CENTURY ENGINEERING

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December 22, 2020

Mr. Andrew Grenzer, Chief
Solid Waste Operations Division
Maryland Department of the Environment
1800 Washington Boulevard
Baltimore, MD 21230

RE: Submittal of the 2020 Second Half Semi-Annual Groundwater Monitoring Report for R.B. Baker & Sons Landfill, Queenstown, MD

Dear Mr. Grenzer,

On behalf of our client, Mr. Theodore R. Baker or R.B. Baker & Sons Rubble Landfill in Queenstown, Maryland, we are submitting one (1) electronic copy of the 2020 Second Half Semi-Annual Groundwater Monitoring Report for the above referenced landfill.

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

Sincerely,

Elizabeth Chandler, E.I.
Engineer II

Cc: Mr. Theodore R. Baker w/encl

5th Election District
QUEEN ANNE'S COUNTY MARYLAND

R.B. Baker & Sons

Second Half 2020 Semi-Annual Groundwater Monitoring Report

December 2020

CEI No. 94063.01

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Transmittal
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I. Background

R. B. Baker & Sons, Inc. has been operating a 12-acre rubble landfill in Queenstown, MD since October 1992. On July 22, 2000, the facility stopped accepting waste material and was shut down. In November of 2000, a new cell was opened for waste acceptance in the 12-acre expansion area. This document will serve as the second semi-annual 2020 monitoring report as required in the refuse disposal permits issued by the Maryland Department of the Environment (MDE). This report covers the monitoring period at the rubble landfill from July 2020 to December 2020.

II. Groundwater Monitoring

Groundwater monitoring at this site has been performed in accordance with the "Groundwater Monitoring Plan" approved by the MDE in January 2017. In accordance with the approved Groundwater Monitoring Plan, wells W-12, W-13, W-14, and W-15 were not sampled as part of the 2nd Half 2020 Groundwater Monitoring Report.

As per direction of MDE, beginning in 2020 surface water sample sites must be tested for dissolved metals as opposed to total metals. Since this directive came after the groundwater monitoring plan was approved by MDE, the methodology is not outlined in the document. For sample collection, an unpreserved container is submerged upside down approximately 1 foot below the water surface. The container is then inverted so the top is facing up and the container is allowed to fill. Approximately 100 ml is poured into vacuum filter units. Vacuum is supplied by a portable peristaltic pump. Nitric acid is added to the filtrate in the filter unit and capped. The filtration used has a nominal pore size of 0.45 microns to ensure accurate estimations of truly dissolved species concentrations are attained. The Pond is the only surface water sample site associated with the R.B. Baker & Sons landfill at present.

A full list of analytes sampled can be found in Appendix D.

III. Methane Monitoring

Beginning in the fourth quarter of 2008 methane monitoring was performed at the landfill according to the "Landfill Gas Management Plan" submitted to the MDE in August 2005 and revised in September 2007. Methane sampling occurs quarterly in January, May, July, and October. The results of these sampling events are included in Appendix I.

IV. Aquifer Properties

Only the unconfined Columbia Aquifer is monitored at the landfill site. The next aquifer below the Columbia Aquifer is the confined Aquia Aquifer, located approximately 150

feet below the unconfined aquifer. The Columbia Aquifer is located from 2 to 20 feet or more below the surface of the landfill site. The aquifer averages approximately 20 feet in thickness and moves in a generally southern direction across the site. Calculations using Darcy's Law indicate that groundwater velocity averages 60 feet per year across the site. Two large excavations expose the groundwater at the site forming spring fed ponds. The ponds are located down-gradient of the landfill.

V. Results from Earlier Tests

Results from groundwater analyses performed from 1990 to the present have yielded results showing significant levels of alkalinity, hardness and chloride in down-gradient and background groundwater samples. Levels of these analytes generally have not exceeded the U.S. Environmental Protection Agency (EPA) Maximum Containment Level (MCL) for drinking water. Mercury, cadmium, chromium and iron have been detected in well samples from both up-gradient and down-gradient wells. Levels of mercury, cadmium, and chromium have typically not exceeded EPA Drinking Water Standards; however, levels of iron have consistently exceeded the MCL in most of the wells sampled. Low levels of some VOCs were detected prior to September 2012 in wells W-3, W-4, W-5, W-10 and W-15 down gradient of the closed cell. All VOC's have been largely absent from the sampling since 2014. The September 2014 sampling event observed VOC's present in wells W-3, W-10, and W-14. All VOC's measured in that event did not exceed their respective MCL's. In September of 2017 W-3 yielded a reading for carbon disulfide. There is no current standard for carbon disulfide, and the concentration has since returned to non-detectable limits. All other wells have remained free of VOC's in recent testing.

VI. Groundwater Analysis Results

Historical Background Water Quality

Historical background water quality is determined from the results of sampling and analysis events from monitoring wells W-11, W-6, W-7 and W-8. Well W-11 is located directly up-gradient of the landfill expansion but is offset to the east of the existing cell. Wells W-6, W-7 and W-8 are located to the east of down-gradient groundwater flow paths from the closed cell. Prior to November 2001, water samples taken from these wells represent the background water quality at the site. Wells W-6, W-7 and W-8 are now compliance or down-gradient wells of the landfill expansion area.

Overall, historical background water quality has been fair to poor. The background water is acidic and moderately hard averaging 5.89 on the pH scale and 66.63 PPM in hardness. Indicator levels remain relatively steady, with only pH and turbidity frequently exceeding MCL. Levels of metals are more varied, with only iron and manganese regularly exceeding MCL. No VOC's have been detected in the background well.

Summary of 2nd Half 2020 Test Results

Background water quality is determined by results from well W-11. Levels of manganese and pH remained above/outside the MCL. All other indicators and metals were found below the MCL. Volatile Organic Compounds were not detected.

Indicators found above/outside the MCL in downgradient wells include pH, total dissolved solids, and turbidity. Levels of pH remain outside of the MCL in all wells except W-3, W-4, and the Pond. Total dissolved solids were observed above MCL only in W-7 and W-10. Turbidity was observed above MCL only in W-6. Wells with indicators above the MCL observed during the second half 2020 sampling have a history of testing above the MCL.

Iron and manganese were the only metals found above the MCL. Manganese, as in previous testing periods, was above the MCL in all wells except W-6, W-9, and the Pond. As in previous testing periods, iron exceeded the MCL in wells W-4, W-5, W-6, and W-8. Cadmium was below the MCL in all wells but has occurred in previous testing periods.

RESULTS OUTSIDE OF MCLs														
	W3	W4	W5	W6	W7	W8	W9	W10	W11 (BG)	W12 *	W13 *	W14 *	W15 *	POND
pH			X	X	X	X	X	X	X					
Iron		X	X	X		X								
Total Dissolved Solids					X			X						
Turbidity				X										
Manganese	X	X	X		X	X		X	X					

*W12, W13, W14, and W15 were not sampled for this report

The iron, pH, and manganese levels found in the compliance wells are typical of the site and are regularly observed in the background well. Over the past seven sampling events, pH levels in the background well have dropped significantly below MCL and are typically lower than all readings observed in compliance wells. The cause of the low pH noted in the background well appears to be migrating towards the compliance wells resulting in low pH readings site wide. It is expected that pH levels in compliance wells will decrease over time as well.

Elevated manganese and iron levels have been observed in the compliance wells and background wells and are likely from background sources. Both iron and manganese are commonly present from weathering of iron and manganese bearing minerals and rocks. The metals are adsorbed by clay and glauconite and desorbed into the groundwater. Manganese and Iron may also be found in shallow groundwater produced by reaction of sediment organic matter with oxyhydroxides. The observed drop in total suspended solids could be attributed to changes in the sampling procedure.

VII. Statistical Analysis

A statistical analysis was performed for each significant analyte that was sampled in the sampling/analysis events. Data from March 30, 2016 to the present was used in the analysis. This data represents the period of sampling performed using low-flow samples and filter sampling in the pond. At the direction of the MDE, data used in the statistical analysis will be reviewed for outliers and potentially erroneous measurements prior to performing the statistical analysis. The analysis was performed using ChemPoint and ChemStat database and statistical analysis software. To determine if there is statistical evidence of contamination from the rubble landfill, results of compliance wells (down-gradient) are compared to results from background wells (up-gradient) using statistical analyses that filter out normal variations in data. This process determines the likelihood that the variations in data between the up-gradient wells and the down-gradient wells are due purely to chance. Data from the site was analyzed using the Kruskal-Wallis Rank Method. The following tables show which wells show a significant probability of contamination from the rubble landfill. Statistical Analysis Data is located in Appendix E.

Indicators

Indicators Showing Significant Likelihood of Contamination from Landfill													
	W3	W4	W5	W6	W7	W8	W9	W10	W12 *	W13 *	W14 *	W15 *	P-1
pH	X	X	X					X					X
Alkalinity	X	X	X					X					X
Hardness	X	X											

*W12, W13, W14, and W15 were not sampled for this report

All of the indicators observed are typical of decomposing rubble landfills. Wells W-3 and W-4 which are immediately down-gradient of the closed cell of the landfill, show a strong likelihood of contamination for multiple indicators. Wells W-5 and W-10, which are further down-gradient and are separated from the cells by sediment ponds, shows less potential contamination. Data for wells W-12, W-13, W-14, and W-15 has not been updated for this sampling event, but will be updated for the first report of 2021. Wells W-6, W-7, W-8, and W-9 show no indication of potential contamination. PH and alkalinity levels in Pond 1 indicate potential contamination.

Metals

Metals Showing Significant Likelihood of Contamination from Landfill													
	W3	W4	W5	W6	W7	W8	W9	W10	W12 *	W13 *	W14 *	W15 *	P-1
Calcium	X	X											
Potassium	X	X											
Zinc					X								

*W12, W13, W14, and W15 were not sampled for this report

Wells W-3 and W-4 demonstrate the highest likelihood of potential contamination, similar to the previously mentioned indicators. However, well W-7 also yielded results indicating potential contamination. These wells are located immediately down-gradient of the landfill. This is the sixth sampling event where W-7 his showing a significant likelihood of contamination for zinc. Calcium and potassium continue to show a high likelihood of contamination; there is a strong indication that there is either low metal loadings from the landfill or that filtering through the sandy aquifer and the sediment ponds is able to reduce metal loadings significantly.

Volatile Organic Compounds (VOCs)

Over the past eleven sampling events, there have been no indications of any VOCs discharged from the landfill. Over the past ten sampling events, there have been no indications of any VOCs discharged from the landfill. In September of 2017 W-3 produced a reading for carbon disulfide (CS2) but has since returned to undetectable levels. There is currently no standard MCL for carbon disulfide. For more information regarding VOC's at this site, refer to current and historical groundwater testing data available in Appendix A and J, respectively. None of the wells indicate potential contamination from benzene, chlorobenzene, 1,4-dichlorobenzene, or MTBE.

VIII. Plume Configurations

Plume configurations for the second half of 2020 were developed for this report and compared to the plumes developed for previous reports. Plume configurations were developed by straight-line interpolation and adjusted to conform to groundwater velocity. Plume maps for the second half of 2020 are included in Appendix F. Plumes were developed for pH, total dissolved solids, turbidity, iron, and manganese.

The apparent movement of the plumes is directly related to the concentrations of analytes in adjacent well samples at the time of testing. Higher concentrations of analytes in compliance wells tend to expand the plume while lower concentrations tend to contract the plume. See Appendix F – Groundwater Contour Maps and Contaminant Plume Maps.

IX. Leachate Collection and Disposal

The following table provides the leachate collected at the site from June 2020 to November 2020. This information is based on records of leachate pumped from the collection facility and properly disposed of at an approved site (Kent Island Waste Water Treatment Plant). A more comprehensive list of leachate readings, including monthly readings and the daily readings during this monitoring period can be found in Appendix H.

Date	Leachate Collected (Gallons)	Total Leachate (Gallons)
January 05 to May 20	-	51,530,500
June 20	330,000	51,860,500
July 20	246,000	52,106,500
August 20	402,000	52,508,500
September 20	558,000	53,066,500
October 20	582,000	53,648,500
November 20	666,000	54,314,500

X. Methane Gas Monitoring

Methane gas readings were taken in January, April, July and October of 2020. Methane levels in all regularly monitored probes and structures were found to be 0%. According to historical methane results, all probes and structures were found to contain 0% methane since April 2018. Based upon the age of the landfill, it is not expected that these levels will increase. For more information, methane gas logs are attached as Appendix I.

XI. Summary

Historical background water quality is determined through analysis of groundwater samples from well W-11. The results of the background water analysis indicate that water in the unconfined aquifer is generally poor in quality and spatially variable. The water is low in pH (acidic), moderately hard, and has levels of manganese in exceedance of MCL. Concentrations of iron are often high across the entire site including in the background well. However, in recent sampling events the iron content in the background well has remained below MCL.

Typically, the water quality of the compliance wells shows evidence of possible contamination when compared to that of the background well. Statistical analyses of the data indicate that there are possible impacts on groundwater pH, specific conductivity, alkalinity, hardness, total dissolved solids, sulfate, calcium, manganese, and potassium from the rubble landfill.

Methane gas currently does not appear to migrate from the landfill. Methane was not measured in any of the gas probes or monitored structures which is typical throughout the site according to historical data. Due to the age of the closed cell, it is not expected that methane levels will increase.

XII. Conclusions

Recent groundwater monitoring for the R.B. Baker and Sons landfill has shown that groundwater quality downstream of the landfill is consistently similar to groundwater quality upstream of the landfill. The isolated exceedances in compliance wells that do not appear in the background wells are increasingly rare and are typically confined to

immediately down-gradient wells. This indicates that contaminants from the landfill are decreasing when compared to historical monitoring results. Methane gas monitoring continued to show no significant concentration of methane gas in any of the probes or structures. It is expected that the impact on groundwater from the landfill will continue to decline with time.

APPENDIX A

SUMMARY OF ANALYSIS RESULTS

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-3

Analyte	Units	MCL	SA-18	SA-19
Indicators			**03/30/20**	**09/29/20**
pH	units	6.5-8.5	6.71	6.59
Alkalinity	PPM	NS	280	260
Chloride	PPM	250	21	32
Total Dissolved Solids	PPM	500	350	380
Hardness	PPM	NS	270	300
Turbidity	NTU	15	<5	<5
Nitrate Nitrogen	PPM	10	0.18	0.09
Sulfate	PPM	250	16	15
Specific Conductance	umhos/cm	NS	578	393
Chemical Oxygen Demand	PPM	NS	17	21
Ammonia Nitrogen	PPM	NS	<0.2	<0.2
Metals	**Units**	**MCL**		
Antimony	PPB	6	<5	<5
Arsenic	PPB	10	<2	<2
Barium	PPB	2,000	95	87
Beryllium	PPB	4	<2	<2
Cadmium	PPB	5	<2	<2
Calcium	PPB	NS	81,700	79,500
Chromium	PPB	100	<2	<2
Cobalt	PPB	NS	3	3
Copper	PPB	1,300	3	<2
Iron	PPB	300	155	285
Lead	PPB	15	<2	<2
Magnesium	PPB	NS	17,400	17,300
Manganese	PPB	50	***3,210***	***3,140***
Mercury	PPB	2	<0.5	<0.5
Nickel	PPB	NS	2	<2
Potassium	PPB	NS	5,530	5,250
Selenium	PPB	50	<5	<5
Silver	PPB	100	<2	<2
Sodium	PPB	NS	18,500	17,600
Thallium	PPB	2	<2	<2
Vanadium	PPB	NS	<2	<2
Zinc	PPB	5,000	<20	<20
Volatile Organic Compounds	**Units**	**MCL**		
Acetone	PPB	NS	ND	ND
Acrylonitrile	PPB	NS	ND	ND
Benzene	PPB	5	ND	ND
Bromochloromethane	PPB	NS	ND	ND
Bromodichloromethane	PPB	100	ND	ND
Bromoform	PPB	100	ND	ND
Bromomethane	PPB	NS	ND	ND
2-Butanone	PPB	NS	ND	ND
Carbon disulfide	PPB	NS	ND	ND
Carbon tetrachloride	PPB	5	ND	ND
Chlorobenzene	PPB	100	ND	ND
Chloroethane	PPB	NS	ND	ND
Choroform	PPB	NS	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-3

Analyte	Units	MCL	SA-18	SA-19
Volatile Organic Compounds Cont.			**03/30/20**	**09/29/20**
Chloromethane	PPB	NS	ND	ND
Dibromochloromethane	PPB	NS	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND
Dibromomethane	PPB	NS	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND
Ethylbenzene	PPB	700	ND	ND
2-Hexanone	PPB	NS	ND	ND
Iodomethane	PPB	NS	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND
Styrene	PPB	100	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND
Tetrachloroethene	PPB	NS	ND	ND
Toluene	PPB	1,000	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND
Trichloroethene	PPB	5	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND
Vinyl acetate	PPB	NS	ND	ND
Vinyl chloride	PPB	2	ND	ND
Xylene (Total)	PPB	10,000	ND	ND
Total VOCs	PPB	-	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-4

Analyte	Units	MCL	SA-18	SA-19
Indicators			**03/30/20**	**09/29/20**
pH	units	6.5-8.5	7.02	6.76
Alkalinity	PPM	NS	140	180
Chloride	PPM	250	3.6	2.6
Total Dissolved Solids	PPM	500	250	200
Hardness	PPM	NS	180	210
Turbidity	NTU	15	9.30	<5
Nitrate Nitrogen	PPM	10	0.08	0.06
Sulfate	PPM	250	44	18
Specific Conductance	umhos/cm	NS	365	245
Chemical Oxygen Demand	PPM	NS	15	16
Ammonia Nitrogen	PPM	NS	<0.2	<0.2
Metals	**Units**	**MCL**		
Antimony	PPB	6	<5	<5
Arsenic	PPB	10	<2	<2
Barium	PPB	2,000	48	48
Beryllium	PPB	4	<2	<2
Cadmium	PPB	5	<2	<2
Calcium	PPB	NS	50,400	50,000
Chromium	PPB	100	<2	<2
Cobalt	PPB	NS	<2	<2
Copper	PPB	1,300	<2	<2
Iron	PPB	300	***2,120***	***1,770***
Lead	PPB	15	<2	<2
Magnesium	PPB	NS	14,800	14,300
Manganese	PPB	50	***3,900***	***211***
Mercury	PPB	2	<0.5	<0.5
Nickel	PPB	NS	<2	<2
Potassium	PPB	NS	27,500	2,850
Selenium	PPB	50	<5	<5
Silver	PPB	100	<2	<2
Sodium	PPB	NS	4,890	4,140
Thallium	PPB	2	<2	<2
Vanadium	PPB	NS	<2	<2
Zinc	PPB	5,000	<20	<20
Volatile Organic Compounds	**Units**	**MCL**		
Acetone	PPB	NS	ND	ND
Acrylonitrile	PPB	NS	ND	ND
Benzene	PPB	5	ND	ND
Bromochloromethane	PPB	NS	ND	ND
Bromodichloromethane	PPB	100	ND	ND
Bromoform	PPB	100	ND	ND
Bromomethane	PPB	NS	ND	ND
2-Butanone	PPB	NS	ND	ND
Carbon disulfide	PPB	NS	ND	ND
Carbon tetrachloride	PPB	5	ND	ND
Chlorobenzene	PPB	100	ND	ND
Chloroethane	PPB	NS	ND	ND
Choroform	PPB	NS	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-4

Analyte	Units	MCL	SA-18	SA-19
Volatile Organic Compounds Cont.			**03/30/20**	**09/29/20**
Chloromethane	PPB	NS	ND	ND
Dibromochloromethane	PPB	NS	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND
Dibromomethane	PPB	NS	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND
Ethylbenzene	PPB	700	ND	ND
2-Hexanone	PPB	NS	ND	ND
Iodomethane	PPB	NS	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND
Styrene	PPB	100	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND
Tetrachloroethene	PPB	NS	ND	ND
Toluene	PPB	1,000	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND
Trichloroethene	PPB	5	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND
Vinyl acetate	PPB	NS	ND	ND
Vinyl chloride	PPB	2	ND	ND
Xylene (Total)	PPB	10,000	ND	ND
Total VOCs	PPB	-	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-5

Analyte	Units	MCL	SA-18	SA-19
Indicators			**03/30/20**	**09/29/20**
pH	units	6.5-8.5	***5.47***	***6.43***
Alkalinity	PPM	NS	40	260
Chloride	PPM	250	7.3	35
Total Dissolved Solids	PPM	500	210	460
Hardness	PPM	NS	110	310
Turbidity	NTU	15	15.0	<5
Nitrate Nitrogen	PPM	10	0.21	0.07
Sulfate	PPM	250	94	100
Specific Conductance	umhos/cm	NS	284	504
Chemical Oxygen Demand	PPM	NS	12	31
Ammonia Nitrogen	PPM	NS	<0.2	2.1
Metals	**Units**	**MCL**		
Antimony	PPB	6	<5	<5
Arsenic	PPB	10	<2	<2
Barium	PPB	2,000	105	117
Beryllium	PPB	4	<2	<2
Cadmium	PPB	5	<2	<2
Calcium	PPB	NS	16,000	79,600
Chromium	PPB	100	<2	<2
Cobalt	PPB	NS	10	5
Copper	PPB	1,300	<2	<2
Iron	PPB	300	***1,800***	***1,040***
Lead	PPB	15	3	<2
Magnesium	PPB	NS	11,400	21,400
Manganese	PPB	50	***443***	***1,660***
Mercury	PPB	2	<0.5	<0.5
Nickel	PPB	NS	8	5
Potassium	PPB	NS	22,500	4,300
Selenium	PPB	50	<5	<5
Silver	PPB	100	<2	<2
Sodium	PPB	NS	16,800	41,600
Thallium	PPB	2	<2	<2
Vanadium	PPB	NS	<2	<2
Zinc	PPB	5,000	22	<20
Volatile Organic Compounds	**Units**	**MCL**		
Acetone	PPB	NS	ND	ND
Acrylonitrile	PPB	NS	ND	ND
Benzene	PPB	5	ND	ND
Bromochloromethane	PPB	NS	ND	ND
Bromodichloromethane	PPB	100	ND	ND
Bromoform	PPB	100	ND	ND
Bromomethane	PPB	NS	ND	ND
2-Butanone	PPB	NS	ND	ND
Carbon disulfide	PPB	NS	ND	ND
Carbon tetrachloride	PPB	5	ND	ND
Chlorobenzene	PPB	100	ND	ND
Chloroethane	PPB	NS	ND	ND
Choroform	PPB	NS	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-5

Analyte	Units	MCL	SA-18	SA-19
Volatile Organic Compounds Cont.			**03/30/20**	**09/29/20**
Chloromethane	PPB	NS	ND	ND
Dibromochloromethane	PPB	NS	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND
Dibromomethane	PPB	NS	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND
Ethylbenzene	PPB	700	ND	ND
2-Hexanone	PPB	NS	ND	ND
Iodomethane	PPB	NS	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND
Styrene	PPB	100	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND
Tetrachloroethene	PPB	NS	ND	ND
Toluene	PPB	1,000	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND
Trichloroethene	PPB	5	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND
Vinyl acetate	PPB	NS	ND	ND
Vinyl chloride	PPB	2	ND	ND
Xylene (Total)	PPB	10,000	ND	ND
Total VOCs	PPB	-	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-6

Analyte	Units	MCL	SA-18	SA-19
Indicators			**03/30/20**	**09/29/20**
pH	units	6.5-8.5	***4.80***	***4.56***
Alkalinity	PPM	NS	<20	<20
Chloride	PPM	250	13	18
Total Dissolved Solids	PPM	500	38	270
Hardness	PPM	NS	52	60
Turbidity	NTU	15	10.9	***25.50***
Nitrate Nitrogen	PPM	10	0.32	0.31
Sulfate	PPM	250	19	20
Specific Conductance	umhos/cm	NS	113	75
Chemical Oxygen Demand	PPM	NS	<10	<10
Ammonia Nitrogen	PPM	NS	<0.2	<2
Metals	**Units**	**MCL**		
Antimony	PPB	6	<5	<5
Arsenic	PPB	10	<2	<2
Barium	PPB	2,000	36	38
Beryllium	PPB	4	<2	<2
Cadmium	PPB	5	<2	<2
Calcium	PPB	NS	4,250	4,990
Chromium	PPB	100	<2	2
Cobalt	PPB	NS	<2	<2
Copper	PPB	1,300	8	<2
Iron	PPB	300	***1,119***	***1,790***
Lead	PPB	15	<2	<2
Magnesium	PPB	NS	2,560	2,360
Manganese	PPB	50	11	18
Mercury	PPB	2	<0.5	<0.5
Nickel	PPB	NS	3	3
Potassium	PPB	NS	1,280	1,290
Selenium	PPB	50	<5	<5
Silver	PPB	100	<2	<2
Sodium	PPB	NS	8,443	10,100
Thallium	PPB	2	<2	<2
Vanadium	PPB	NS	<2	<2
Zinc	PPB	5,000	20	22
Volatile Organic Compounds	**Units**	**MCL**		
Acetone	PPB	NS	ND	ND
Acrylonitrile	PPB	NS	ND	ND
Benzene	PPB	5	ND	ND
Bromochloromethane	PPB	NS	ND	ND
Bromodichloromethane	PPB	100	ND	ND
Bromoform	PPB	100	ND	ND
Bromomethane	PPB	NS	ND	ND
2-Butanone	PPB	NS	ND	ND
Carbon disulfide	PPB	NS	ND	ND
Carbon tetrachloride	PPB	5	ND	ND
Chlorobenzene	PPB	100	ND	ND
Chloroethane	PPB	NS	ND	ND
Choroform	PPB	NS	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-6

Analyte	Units	MCL	SA-18	SA-19
Volatile Organic Compounds Cont.			**03/30/20**	**09/29/20**
Chloromethane	PPB	NS	ND	ND
Dibromochloromethane	PPB	NS	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND
Dibromomethane	PPB	NS	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND
Ethylbenzene	PPB	700	ND	ND
2-Hexanone	PPB	NS	ND	ND
Iodomethane	PPB	NS	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND
Styrene	PPB	100	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND
Tetrachloroethene	PPB	NS	ND	ND
Toluene	PPB	1,000	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND
Trichloroethene	PPB	5	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND
Vinyl acetate	PPB	NS	ND	ND
Vinyl chloride	PPB	2	ND	ND
Xylene (Total)	PPB	10,000	ND	ND
Total VOCs	PPB	-	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-7

Analyte	Units	MCL	SA-18	SA-19
Indicators			**03/30/20**	**09/29/20**
pH	units	6.5-8.5	***5.89***	***5.82***
Alkalinity	PPM	NS	80	62
Chloride	PPM	250	55	59
Total Dissolved Solids	PPM	500	490	***630***
Hardness	PPM	NS	280	240
Turbidity	NTU	15	<5	<5
Nitrate Nitrogen	PPM	10	0.42	0.17
Sulfate	PPM	250	250	230
Specific Conductance	umhos/cm	NS	757	472
Chemical Oxygen Demand	PPM	NS	23	16
Ammonia Nitrogen	PPM	NS	<0.2	<0.2
Metals	**Units**	**MCL**		
Antimony	PPB	6	<5	<5
Arsenic	PPB	10	<2	<2
Barium	PPB	2,000	52	42
Beryllium	PPB	4	2	3
Cadmium	PPB	5	<2	<2
Calcium	PPB	NS	60,100	47,000
Chromium	PPB	100	<2	<2
Cobalt	PPB	NS	54	78
Copper	PPB	1,300	2	3
Iron	PPB	300	<50	134
Lead	PPB	15	<2	<2
Magnesium	PPB	NS	30,200	28,000
Manganese	PPB	50	***176***	***234***
Mercury	PPB	2	<0.5	<0.5
Nickel	PPB	NS	82	112
Potassium	PPB	NS	443	1,080
Selenium	PPB	50	<5	<5
Silver	PPB	100	<2	<2
Sodium	PPB	NS	52,200	48,500
Thallium	PPB	2	<2	<2
Vanadium	PPB	NS	<2	<2
Zinc	PPB	5,000	81	105
Volatile Organic Compounds	**Units**	**MCL**		
Acetone	PPB	NS	ND	ND
Acrylonitrile	PPB	NS	ND	ND
Benzene	PPB	5	ND	ND
Bromochloromethane	PPB	NS	ND	ND
Bromodichloromethane	PPB	100	ND	ND
Bromoform	PPB	100	ND	ND
Bromomethane	PPB	NS	ND	ND
2-Butanone	PPB	NS	ND	ND
Carbon disulfide	PPB	NS	ND	ND
Carbon tetrachloride	PPB	5	ND	ND
Chlorobenzene	PPB	100	ND	ND
Chloroethane	PPB	NS	ND	ND
Choroform	PPB	NS	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-7

Analyte	Units	MCL	SA-18	SA-19
Volatile Organic Compounds Cont.			**03/30/20**	**09/29/20**
Chloromethane	PPB	NS	ND	ND
Dibromochloromethane	PPB	NS	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND
Dibromomethane	PPB	NS	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND
Ethylbenzene	PPB	700	ND	ND
2-Hexanone	PPB	NS	ND	ND
Iodomethane	PPB	NS	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND
Styrene	PPB	100	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND
Tetrachloroethene	PPB	NS	ND	ND
Toluene	PPB	1,000	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND
Trichloroethene	PPB	5	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND
Vinyl acetate	PPB	NS	ND	ND
Vinyl chloride	PPB	2	ND	ND
Xylene (Total)	PPB	10,000	ND	ND
Total VOCs	PPB	-	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-8

Analyte	Units	MCL	SA-18	SA-19
Indicators			**03/30/20**	**09/29/20**
pH	units	6.5-8.5	***4.89***	***5.49***
Alkalinity	PPM	NS	20	<20
Chloride	PPM	250	<1	1.6
Total Dissolved Solids	PPM	500	61	160
Hardness	PPM	NS	40	48
Turbidity	NTU	15	7.4	<5
Nitrate Nitrogen	PPM	10	<0.05	<0.05
Sulfate	PPM	250	14	<10
Specific Conductance	umhos/cm	NS	62	29
Chemical Oxygen Demand	PPM	NS	<10	<10
Ammonia Nitrogen	PPM	NS	<0.2	<0.2
Metals	**Units**	**MCL**		
Antimony	PPB	6	<5	<5
Arsenic	PPB	10	<2	<2
Barium	PPB	2,000	50	26
Beryllium	PPB	4	<2	<2
Cadmium	PPB	5	<2	<2
Calcium	PPB	NS	4,750	3,420
Chromium	PPB	100	<2	<2
Cobalt	PPB	NS	7	8
Copper	PPB	1,300	<2	<2
Iron	PPB	300	***853***	***2,780***
Lead	PPB	15	<2	<2
Magnesium	PPB	NS	1,180	868
Manganese	PPB	50	***355***	***293***
Mercury	PPB	2	<0.5	<0.5
Nickel	PPB	NS	10	5
Potassium	PPB	NS	506	569
Selenium	PPB	50	<5	<5
Silver	PPB	100	<2	<2
Sodium	PPB	NS	1,090	1,150
Thallium	PPB	2	<2	<2
Vanadium	PPB	NS	<2	<2
Zinc	PPB	5,000	28	<20
Volatile Organic Compounds	**Units**	**MCL**		
Acetone	PPB	NS	ND	ND
Acrylonitrile	PPB	NS	ND	ND
Benzene	PPB	5	ND	ND
Bromochloromethane	PPB	NS	ND	ND
Bromodichloromethane	PPB	100	ND	ND
Bromoform	PPB	100	ND	ND
Bromomethane	PPB	NS	ND	ND
2-Butanone	PPB	NS	ND	ND
Carbon disulfide	PPB	NS	ND	ND
Carbon tetrachloride	PPB	5	ND	ND
Chlorobenzene	PPB	100	ND	ND
Chloroethane	PPB	NS	ND	ND
Choroform	PPB	NS	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-8

Analyte	Units	MCL	SA-18	SA-19
Volatile Organic Compounds Cont.			**03/30/20**	**09/29/20**
Chloromethane	PPB	NS	ND	ND
Dibromochloromethane	PPB	NS	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND
Dibromomethane	PPB	NS	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND
Ethylbenzene	PPB	700	ND	ND
2-Hexanone	PPB	NS	ND	ND
Iodomethane	PPB	NS	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND
Styrene	PPB	100	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND
Tetrachloroethene	PPB	NS	ND	ND
Toluene	PPB	1,000	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND
Trichloroethene	PPB	5	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND
Vinyl acetate	PPB	NS	ND	ND
Vinyl chloride	PPB	2	ND	ND
Xylene (Total)	PPB	10,000	ND	ND
Total VOCs	PPB	-	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-9

Analyte	Units	MCL	SA-18	SA-19
Indicators			**03/30/20**	**09/29/20**
pH	units	6.5-8.5	***5.34***	***5.23***
Alkalinity	PPM	NS	32	25
Chloride	PPM	250	31	35
Total Dissolved Solids	PPM	500	180	380
Hardness	PPM	NS	110	130
Turbidity	NTU	15	<5	<5
Nitrate Nitrogen	PPM	10	0.47	0.24
Sulfate	PPM	250	57	81
Specific Conductance	umhos/cm	NS	292	210
Chemical Oxygen Demand	PPM	NS	12	<10
Ammonia Nitrogen	PPM	NS	<0.2	<0.2
Metals	**Units**	**MCL**		
Antimony	PPB	6	<5	<5
Arsenic	PPB	10	<2	<2
Barium	PPB	2,000	68	76
Beryllium	PPB	4	<2	<2
Cadmium	PPB	5	<2	<2
Calcium	PPB	NS	32,500	37,400
Chromium	PPB	100	<2	<2
Cobalt	PPB	NS	<2	<2
Copper	PPB	1,300	<2	<2
Iron	PPB	300	<50	<50
Lead	PPB	15	<2	<2
Magnesium	PPB	NS	3,980	4,520
Manganese	PPB	50	12	14
Mercury	PPB	2	<0.5	1.9
Nickel	PPB	NS	4	4
Potassium	PPB	NS	3,120	3,360
Selenium	PPB	50	<5	<5
Silver	PPB	100	<2	<2
Sodium	PPB	NS	11,400	13,000
Thallium	PPB	2	<2	<2
Vanadium	PPB	NS	<2	<2
Zinc	PPB	5,000	<20	<20
Volatile Organic Compounds	**Units**	**MCL**		
Acetone	PPB	NS	ND	ND
Acrylonitrile	PPB	NS	ND	ND
Benzene	PPB	5	ND	ND
Bromochloromethane	PPB	NS	ND	ND
Bromodichloromethane	PPB	100	ND	ND
Bromoform	PPB	100	ND	ND
Bromomethane	PPB	NS	ND	ND
2-Butanone	PPB	NS	ND	ND
Carbon disulfide	PPB	NS	ND	ND
Carbon tetrachloride	PPB	5	ND	ND
Chlorobenzene	PPB	100	ND	ND
Chloroethane	PPB	NS	ND	ND
Choroform	PPB	NS	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-9

Analyte	Units	MCL	SA-18	SA-19
Volatile Organic Compounds Cont.			**03/30/20**	**09/29/20**
Chloromethane	PPB	NS	ND	ND
Dibromochloromethane	PPB	NS	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND
Dibromomethane	PPB	NS	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND
Ethylbenzene	PPB	700	ND	ND
2-Hexanone	PPB	NS	ND	ND
Iodomethane	PPB	NS	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND
Styrene	PPB	100	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND
Tetrachloroethene	PPB	NS	ND	ND
Toluene	PPB	1,000	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND
Trichloroethene	PPB	5	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND
Vinyl acetate	PPB	NS	ND	ND
Vinyl chloride	PPB	2	ND	ND
Xylene (Total)	PPB	10,000	ND	ND
Total VOCs	PPB	-	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-10

Analyte	Units	MCL	SA-18	SA-19
Indicators			**03/30/20**	**09/29/20**
pH	units	6.5-8.5	***6.20***	***6.20***
Alkalinity	PPM	NS	64	100
Chloride	PPM	250	29	65
Total Dissolved Solids	PPM	500	300	***570***
Hardness	PPM	NS	200	280
Turbidity	NTU	15	<5	<5
Nitrate Nitrogen	PPM	10	0.27	0.10
Sulfate	PPM	250	180	210
Specific Conductance	umhos/cm	NS	534	482
Chemical Oxygen Demand	PPM	NS	12	21
Ammonia Nitrogen	PPM	NS	<0.2	<0.2
Metals	**Units**	**MCL**		
Antimony	PPB	6	<5	<5
Arsenic	PPB	10	<2	<2
Barium	PPB	2,000	76	120
Beryllium	PPB	4	<2	<2
Cadmium	PPB	5	<2	<2
Calcium	PPB	NS	61,000	76,600
Chromium	PPB	100	<2	<2
Cobalt	PPB	NS	<2	3
Copper	PPB	1,300	<2	<2
Iron	PPB	300	52	230
Lead	PPB	15	<2	<2
Magnesium	PPB	NS	15,300	17,800
Manganese	PPB	50	***69***	***2,750***
Mercury	PPB	2	<0.5	<0.5
Nickel	PPB	NS	<2	6
Potassium	PPB	NS	2,190	3,760
Selenium	PPB	50	<5	<5
Silver	PPB	100	<2	<2
Sodium	PPB	NS	23,400	41,900
Thallium	PPB	2	<2	<2
Vanadium	PPB	NS	<2	<2
Zinc	PPB	5,000	<20	<20
Volatile Organic Compounds	**Units**	**MCL**		
Acetone	PPB	NS	ND	ND
Acrylonitrile	PPB	NS	ND	ND
Benzene	PPB	5	ND	ND
Bromochloromethane	PPB	NS	ND	ND
Bromodichloromethane	PPB	100	ND	ND
Bromoform	PPB	100	ND	ND
Bromomethane	PPB	NS	ND	ND
2-Butanone	PPB	NS	ND	ND
Carbon disulfide	PPB	NS	ND	ND
Carbon tetrachloride	PPB	5	ND	ND
Chlorobenzene	PPB	100	ND	ND
Chloroethane	PPB	NS	ND	ND
Choroform	PPB	NS	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-10

Analyte	Units	MCL	SA-18	SA-19
Volatile Organic Compounds Cont.			**03/30/20**	**09/29/20**
Chloromethane	PPB	NS	ND	ND
Dibromochloromethane	PPB	NS	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND
Dibromomethane	PPB	NS	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND
Ethylbenzene	PPB	700	ND	ND
2-Hexanone	PPB	NS	ND	ND
Iodomethane	PPB	NS	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND
Styrene	PPB	100	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND
Tetrachloroethene	PPB	NS	ND	ND
Toluene	PPB	1,000	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND
Trichloroethene	PPB	5	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND
Vinyl acetate	PPB	NS	ND	ND
Vinyl chloride	PPB	2	ND	ND
Xylene (Total)	PPB	10,000	ND	ND
Total VOCs	PPB	-	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-11

Analyte	Units	MCL	SA-18	SA-19
Indicators			**03/30/20**	**09/29/20**
pH	units	6.5-8.5	***4.49***	***4.49***
Alkalinity	PPM	NS	<20	<20
Chloride	PPM	250	70	65
Total Dissolved Solids	PPM	500	200	270
Hardness	PPM	NS	84	100
Turbidity	NTU	15	6.5	<5
Nitrate Nitrogen	PPM	10	0.17	0.06
Sulfate	PPM	250	75	86
Specific Conductance	umhos/cm	NS	412	260
Chemical Oxygen Demand	PPM	NS	15	<10
Ammonia Nitrogen	PPM	NS	<0.2	<0.2
Metals	**Units**	**MCL**		
Antimony	PPB	6	<5	<5
Arsenic	PPB	10	<2	<2
Barium	PPB	2,000	64	450
Beryllium	PPB	4	<2	<2
Cadmium	PPB	5	<2	<2
Calcium	PPB	NS	13,100	9,270
Chromium	PPB	100	<2	<2
Cobalt	PPB	NS	9	9
Copper	PPB	1,300	<2	<2
Iron	PPB	300	***1,200***	136
Lead	PPB	15	<2	<2
Magnesium	PPB	NS	11,900	9,620
Manganese	PPB	50	***154***	***145***
Mercury	PPB	2	<0.5	<0.5
Nickel	PPB	NS	4	3
Potassium	PPB	NS	1,840	1,820
Selenium	PPB	50	<5	<5
Silver	PPB	100	<2	<2
Sodium	PPB	NS	44,000	45,400
Thallium	PPB	2	<2	<2
Vanadium	PPB	NS	<2	<2
Zinc	PPB	5,000	<20	<20
Volatile Organic Compounds	**Units**	**MCL**		
Acetone	PPB	NS	ND	ND
Acrylonitrile	PPB	NS	ND	ND
Benzene	PPB	5	ND	ND
Bromochloromethane	PPB	NS	ND	ND
Bromodichloromethane	PPB	100	ND	ND
Bromoform	PPB	100	ND	ND
Bromomethane	PPB	NS	ND	ND
2-Butanone	PPB	NS	ND	ND
Carbon disulfide	PPB	NS	ND	ND
Carbon tetrachloride	PPB	5	ND	ND
Chlorobenzene	PPB	100	ND	ND
Chloroethane	PPB	NS	ND	ND
Choroform	PPB	NS	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-11

Analyte	Units	MCL	SA-18	SA-19
Volatile Organic Compounds Cont.			**03/30/20**	**09/29/20**
Chloromethane	PPB	NS	ND	ND
Dibromochloromethane	PPB	NS	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND
Dibromomethane	PPB	NS	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND
Ethylbenzene	PPB	700	ND	ND
2-Hexanone	PPB	NS	ND	ND
Iodomethane	PPB	NS	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND
Styrene	PPB	100	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND
Tetrachloroethene	PPB	NS	ND	ND
Toluene	PPB	1,000	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND
Trichloroethene	PPB	5	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND
Vinyl acetate	PPB	NS	ND	ND
Vinyl chloride	PPB	2	ND	ND
Xylene (Total)	PPB	10,000	ND	ND
Total VOCs	PPB	-	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-12

Analyte	Units	MCL	SA-18	SA-19
Indicators			**03/31/20**	**09/29/20**
pH	units	6.5-8.5	7.57	NT
Alkalinity	PPM	NS	150	NT
Chloride	PPM	250	35	NT
Total Dissolved Solids	PPM	500	300	NT
Hardness	PPM	NS	190	NT
Turbidity	NTU	15	<5	NT
Nitrate Nitrogen	PPM	10	0.27	NT
Sulfate	PPM	250	22	NT
Specific Conductance	umhos/cm	NS	429	NT
Chemical Oxygen Demand	PPM	NS	12	NT
Ammonia Nitrogen	PPM	NS	<0.2	NT
Metals	**Units**	**MCL**		
Antimony	PPB	6	<5	NT
Arsenic	PPB	10	3	NT
Barium	PPB	2,000	60	NT
Beryllium	PPB	4	<2	NT
Cadmium	PPB	5	<2	NT
Calcium	PPB	NS	70,900	NT
Chromium	PPB	100	<2	NT
Cobalt	PPB	NS	<2	NT
Copper	PPB	1,300	<2	NT
Iron	PPB	300	<50	NT
Lead	PPB	15	<2	NT
Magnesium	PPB	NS	3,230	NT
Manganese	PPB	50	4	NT
Mercury	PPB	2	<0.5	NT
Nickel	PPB	NS	<2	NT
Potassium	PPB	NS	1,690	NT
Selenium	PPB	50	<5	NT
Silver	PPB	100	<2	NT
Sodium	PPB	NS	10,700	NT
Thallium	PPB	2	<2	NT
Vanadium	PPB	NS	<2	NT
Zinc	PPB	5,000	<20	NT
Volatile Organic Compounds	**Units**	**MCL**		
Acetone	PPB	NS	ND	NT
Acrylonitrile	PPB	NS	ND	NT
Benzene	PPB	5	ND	NT
Bromochloromethane	PPB	NS	ND	NT
Bromodichloromethane	PPB	100	ND	NT
Bromoform	PPB	100	ND	NT
Bromomethane	PPB	NS	ND	NT
2-Butanone	PPB	NS	ND	NT
Carbon disulfide	PPB	NS	ND	NT
Carbon tetrachloride	PPB	5	ND	NT
Chlorobenzene	PPB	100	ND	NT
Chloroethane	PPB	NS	ND	NT
Choroform	PPB	NS	ND	NT

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-12

Analyte	Units	MCL	SA-18	SA-19
Volatile Organic Compounds Cont.			**03/30/20**	**09/29/20**
Chloromethane	PPB	NS	ND	NT
Dibromochloromethane	PPB	NS	ND	NT
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	NT
1,2-Dibromoethane	PPB	NS	ND	NT
Dibromomethane	PPB	NS	ND	NT
1,2-Dichlorobenzene	PPB	600	ND	NT
1,4-Dichlorobenzene	PPB	75	ND	NT
trans-1,4-Dichloro-2-butene	PPB	NS	ND	NT
1,1-Dichloroethane	PPB	NS	ND	NT
1,2-Dichloroethane	PPB	5	ND	NT
1,1-Dichloroethene	PPB	7	ND	NT
cis-1,2,-Dichloroethene	PPB	70	ND	NT
trans-1,2-Dichloroethene	PPB	100	ND	NT
Methylene chloride/Dichloromethane	PPB	5	ND	NT
1,2-Dichloropropane	PPB	5	ND	NT
trans-1,3-Dichloropropene	PPB	NS	ND	NT
cis-1,3-Dichloropropene	PPB	NS	ND	NT
Ethylbenzene	PPB	700	ND	NT
2-Hexanone	PPB	NS	ND	NT
Iodomethane	PPB	NS	ND	NT
4-Methyl-2-pentanone	PPB	NS	ND	NT
Methyl-t-butyl ether	PPB	70	ND	NT
Styrene	PPB	100	ND	NT
1,1,1,2-Tetrachloroethane	PPB	NS	ND	NT
1,1,2,2-Tetrachloroethane	PPB	NS	ND	NT
Tetrachloroethene	PPB	NS	ND	NT
Toluene	PPB	1,000	ND	NT
1,1,1-Trichloroethane	PPB	200	ND	NT
1,1,2-Trichloroethane	PPB	5	ND	NT
Trichloroethene	PPB	5	ND	NT
Trichlorofluoromethane	PPB	NS	ND	NT
1,2,3-Trichloropropane	PPB	NS	ND	NT
Vinyl acetate	PPB	NS	ND	NT
Vinyl chloride	PPB	2	ND	NT
Xylene (Total)	PPB	10,000	ND	NT
Total VOCs	PPB	-	ND	**ND**

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-13

Analyte	Units	MCL	SA-18	SA-19
Indicators			**03/31/20**	**09/29/20**
pH	units	6.5-8.5	7.39	NT
Alkalinity	PPM	NS	170	NT
Chloride	PPM	250	20	NT
Total Dissolved Solids	PPM	500	300	NT
Hardness	PPM	NS	160	NT
Turbidity	NTU	15	11.8	NT
Nitrate Nitrogen	PPM	10	0.26	NT
Sulfate	PPM	250	13	NT
Specific Conductance	umhos/cm	NS	401	NT
Chemical Oxygen Demand	PPM	NS	10	NT
Ammonia Nitrogen	PPM	NS	0.6	NT
Metals	**Units**	**MCL**		
Antimony	PPB	6	<5	NT
Arsenic	PPB	10	<2	NT
Barium	PPB	2,000	53	NT
Beryllium	PPB	4	<2	NT
Cadmium	PPB	5	<2	NT
Calcium	PPB	NS	37,100	NT
Chromium	PPB	100	<2	NT
Cobalt	PPB	NS	<2	NT
Copper	PPB	1,300	<2	NT
Iron	PPB	300	***1,170***	NT
Lead	PPB	15	<2	NT
Magnesium	PPB	NS	10,900	NT
Manganese	PPB	50	***915***	NT
Mercury	PPB	2	<0.5	NT
Nickel	PPB	NS	<2	NT
Potassium	PPB	NS	4,990	NT
Selenium	PPB	50	<5	NT
Silver	PPB	100	<2	NT
Sodium	PPB	NS	28,800	NT
Thallium	PPB	2	<2	NT
Vanadium	PPB	NS	<2	NT
Zinc	PPB	5,000	<20	NT
Volatile Organic Compounds	**Units**	**MCL**		
Acetone	PPB	NS	ND	NT
Acrylonitrile	PPB	NS	ND	NT
Benzene	PPB	5	ND	NT
Bromochloromethane	PPB	NS	ND	NT
Bromodichloromethane	PPB	100	ND	NT
Bromoform	PPB	100	ND	NT
Bromomethane	PPB	NS	ND	NT
2-Butanone	PPB	NS	ND	NT
Carbon disulfide	PPB	NS	ND	NT
Carbon tetrachloride	PPB	5	ND	NT
Chlorobenzene	PPB	100	ND	NT
Chloroethane	PPB	NS	ND	NT
Choroform	PPB	NS	ND	NT

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-13

Analyte	Units	MCL	SA-18	SA-19
Volatile Organic Compounds Cont.			**03/30/20**	**09/29/20**
Chloromethane	PPB	NS	ND	NT
Dibromochloromethane	PPB	NS	ND	NT
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	NT
1,2-Dibromoethane	PPB	NS	ND	NT
Dibromomethane	PPB	NS	ND	NT
1,2-Dichlorobenzene	PPB	600	ND	NT
1,4-Dichlorobenzene	PPB	75	ND	NT
trans-1,4-Dichloro-2-butene	PPB	NS	ND	NT
1,1-Dichloroethane	PPB	NS	ND	NT
1,2-Dichloroethane	PPB	5	ND	NT
1,1-Dichloroethene	PPB	7	ND	NT
cis-1,2,-Dichloroethene	PPB	70	ND	NT
trans-1,2-Dichloroethene	PPB	100	ND	NT
Methylene chloride/Dichloromethane	PPB	5	ND	NT
1,2-Dichloropropane	PPB	5	ND	NT
trans-1,3-Dichloropropene	PPB	NS	ND	NT
cis-1,3-Dichloropropene	PPB	NS	ND	NT
Ethylbenzene	PPB	700	ND	NT
2-Hexanone	PPB	NS	ND	NT
Iodomethane	PPB	NS	ND	NT
4-Methyl-2-pentanone	PPB	NS	ND	NT
Methyl-t-butyl ether	PPB	70	ND	NT
Styrene	PPB	100	ND	NT
1,1,1,2-Tetrachloroethane	PPB	NS	ND	NT
1,1,2,2-Tetrachloroethane	PPB	NS	ND	NT
Tetrachloroethene	PPB	NS	ND	NT
Toluene	PPB	1,000	ND	NT
1,1,1-Trichloroethane	PPB	200	ND	NT
1,1,2-Trichloroethane	PPB	5	ND	NT
Trichloroethene	PPB	5	ND	NT
Trichlorofluoromethane	PPB	NS	ND	NT
1,2,3-Trichloropropane	PPB	NS	ND	NT
Vinyl acetate	PPB	NS	ND	NT
Vinyl chloride	PPB	2	ND	NT
Xylene (Total)	PPB	10,000	ND	NT
Total VOCs	PPB	-	ND	**ND**

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-14

pH	Units	MCL	SA-18	SA-19
Indicators			**03/31/20**	**09/29/20**
pH	units	6.5-8.5	6.60	NT
Alkalinity	PPM	NS	44	NT
Chloride	PPM	250	5.5	NT
Total Dissolved Solids	PPM	500	140	NT
Hardness	PPM	NS	52	NT
Turbidity	NTU	15	<5	NT
Nitrate Nitrogen	PPM	10	0.20	NT
Sulfate	PPM	250	42	NT
Specific Conductance	umhos/cm	NS	136	NT
Chemical Oxygen Demand	PPM	NS	<10	NT
Ammonia Nitrogen	PPM	NS	<0.2	NT
Metals	**Units**	**MCL**		
Antimony	PPB	6	<5	NT
Arsenic	PPB	10	3	NT
Barium	PPB	2,000	34	NT
Beryllium	PPB	4	<2	NT
Cadmium	PPB	5	<2	NT
Calcium	PPB	NS	16,700	NT
Chromium	PPB	100	<2	NT
Cobalt	PPB	NS	<2	NT
Copper	PPB	1,300	<2	NT
Iron	PPB	300	300	NT
Lead	PPB	15	<2	NT
Magnesium	PPB	NS	2,760	NT
Manganese	PPB	50	15	NT
Mercury	PPB	2	<0.5	NT
Nickel	PPB	NS	<2	NT
Potassium	PPB	NS	1,350	NT
Selenium	PPB	50	<5	NT
Silver	PPB	100	<2	NT
Sodium	PPB	NS	4,390	NT
Thallium	PPB	2	<2	NT
Vanadium	PPB	NS	<2	NT
Zinc	PPB	5,000	<20	NT
Volatile Organic Compounds	**Units**	**MCL**		
Acetone	PPB	NS	ND	NT
Acrylonitrile	PPB	NS	ND	NT
Benzene	PPB	5	ND	NT
Bromochloromethane	PPB	NS	ND	NT
Bromodichloromethane	PPB	100	ND	NT
Bromoform	PPB	100	ND	NT
Bromomethane	PPB	NS	ND	NT
2-Butanone	PPB	NS	ND	NT
Carbon disulfide	PPB	NS	ND	NT
Carbon tetrachloride	PPB	5	ND	NT
Chlorobenzene	PPB	100	ND	NT
Chloroethane	PPB	NS	ND	NT
Choroform	PPB	NS	ND	NT

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-14

pH	Units	MCL	SA-18	SA-19
Volatile Organic Compounds Cont.			**03/30/20**	**09/29/20**
Chloromethane	PPB	NS	ND	NT
Dibromochloromethane	PPB	NS	ND	NT
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	NT
1,2-Dibromoethane	PPB	NS	ND	NT
Dibromomethane	PPB	NS	ND	NT
1,2-Dichlorobenzene	PPB	600	ND	NT
1,4-Dichlorobenzene	PPB	75	ND	NT
trans-1,4-Dichloro-2-butene	PPB	NS	ND	NT
1,1-Dichloroethane	PPB	NS	ND	NT
1,2-Dichloroethane	PPB	5	ND	NT
1,1-Dichloroethene	PPB	7	ND	NT
cis-1,2,-Dichloroethene	PPB	70	ND	NT
trans-1,2-Dichloroethene	PPB	100	ND	NT
Methylene chloride/Dichloromethane	PPB	5	ND	NT
1,2-Dichloropropane	PPB	5	ND	NT
trans-1,3-Dichloropropene	PPB	NS	ND	NT
cis-1,3-Dichloropropene	PPB	NS	ND	NT
Ethylbenzene	PPB	700	ND	NT
2-Hexanone	PPB	NS	ND	NT
Iodomethane	PPB	NS	ND	NT
4-Methyl-2-pentanone	PPB	NS	ND	NT
Methyl-t-butyl ether	PPB	70	ND	NT
Styrene	PPB	100	ND	NT
1,1,1,2-Tetrachloroethane	PPB	NS	ND	NT
1,1,2,2-Tetrachloroethane	PPB	NS	ND	NT
Tetrachloroethene	PPB	NS	ND	NT
Toluene	PPB	1,000	ND	NT
1,1,1-Trichloroethane	PPB	200	ND	NT
1,1,2-Trichloroethane	PPB	5	ND	NT
Trichloroethene	PPB	5	ND	NT
Trichlorofluoromethane	PPB	NS	ND	NT
1,2,3-Trichloropropane	PPB	NS	ND	NT
Vinyl acetate	PPB	NS	ND	NT
Vinyl chloride	PPB	2	ND	NT
Xylene (Total)	PPB	10,000	ND	NT
Total VOCs	PPB	-	ND	**ND**

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-15

Analyte	Units	MCL	SA-18	SA-19
Indicators			**03/31/20**	**09/29/20**
pH	units	6.5-8.5	6.53	NT
Alkalinity	PPM	NS	320	NT
Chloride	PPM	250	70	NT
Total Dissolved Solids	PPM	500	***610***	NT
Hardness	PPM	NS	400	NT
Turbidity	NTU	15	<5	NT
Nitrate Nitrogen	PPM	10	0.65	NT
Sulfate	PPM	250	42	NT
Specific Conductance	umhos/cm	NS	899	NT
Chemical Oxygen Demand	PPM	NS	15	NT
Ammonia Nitrogen	PPM	NS	<0.2	NT
Metals	**Units**	**MCL**		
Antimony	PPB	6	<5	NT
Arsenic	PPB	10	<2	NT
Barium	PPB	2,000	118	NT
Beryllium	PPB	4	<2	NT
Cadmium	PPB	5	2	NT
Calcium	PPB	NS	137,000	NT
Chromium	PPB	100	<2	NT
Cobalt	PPB	NS	<2	NT
Copper	PPB	1,300	<2	NT
Iron	PPB	300	<50	NT
Lead	PPB	15	<2	NT
Magnesium	PPB	NS	12,000	NT
Manganese	PPB	50	***66***	NT
Mercury	PPB	2	<0.5	NT
Nickel	PPB	NS	2	NT
Potassium	PPB	NS	3,950	NT
Selenium	PPB	50	<5	NT
Silver	PPB	100	<2	NT
Sodium	PPB	NS	50,000	NT
Thallium	PPB	2	<2	NT
Vanadium	PPB	NS	<2	NT
Zinc	PPB	5,000	<20	NT
Volatile Organic Compounds	**Units**	**MCL**		
Acetone	PPB	NS	ND	NT
Acrylonitrile	PPB	NS	ND	NT
Benzene	PPB	5	ND	NT
Bromochloromethane	PPB	NS	ND	NT
Bromodichloromethane	PPB	100	ND	NT
Bromoform	PPB	100	ND	NT
Bromomethane	PPB	NS	ND	NT
2-Butanone	PPB	NS	ND	NT
Carbon disulfide	PPB	NS	ND	NT
Carbon tetrachloride	PPB	5	ND	NT
Chlorobenzene	PPB	100	ND	NT
Chloroethane	PPB	NS	ND	NT
Choroform	PPB	NS	ND	NT

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-15

Analyte	Units	MCL	SA-18	SA-19
Volatile Organic Compounds Cont.			**03/30/20**	**09/29/20**
Chloromethane	PPB	NS	ND	NT
Dibromochloromethane	PPB	NS	ND	NT
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	NT
1,2-Dibromoethane	PPB	NS	ND	NT
Dibromomethane	PPB	NS	ND	NT
1,2-Dichlorobenzene	PPB	600	ND	NT
1,4-Dichlorobenzene	PPB	75	ND	NT
trans-1,4-Dichloro-2-butene	PPB	NS	ND	NT
1,1-Dichloroethane	PPB	NS	ND	NT
1,2-Dichloroethane	PPB	5	ND	NT
1,1-Dichloroethene	PPB	7	ND	NT
cis-1,2,-Dichloroethene	PPB	70	ND	NT
trans-1,2-Dichloroethene	PPB	100	ND	NT
Methylene chloride/Dichloromethane	PPB	5	ND	NT
1,2-Dichloropropane	PPB	5	ND	NT
trans-1,3-Dichloropropene	PPB	NS	ND	NT
cis-1,3-Dichloropropene	PPB	NS	ND	NT
Ethylbenzene	PPB	700	ND	NT
2-Hexanone	PPB	NS	ND	NT
Iodomethane	PPB	NS	ND	NT
4-Methyl-2-pentanone	PPB	NS	ND	NT
Methyl-t-butyl ether	PPB	70	ND	NT
Styrene	PPB	100	ND	NT
1,1,1,2-Tetrachloroethane	PPB	NS	ND	NT
1,1,2,2-Tetrachloroethane	PPB	NS	ND	NT
Tetrachloroethene	PPB	NS	ND	NT
Toluene	PPB	1,000	ND	NT
1,1,1-Trichloroethane	PPB	200	ND	NT
1,1,2-Trichloroethane	PPB	5	ND	NT
Trichloroethene	PPB	5	ND	NT
Trichlorofluoromethane	PPB	NS	ND	NT
1,2,3-Trichloropropane	PPB	NS	ND	NT
Vinyl acetate	PPB	NS	ND	NT
Vinyl chloride	PPB	2	ND	NT
Xylene (Total)	PPB	10,000	ND	NT
Total VOCs	PPB	-	ND	**ND**

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL POND

Analyte	Units	MCL	SA-19
Indicators			**09/29/20**
pH	units	6.5-8.5	8.21
Alkalinity	PPM	NS	94
Chloride	PPM	250	24
Total Dissolved Solids	PPM	500	210
Hardness	PPM	NS	130
Turbidity	NTU	15	0.10
Nitrate Nitrogen	PPM	10	<0.05
Sulfate	PPM	250	15
Specific Conductance	umhos/cm	NS	191
Chemical Oxygen Demand	PPM	NS	19
Ammonia Nitrogen	PPM	NS	<0.2
Metals	**Units**	**MCL**	
Antimony	PPB	6	<5
Arsenic	PPB	10	<2
Barium	PPB	2,000	23
Beryllium	PPB	4	<2
Cadmium	PPB	5	<2
Calcium	PPB	NS	21,400
Chromium	PPB	100	<2
Cobalt	PPB	NS	<2
Copper	PPB	1,300	<2
Iron	PPB	300	<50
Lead	PPB	15	<2
Magnesium	PPB	NS	11,200
Manganese	PPB	50	<2
Mercury	PPB	2	<0.5
Nickel	PPB	NS	<2
Potassium	PPB	NS	4,040
Selenium	PPB	50	<5
Silver	PPB	100	<2
Sodium	PPB	NS	18,000
Thallium	PPB	2	<2
Vanadium	PPB	NS	<2
Zinc	PPB	5,000	<20
Volatile Organic Compounds	**Units**	**MCL**	
Acetone	PPB	NS	ND
Acrylonitrile	PPB	NS	ND
Benzene	PPB	5	ND
Bromochloromethane	PPB	NS	ND
Bromodichloromethane	PPB	100	ND
Bromoform	PPB	100	ND
Bromomethane	PPB	NS	ND
2-Butanone	PPB	NS	ND
Carbon disulfide	PPB	NS	ND
Carbon tetrachloride	PPB	5	ND
Chlorobenzene	PPB	100	ND
Chloroethane	PPB	NS	ND
Choroform	PPB	NS	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL POND

Analyte	Units	MCL	SA-19
Volatile Organic Compounds Cont.			**09/29/20**
Chloromethane	PPB	NS	ND
Dibromochloromethane	PPB	NS	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND
1,2-Dibromoethane	PPB	NS	ND
Dibromomethane	PPB	NS	ND
1,2-Dichlorobenzene	PPB	600	ND
1,4-Dichlorobenzene	PPB	75	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND
1,1-Dichloroethane	PPB	NS	ND
1,2-Dichloroethane	PPB	5	ND
1,1-Dichloroethene	PPB	7	ND
cis-1,2,-Dichloroethene	PPB	70	ND
trans-1,2-Dichloroethene	PPB	100	ND
Methylene chloride/Dichloromethane	PPB	5	ND
1,2-Dichloropropane	PPB	5	ND
trans-1,3-Dichloropropene	PPB	NS	ND
cis-1,3-Dichloropropene	PPB	NS	ND
Ethylbenzene	PPB	700	ND
2-Hexanone	PPB	NS	ND
Iodomethane	PPB	NS	ND
4-Methyl-2-pentanone	PPB	NS	ND
Methyl-t-butyl ether	PPB	70	ND
Styrene	PPB	100	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND
Tetrachloroethene	PPB	NS	ND
Toluene	PPB	1,000	ND
1,1,1-Trichloroethane	PPB	200	ND
1,1,2-Trichloroethane	PPB	5	ND
Trichloroethene	PPB	5	ND
Trichlorofluoromethane	PPB	NS	ND
1,2,3-Trichloropropane	PPB	NS	ND
Vinyl acetate	PPB	NS	ND
Vinyl chloride	PPB	2	ND
Xylene (Total)	PPB	10,000	ND
Total VOCs	PPB	-	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

APPENDIX B

2nd HALF 2020 LAB REPORT

1025 Cromwell Bridge Road - Baltimore, Maryland 21286
PH 410-825-7790 martel@martellabs.com

R.B. Baker & Sons, Inc
P.O. Box 2

Queenstown, MD 21658
Attention: Ted Baker

Tuesday, November 3, 2020

Certificate of Analysis
FINAL

Samples analyzed according to method requirements and QC exceptions available.

Project Information:

Report for Lab No: 51035.
Project Identification: Biannual Groundwater Monitoring - 9/29/20

Sampling peformed by Martel personnel. Martel is responsible for transportation and preservation of all samples as reflected in the chain of custody form that is included in the report. Received dates are included in the chain of custody portion of the report.. The results apply to the samples as received.

References and Important Notes:

SW-846="Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, U.S. EPA Washington D.C. SM="Standard Methods for the Examination of Water and Wastewater", American Public Health Association, American Water Works Association, and Water Environment Federation. 40CFR136=U.S. "Code of Federal Regulations", Title 40, Protection of the Environment, Part 136, Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act.

Notices:

Chain of Custody Form(s) are attached and are an integral part of this report.
This report will be retained for at least five years and will be disposed of without notice.
Measurement uncertainty for each listed test is available upon request.
The results presented herein relate only to the samples or items tested.
All samples tested were in acceptable condition, unless otherwise noted.

Thomas Murstoff
Project Manager

MARTEL

Certificate of Analysis

MARTEL NO. 51035 000001

CLIENT SAMPLE IDENTIFICATION: Well #3, QA-88-0872

Sample Date/Time: 09/29/2020 15:45

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Depth to Water	5.10	ft		0.01	09/29/2020 15:10 TM
Temperature	18.9	deg C	SM 2550B-00		09/29/2020 15:45 TM
pH	6.59	units	EPA 9040		09/29/2020 15:45 TM
Oxidation-reduction potential	42	mv	SM 2580		09/29/2020 15:45 TM
Specific Conductance	0.393	mS/cm	EPA 9050	0.1	09/29/2020 15:45 TM
Turbidity	<5	ntu	SM 2130-B	5	09/29/2020 15:45 TM
Dissolved Oxygen	<0.1	mg/l	EPA 360.1	0.1	09/29/2020 15:45 TM
Alkalinity, total (as CaCO3)	260	mg/l	SM 2320 B-97	20	10/05/2020 13:30 AE
Chloride	32	mg/l	SM 4500-Cl E-97	1	10/13/2020 15:17 CSG
Total Dissolved Solids	380	mg/l	SM 2540C-97	25	09/30/2020 10:00 CB
Hardness (total)	300	mg/l	SM 2340 C	1	10/20/2020 09:05 AE
Sulfate	15	mg/l	EPA 9038	10	10/14/2020 10:00 MA
Nitrite Nitrogen	<0.02	mg/l	SM 4500-NO2 B00	0.02	09/30/2020 16:17 CSG
Nitrate Nitrogen	0.09	mg/l	EPA 9210	0.05	10/12/2020 12:41 CSG
Nitrate-Nitrite Nitrogen	0.09	mg/l	SM 4500-NO3 H00	0.05	10/12/2020 12:41 CSG
Chemical Oxygen Demand	21	mg/l	SM 5220 D	10	10/07/2020 08:30 CB
Ammonia Nitrogen	<0.2	mg/l	SM 4500-NH3 C97	0.2	10/06/2020 12:30 CB
Antimony	<0.005	mg/l	EPA 6020	0.005	10/15/2020 14:56 CSG
Arsenic	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:56 CSG
Barium	0.087	mg/l	EPA 6020	0.005	10/15/2020 14:56 CSG
Beryllium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:56 CSG
Cadmium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:56 CSG
Calcium	79.5	mg/l	EPA 6020	0.2	10/15/2020 17:48 CSG
Chromium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:56 CSG
Cobalt	0.003	mg/l	EPA 6020	0.002	10/15/2020 14:56 CSG
Copper	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:56 CSG
Iron	0.285	mg/l	EPA 6020	0.05	10/15/2020 14:56 CSG
Lead	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:56 CSG
Nickel	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:56 CSG
Magnesium	17.3	mg/l	EPA 6020	0.2	10/15/2020 17:42 CSG
Manganese	3.14	mg/l	EPA 6020	0.002	10/15/2020 17:45 CSG
Mercury	<0.0005	mg/l	EPA 7471	0.0005	10/08/2020 13:00 CSG
Potassium	5.25	mg/l	EPA 6020	0.2	10/15/2020 17:39 CSG
Selenium	<0.005	mg/l	EPA 6020	0.005	10/15/2020 14:56 CSG
Silver	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:56 CSG
Sodium	17.6	mg/l	EPA 6020	0.2	10/15/2020 17:42 CSG
Thallium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:56 CSG
Vanadium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:56 CSG
Zinc	<0.02	mg/l	EPA 6020	0.02	10/15/2020 14:56 CSG
Volatile Organic Compounds			EPA 8260B		10/08/2020 15:45 BJ
Acetone	ND	ug/l	EPA 8260B	5	10/08/2020 15:45 BJ
Acrylonitrile	ND	ug/l	EPA 8260B	5	10/08/2020 15:45 BJ
Benzene	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Bromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Bromodichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ

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Certificate of Analysis

MARTEL NO. 51035 O00001

CLIENT SAMPLE IDENTIFICATION Well #3, QA-88-0872

Sample Date/Time 09/29/2020 15:45

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Bromoform	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Bromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Carbon disulfide	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Carbon tetrachloride	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Chlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Dibromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Chloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Chloroform	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Chloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Dibromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
1,2-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
1,3-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
1,4-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
trans-1,4-Dichloro-2-butene	ND	ug/l	EPA 8260B	5	10/08/2020 15:45 BJ
1,1-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
1,2-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
1,1-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
cis-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
trans-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
1,2-Dichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
cis-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
trans-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Ethylbenzene	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
2-Hexanone	ND	ug/l	EPA 8260B	5	10/08/2020 15:45 BJ
Iodomethane	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Dichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
2-Butanone	ND	ug/l	EPA 8260B	5	10/08/2020 15:45 BJ
Methyl-t-butyl ether	ND	ug/l	EPA 8260B	2	10/08/2020 15:45 BJ
4-Methyl-2-pentanone	ND	ug/l	EPA 8260B	5	10/08/2020 15:45 BJ
Styrene	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
1,1,1,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
1,1,2,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Tetrachloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Toluene	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
1,1,1-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
1,1,2-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Trichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Trichlorofluoromethane	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
1,2,3-Trichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Vinyl acetate	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Vinyl chloride	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
Xylene, Total	ND	ug/l	EPA 8260B	1	10/08/2020 15:45 BJ
					/ /
Surrogate Spike					/ /
1,2-Dichloroethane-d4	73	%	EPA 8260B		10/08/2020 15:45 BJ

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MARTEL NO. 51035 000001 — CLIENT SAMPLE IDENTIFICATION: Well #3, QA-88-0872 — Sample Date/Time: 09/29/2020 15:45

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
4-Bromofluorobenzene	86	%	EPA 8260B		10/08/2020 15:45 BJ
Dibromofluoromethane	99	%	EPA 8260B		10/08/2020 15:45 BJ
Toluene-d8	96	%	EPA 8260B		10/08/2020 15:45 BJ
					/ /
EDB and DBCP (Microextraction)			EPA 8011		10/15/2020 12:14 AK\
1,2-Dibromo-3-chloropropane	ND	ug/l	EPA 8011	1	10/15/2020 12:14 AK\
1,2-Dibromoethane	ND	ug/l	EPA 8011	1	10/15/2020 12:14 AK\

MARTEL NO. 51035 000002 — CLIENT SAMPLE IDENTIFICATION: Well #4, QA-88-0873 — Sample Date/Time: 09/29/2020 16:29

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Depth to Water	5.81	ft		0.01	09/29/2020 16:13 TM
Temperature	18.2	deg C	SM 2550B-00		09/29/2020 16:29 TM
pH	6.76	units	EPA 9040		09/29/2020 16:29 TM
Oxidation-reduction potential	-6	mv	SM 2580		09/29/2020 16:29 TM
Specific Conductance	0.245	mS/cm	EPA 9050	0.1	09/29/2020 16:29 TM
Turbidity	<5	ntu	SM 2130-B	5	09/29/2020 16:29 TM
Dissolved Oxygen	<0.1	mg/l	EPA 360.1	0.1	09/29/2020 16:29 TM
Alkalinity, total (as CaCO3)	180	mg/l	SM 2320 B-97	20	10/05/2020 13:30 AE
Chloride	2.6	mg/l	SM 4500-Cl E-97	1	10/13/2020 15:17 CSG
Total Dissolved Solids	200	mg/l	SM 2540C-97	25	09/30/2020 10:00 CB
Hardness (total)	210	mg/l	SM 2340 C	1	10/20/2020 09:05 AE
Sulfate	18	mg/l	EPA 9038	10	10/14/2020 10:00 MA
Nitrite Nitrogen	<0.02	mg/l	SM 4500-NO2 B00	0.02	09/30/2020 16:17 CSG
Nitrate Nitrogen	0.06	mg/l	EPA 9210	0.05	10/12/2020 12:41 CSG
Nitrate-Nitrite Nitrogen	0.06	mg/l	SM 4500-NO3 H00	0.05	10/12/2020 12:41 CSG
Chemical Oxygen Demand	16	mg/l	SM 5220 D	10	10/07/2020 08:30 CB
Ammonia Nitrogen	<0.2	mg/l	SM 4500-NH3 C97	0.2	10/06/2020 12:30 CB
Antimony	<0.005	mg/l	EPA 6020	0.005	10/15/2020 14:58 CSG
Arsenic	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:58 CSG
Barium	0.048	mg/l	EPA 6020	0.005	10/15/2020 14:58 CSG
Beryllium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:58 CSG
Cadmium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:58 CSG
Calcium	50	mg/l	EPA 6020	0.2	10/15/2020 17:54 CSG
Chromium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:58 CSG
Cobalt	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:58 CSG
Copper	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:58 CSG
Iron	1.77	mg/l	EPA 6020	0.05	10/15/2020 17:51 CSG
Lead	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:58 CSG
Nickel	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:58 CSG
Magnesium	14.3	mg/l	EPA 6020	0.2	10/15/2020 17:51 CSG
Manganese	0.211	mg/l	EPA 6020	0.002	10/15/2020 14:58 CSG
Mercury	<0.0005	mg/l	EPA 7471	0.0005	10/08/2020 13:00 CSG
Potassium	2.85	mg/l	EPA 6020	0.2	10/15/2020 14:58 CSG

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MARTEL NO. 51035 000002

CLIENT SAMPLE IDENTIFICATION Well #4, QA-88-0873

Sample Date/Time 09/29/2020 16:29

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Selenium	<0.005	mg/l	EPA 6020	0.005	10/15/2020 14:58 CSG
Silver	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:58 CSG
Sodium	4.14	mg/l	EPA 6020	0.2	10/15/2020 14:58 CSG
Thallium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:58 CSG
Vanadium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 14:58 CSG
Zinc	<0.02	mg/l	EPA 6020	0.02	10/15/2020 14:58 CSG
Volatile Organic Compounds			EPA 8260B		10/09/2020 15:06 BJ
Acetone	ND	ug/l	EPA 8260B	5	10/09/2020 15:06 BJ
Acrylonitrile	ND	ug/l	EPA 8260B	5	10/09/2020 15:06 BJ
Benzene	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Bromochloromethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Bromodichloromethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Bromoform	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Bromomethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Carbon disulfide	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Carbon tetrachloride	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Chlorobenzene	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Dibromochloromethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Chloroethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Chloroform	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Chloromethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Dibromomethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
1,2-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
1,3-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
1,4-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
trans-1,4-Dichloro-2-butene	ND	ug/l	EPA 8260B	5	10/09/2020 15:06 BJ
1,1-Dichloroethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
1,2-Dichloroethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
1,1-Dichloroethene	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
cis-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
trans-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
1,2-Dichloropropane	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
cis-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
trans-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Ethylbenzene	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
2-Hexanone	ND	ug/l	EPA 8260B	5	10/09/2020 15:06 BJ
Iodomethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Dichloromethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
2-Butanone	ND	ug/l	EPA 8260B	5	10/09/2020 15:06 BJ
Methyl-t-butyl ether	ND	ug/l	EPA 8260B	2	10/09/2020 15:06 BJ
4-Methyl-2-pentanone	ND	ug/l	EPA 8260B	5	10/09/2020 15:06 BJ
Styrene	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
1,1,1,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
1,1,2,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Tetrachloroethene	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ

MARTEL NO. 51035 000002 — CLIENT SAMPLE IDENTIFICATION: Well #4, QA-88-0873 — Sample Date/Time: 09/29/2020 16:29

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Toluene	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
1,1,1-Trichloroethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
1,1,2-Trichloroethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Trichloroethene	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Trichlorofluoromethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
1,2,3-Trichloropropane	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Vinyl acetate	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Vinyl chloride	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
Xylene, Total	ND	ug/l	EPA 8260B	1	10/09/2020 15:06 BJ
					/ /
Surrogate Spike					/ /
1,2-Dichloroethane-d4	70	%	EPA 8260B		10/09/2020 15:06 BJ
4-Bromofluorobenzene	87	%	EPA 8260B		10/09/2020 15:06 BJ
Dibromofluoromethane	96	%	EPA 8260B		10/09/2020 15:06 BJ
Toluene-d8	94	%	EPA 8260B		10/09/2020 15:06 BJ
					/ /
EDB and DBCP (Microextraction)			EPA 8011		10/15/2020 12:43 AK\
1,2-Dibromo-3-chloropropane	ND	ug/l	EPA 8011	1	10/15/2020 12:43 AK\
1,2-Dibromoethane	ND	ug/l	EPA 8011	1	10/15/2020 12:43 AK\

MARTEL NO. 51035 000003 — CLIENT SAMPLE IDENTIFICATION: Well #5, QA-88-0874 — Sample Date/Time: 09/29/2020 17:03

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Depth to Water	4.87	ft		0.01	09/29/2020 16:49 TM
Temperature	18.7	deg C	SM 2550B-00		09/29/2020 17:03 TM
pH	6.43	units	EPA 9040		09/29/2020 17:03 TM
Oxidation-reduction potential	53	mv	SM 2580		09/29/2020 17:03 TM
Specific Conductance	0.504	mS/cm	EPA 9050	0.1	09/29/2020 17:03 TM
Turbidity	<5	ntu	SM 2130-B	5	09/29/2020 17:03 TM
Dissolved Oxygen	<0.1	mg/l	EPA 360.1	0.1	09/29/2020 17:03 TM
Alkalinity, total (as CaCO3)	260	mg/l	SM 2320 B-97	20	10/05/2020 13:30 AE
Chloride	35	mg/l	SM 4500-Cl E-97	1	10/13/2020 15:17 CSG
Total Dissolved Solids	460	mg/l	SM 2540C-97	25	09/30/2020 10:00 CB
Hardness (total)	310	mg/l	SM 2340 C	1	10/20/2020 09:05 AE
Sulfate	100	mg/l	EPA 9038	10	10/14/2020 10:00 MA
Nitrite Nitrogen	<0.02	mg/l	SM 4500-NO2 B00	0.02	09/30/2020 16:17 CSG
Nitrate Nitrogen	0.07	mg/l	EPA 9210	0.05	10/12/2020 12:41 CSG
Nitrate-Nitrite Nitrogen	0.07	mg/l	SM 4500-NO3 H00	0.05	10/12/2020 12:41 CSG
Chemical Oxygen Demand	31	mg/l	SM 5220 D	10	10/07/2020 08:30 CB
Ammonia Nitrogen	2.1	mg/l	SM 4500-NH3 C97	0.2	10/06/2020 12:30 CB
Antimony	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:01 CSG
Arsenic	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:01 CSG
Barium	0.117	mg/l	EPA 6020	0.005	10/15/2020 15:01 CSG
Beryllium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:01 CSG

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MARTEL NO. 51035 000003

CLIENT SAMPLE IDENTIFICATION Well #5, QA-88-0874

Sample Date/Time 09/29/2020 17:03

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Cadmium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:01 CSG
Calcium	79.6	mg/l	EPA 6020	0.2	10/15/2020 18:02 CSG
Chromium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:01 CSG
Cobalt	0.005	mg/l	EPA 6020	0.002	10/15/2020 15:01 CSG
Copper	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:01 CSG
Iron	1.04	mg/l	EPA 6020	0.05	10/15/2020 17:57 CSG
Lead	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:01 CSG
Nickel	0.005	mg/l	EPA 6020	0.002	10/15/2020 15:01 CSG
Magnesium	21.4	mg/l	EPA 6020	0.2	10/15/2020 17:57 CSG
Manganese	1.66	mg/l	EPA 6020	0.002	10/15/2020 17:57 CSG
Mercury	<0.0005	mg/l	EPA 7471	0.0005	10/08/2020 13:00 CSG
Potassium	4.3	mg/l	EPA 6020	0.2	10/15/2020 15:01 CSG
Selenium	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:01 CSG
Silver	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:01 CSG
Sodium	41.6	mg/l	EPA 6020	0.2	10/15/2020 17:59 CSG
Thallium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:01 CSG
Vanadium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:01 CSG
Zinc	<0.02	mg/l	EPA 6020	0.02	10/15/2020 15:01 CSG
Volatile Organic Compounds			EPA 8260B		10/08/2020 17:36 BJ
Acetone	ND	ug/l	EPA 8260B	5	10/08/2020 17:36 BJ
Acrylonitrile	ND	ug/l	EPA 8260B	5	10/08/2020 17:36 BJ
Benzene	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Bromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Bromodichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Bromoform	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Bromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Carbon disulfide	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Carbon tetrachloride	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Chlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Dibromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Chloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Chloroform	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Chloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Dibromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
1,2-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
1,3-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
1,4-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
trans-1,4-Dichloro-2-butene	ND	ug/l	EPA 8260B	5	10/08/2020 17:36 BJ
1,1-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
1,2-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
1,1-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
cis-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
trans-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
1,2-Dichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
cis-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ

MARTEL NO. 51035 000003 — CLIENT SAMPLE IDENTIFICATION: Well #5, QA-88-0874 — Sample Date/Time: 09/29/2020 17:03

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
trans-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Ethylbenzene	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
2-Hexanone	ND	ug/l	EPA 8260B	5	10/08/2020 17:36 BJ
Iodomethane	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Dichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
2-Butanone	ND	ug/l	EPA 8260B	5	10/08/2020 17:36 BJ
Methyl-t-butyl ether	ND	ug/l	EPA 8260B	2	10/08/2020 17:36 BJ
4-Methyl-2-pentanone	ND	ug/l	EPA 8260B	5	10/08/2020 17:36 BJ
Styrene	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
1,1,1,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
1,1,2,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Tetrachloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Toluene	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
1,1,1-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
1,1,2-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Trichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Trichlorofluoromethane	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
1,2,3-Trichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Vinyl acetate	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Vinyl chloride	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
Xylene, Total	ND	ug/l	EPA 8260B	1	10/08/2020 17:36 BJ
					/ /
Surrogate Spike					/ /
1,2-Dichloroethane-d4	61	%	EPA 8260B		10/08/2020 17:36 BJ
4-Bromofluorobenzene	87	%	EPA 8260B		10/08/2020 17:36 BJ
Dibromofluoromethane	90	%	EPA 8260B		10/08/2020 17:36 BJ
Toluene-d8	92	%	EPA 8260B		10/08/2020 17:36 BJ
					/ /
EDB and DBCP (Microextraction)			EPA 8011		10/15/2020 01:12 AK\
1,2-Dibromo-3-chloropropane	ND	ug/l	EPA 8011	1	10/15/2020 01:12 AK\
1,2-Dibromoethane	ND	ug/l	EPA 8011	1	10/15/2020 01:12 AK\

MARTEL NO. 51035 000004 — CLIENT SAMPLE IDENTIFICATION: Well #6, QA-92-0330 — Sample Date/Time: 09/29/2020 11:53

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Depth to Water	15.83	ft		0.01	09/29/2020 11:36 TM
Temperature	17.9	deg C	SM 2550B-00		09/29/2020 11:53 TM
pH	4.56	units	EPA 9040		09/29/2020 11:53 TM
Oxidation-reduction potential	403	mv	SM 2580		09/29/2020 11:53 TM
Specific Conductance	0.075	mS/cm	EPA 9050	0.1	09/29/2020 11:53 TM
Turbidity	25.5	ntu	SM 2130-B	5	09/29/2020 11:53 TM
Dissolved Oxygen	1.02	mg/l	EPA 360.1	0.1	09/29/2020 11:53 TM
Alkalinity, total (as CaCO3)	<20	mg/l	SM 2320 B-97	20	10/05/2020 13:30 AE
Chloride	18	mg/l	SM 4500-Cl E-97	1	10/13/2020 15:17 CSG

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MARTEL NO. 51035 000004

CLIENT SAMPLE IDENTIFICATION Well #6, QA-92-0330

Sample Date/Time 09/29/2020 11:53

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Total Dissolved Solids	270	mg/l	SM 2540C-97	25	09/30/2020 10:00 CB
Hardness (total)	60	mg/l	SM 2340 C	1	10/20/2020 09:05 AE
Sulfate	20	mg/l	EPA 9038	10	10/14/2020 10:00 MA
Nitrite Nitrogen	<0.02	mg/l	SM 4500-NO2 B00	0.02	09/30/2020 16:17 CSG
Nitrate Nitrogen	0.31	mg/l	EPA 9210	0.05	10/12/2020 12:41 CSG
Nitrate-Nitrite Nitrogen	0.31	mg/l	SM 4500-NO3 H00	0.05	10/12/2020 12:41 CSG
Chemical Oxygen Demand	<10	mg/l	SM 5220 D	10	10/07/2020 08:30 CB
Ammonia Nitrogen	<0.2	mg/l	SM 4500-NH3 C97	0.2	10/06/2020 12:30 CB
Antimony	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:04 CSG
Arsenic	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:04 CSG
Barium	0.038	mg/l	EPA 6020	0.005	10/15/2020 15:04 CSG
Beryllium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:04 CSG
Cadmium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:04 CSG
Calcium	4.99	mg/l	EPA 6020	0.2	10/15/2020 15:04 CSG
Chromium	0.002	mg/l	EPA 6020	0.002	10/15/2020 15:04 CSG
Cobalt	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:04 CSG
Copper	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:04 CSG
Iron	1.79	mg/l	EPA 6020	0.05	10/15/2020 18:05 CSG
Lead	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:04 CSG
Nickel	0.003	mg/l	EPA 6020	0.002	10/15/2020 15:04 CSG
Magnesium	2.36	mg/l	EPA 6020	0.2	10/15/2020 15:04 CSG
Manganese	0.018	mg/l	EPA 6020	0.002	10/15/2020 15:04 CSG
Mercury	<0.0005	mg/l	EPA 7471	0.0005	10/08/2020 13:00 CSG
Potassium	1.29	mg/l	EPA 6020	0.2	10/15/2020 15:04 CSG
Selenium	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:04 CSG
Silver	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:04 CSG
Sodium	10.1	mg/l	EPA 6020	0.2	10/15/2020 18:05 CSG
Thallium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:04 CSG
Vanadium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:04 CSG
Zinc	0.022	mg/l	EPA 6020	0.02	10/15/2020 15:04 CSG
Volatile Organic Compounds			EPA 8260B		10/08/2020 18:17 BJ
Acetone	ND	ug/l	EPA 8260B	5	10/08/2020 18:17 BJ
Acrylonitrile	ND	ug/l	EPA 8260B	5	10/08/2020 18:17 BJ
Benzene	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Bromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Bromodichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Bromoform	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Bromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Carbon disulfide	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Carbon tetrachloride	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Chlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Dibromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Chloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Chloroform	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Chloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ

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Certificate of Analysis

MARTEL NO. 51035 000004

CLIENT SAMPLE IDENTIFICATION Well #6, QA-92-0330

Sample Date/Time 09/29/2020 11:53

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Dibromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
1,2-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
1,3-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
1,4-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
trans-1,4-Dichloro-2-butene	ND	ug/l	EPA 8260B	5	10/08/2020 18:17 BJ
1,1-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
1,2-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
1,1-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
cis-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
trans-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
1,2-Dichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
cis-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
trans-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Ethylbenzene	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
2-Hexanone	ND	ug/l	EPA 8260B	5	10/08/2020 18:17 BJ
Iodomethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Dichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
2-Butanone	ND	ug/l	EPA 8260B	5	10/08/2020 18:17 BJ
Methyl-t-butyl ether	ND	ug/l	EPA 8260B	2	10/08/2020 18:17 BJ
4-Methyl-2-pentanone	ND	ug/l	EPA 8260B	5	10/08/2020 18:17 BJ
Styrene	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
1,1,1,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
1,1,2,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Tetrachloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Toluene	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
1,1,1-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
1,1,2-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Trichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Trichlorofluoromethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
1,2,3-Trichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Vinyl acetate	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Vinyl chloride	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
Xylene, Total	ND	ug/l	EPA 8260B	1	10/08/2020 18:17 BJ
					/ /
Surrogate Spike					/ /
1,2-Dichloroethane-d4	70	%	EPA 8260B		10/08/2020 18:17 BJ
4-Bromofluorobenzene	87	%	EPA 8260B		10/08/2020 18:17 BJ
Dibromofluoromethane	99	%	EPA 8260B		10/08/2020 18:17 BJ
Toluene-d8	96	%	EPA 8260B		10/08/2020 18:17 BJ
					/ /
EDB and DBCP (Microextraction)			EPA 8011		10/15/2020 01:42 AK\
1,2-Dibromo-3-chloropropane	ND	ug/l	EPA 8011	1	10/15/2020 01:42 AK\
1,2-Dibromoethane	ND	ug/l	EPA 8011	1	10/15/2020 01:42 AK\

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MARTEL NO. 51035 000005

CLIENT SAMPLE IDENTIFICATION Well #7, QA-92-0332

Sample Date/Time 09/29/2020 11:08

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Depth to Water	8.58	ft		0.01	09/29/2020 10:53 TM
Temperature	19.5	deg C	SM 2550B-00		09/29/2020 11:08 TM
pH	5.82	units	EPA 9040		09/29/2020 11:08 TM
Oxidation-reduction potential	320	mv	SM 2580		09/29/2020 11:08 TM
Specific Conductance	0.472	mS/cm	EPA 9050	0.1	09/29/2020 11:08 TM
Turbidity	<5	ntu	SM 2130-B	5	09/29/2020 11:08 TM
Dissolved Oxygen	1.32	mg/l	EPA 360.1	0.1	09/29/2020 11:08 TM
Alkalinity, total (as CaCO3)	62	mg/l	SM 2320 B-97	20	10/05/2020 13:30 AE
Chloride	59	mg/l	SM 4500-Cl E-97	1	10/22/2020 13:18 CSG
Total Dissolved Solids	630	mg/l	SM 2540C-97	25	09/30/2020 10:00 CB
Hardness (total)	240	mg/l	SM 2340 C	1	10/20/2020 09:05 AE
Sulfate	230	mg/l	EPA 9038	10	10/14/2020 10:00 MA
Nitrite Nitrogen	<0.02	mg/l	SM 4500-NO2 B00	0.02	09/30/2020 16:17 CSG
Nitrate Nitrogen	0.17	mg/l	EPA 9210	0.05	10/12/2020 12:41 CSG
Nitrate-Nitrite Nitrogen	0.17	mg/l	SM 4500-NO3 H00	0.05	10/12/2020 12:41 CSG
Chemical Oxygen Demand	16	mg/l	SM 5220 D	10	10/07/2020 08:30 CB
Ammonia Nitrogen	<0.2	mg/l	SM 4500-NH3 C97	0.2	10/06/2020 12:30 CB
Antimony	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:06 CSG
Arsenic	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:06 CSG
Barium	0.042	mg/l	EPA 6020	0.005	10/15/2020 15:06 CSG
Beryllium	0.003	mg/l	EPA 6020	0.002	10/15/2020 15:06 CSG
Cadmium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:06 CSG
Calcium	47	mg/l	EPA 6020	0.2	10/15/2020 18:17 CSG
Chromium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:06 CSG
Cobalt	0.078	mg/l	EPA 6020	0.002	10/15/2020 15:06 CSG
Copper	0.003	mg/l	EPA 6020	0.002	10/15/2020 15:06 CSG
Iron	0.134	mg/l	EPA 6020	0.05	10/15/2020 15:06 CSG
Lead	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:06 CSG
Nickel	0.112	mg/l	EPA 6020	0.002	10/15/2020 15:06 CSG
Magnesium	28	mg/l	EPA 6020	0.2	10/15/2020 18:17 CSG
Manganese	0.234	mg/l	EPA 6020	0.002	10/15/2020 15:06 CSG
Mercury	<0.0005	mg/l	EPA 7471	0.0005	10/08/2020 13:00 CSG
Potassium	1.08	mg/l	EPA 6020	0.2	10/15/2020 15:06 CSG
Selenium	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:06 CSG
Silver	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:06 CSG
Sodium	48.5	mg/l	EPA 6020	0.2	10/15/2020 18:17 CSG
Thallium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:06 CSG
Vanadium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:06 CSG
Zinc	0.105	mg/l	EPA 6020	0.02	10/15/2020 15:06 CSG
Volatile Organic Compounds			EPA 8260B		10/08/2020 18:57 BJ
Acetone	ND	ug/l	EPA 8260B	5	10/08/2020 18:57 BJ
Acrylonitrile	ND	ug/l	EPA 8260B	5	10/08/2020 18:57 BJ
Benzene	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Bromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Bromodichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ

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MARTEL NO. 51035 000005

CLIENT SAMPLE IDENTIFICATION Well #7, QA-92-0332

Sample Date/Time 09/29/2020 11:08

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Bromoform	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Bromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Carbon disulfide	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Carbon tetrachloride	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Chlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Dibromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Chloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Chloroform	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Chloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Dibromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
1,2-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
1,3-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
1,4-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
trans-1,4-Dichloro-2-butene	ND	ug/l	EPA 8260B	5	10/08/2020 18:57 BJ
1,1-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
1,2-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
1,1-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
cis-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
trans-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
1,2-Dichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
cis-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
trans-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Ethylbenzene	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
2-Hexanone	ND	ug/l	EPA 8260B	5	10/08/2020 18:57 BJ
Iodomethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Dichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
2-Butanone	ND	ug/l	EPA 8260B	5	10/08/2020 18:57 BJ
Methyl-t-butyl ether	ND	ug/l	EPA 8260B	2	10/08/2020 18:57 BJ
4-Methyl-2-pentanone	ND	ug/l	EPA 8260B	5	10/08/2020 18:57 BJ
Styrene	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
1,1,1,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
1,1,2,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Tetrachloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Toluene	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
1,1,1-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
1,1,2-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Trichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Trichlorofluoromethane	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
1,2,3-Trichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Vinyl acetate	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Vinyl chloride	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
Xylene, Total	ND	ug/l	EPA 8260B	1	10/08/2020 18:57 BJ
					/ /
Surrogate Spike					/ /
1,2-Dichloroethane-d4	71	%	EPA 8260B		10/08/2020 18:57 BJ

MARTEL NO. 51035 000005 — CLIENT SAMPLE IDENTIFICATION: Well #7, QA-92-0332 — Sample Date/Time: 09/29/2020 11:08

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
4-Bromofluorobenzene	87	%	EPA 8260B		10/08/2020 18:57 BJ
Dibromofluoromethane	94	%	EPA 8260B		10/08/2020 18:57 BJ
Toluene-d8	96	%	EPA 8260B		10/08/2020 18:57 BJ
					/ /
EDB and DBCP (Microextraction)			EPA 8011		10/15/2020 02:11 AK\
1,2-Dibromo-3-chloropropane	ND	ug/l	EPA 8011	1	10/15/2020 02:11 AK\
1,2-Dibromoethane	ND	ug/l	EPA 8011	1	10/15/2020 02:11 AK\

MARTEL NO. 51035 000006 — CLIENT SAMPLE IDENTIFICATION: Well #8, QA-92-0331 — Sample Date/Time: 09/29/2020 13:32

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Depth to Water	7.53	ft		0.01	09/29/2020 13:12 TM
Temperature	19.3	deg C	SM 2550B-00		09/29/2020 13:32 TM
pH	5.49	units	EPA 9040		09/29/2020 13:32 TM
Oxidation-reduction potential	76	mv	SM 2580		09/29/2020 13:32 TM
Specific Conductance	0.029	mS/cm	EPA 9050	0.1	09/29/2020 13:32 TM
Turbidity	<5	ntu	SM 2130-B	5	09/29/2020 13:32 TM
Dissolved Oxygen	<0.1	mg/l	EPA 360.1	0.1	09/29/2020 13:32 TM
Alkalinity, total (as CaCO3)	<20	mg/l	SM 2320 B-97	20	10/05/2020 13:30 AE
Chloride	1.6	mg/l	SM 4500-Cl E-97	1	10/22/2020 13:18 CSG
Total Dissolved Solids	160	mg/l	SM 2540C-97	25	09/30/2020 10:00 CB
Hardness (total)	48	mg/l	SM 2340 C	1	10/20/2020 09:05 AE
Sulfate	<10	mg/l	EPA 9038	10	10/14/2020 10:00 MA
Nitrite Nitrogen	<0.02	mg/l	SM 4500-NO2 B00	0.02	09/30/2020 16:17 CSG
Nitrate Nitrogen	<0.05	mg/l	EPA 9210	0.05	10/12/2020 12:41 CSG
Nitrate-Nitrite Nitrogen	<0.05	mg/l	SM 4500-NO3 H00	0.05	10/12/2020 12:41 CSG
Chemical Oxygen Demand	<10	mg/l	SM 5220 D	10	10/07/2020 08:30 CB
Ammonia Nitrogen	<0.2	mg/l	SM 4500-NH3 C97	0.2	10/06/2020 12:30 CB
Antimony	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:09 CSG
Arsenic	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:09 CSG
Barium	0.026	mg/l	EPA 6020	0.005	10/15/2020 15:09 CSG
Beryllium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:09 CSG
Cadmium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:09 CSG
Calcium	3.42	mg/l	EPA 6020	0.2	10/15/2020 15:09 CSG
Chromium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:09 CSG
Cobalt	0.008	mg/l	EPA 6020	0.002	10/15/2020 15:09 CSG
Copper	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:09 CSG
Iron	2.78	mg/l	EPA 6020	0.05	10/15/2020 18:19 CSG
Lead	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:09 CSG
Nickel	0.005	mg/l	EPA 6020	0.002	10/15/2020 15:09 CSG
Magnesium	0.868	mg/l	EPA 6020	0.2	10/15/2020 15:09 CSG
Manganese	0.293	mg/l	EPA 6020	0.002	10/15/2020 15:09 CSG
Mercury	<0.0005	mg/l	EPA 7471	0.0005	10/22/2020 12:30 CSG
Potassium	0.569	mg/l	EPA 6020	0.2	10/15/2020 15:09 CSG

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MARTEL NO. 51035 000006

CLIENT SAMPLE IDENTIFICATION Well #8, QA-92-0331

Sample Date/Time 09/29/2020 13:32

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Selenium	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:09 CSG
Silver	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:09 CSG
Sodium	1.15	mg/l	EPA 6020	0.2	10/15/2020 15:09 CSG
Thallium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:09 CSG
Vanadium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:09 CSG
Zinc	<0.02	mg/l	EPA 6020	0.02	10/15/2020 15:09 CSG
Volatile Organic Compounds			EPA 8260B		10/08/2020 19:38 BJ
Acetone	ND	ug/l	EPA 8260B	5	10/08/2020 19:38 BJ
Acrylonitrile	ND	ug/l	EPA 8260B	5	10/08/2020 19:38 BJ
Benzene	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Bromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Bromodichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Bromoform	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Bromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Carbon disulfide	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Carbon tetrachloride	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Chlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Dibromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Chloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Chloroform	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Chloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Dibromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
1,2-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
1,3-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
1,4-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
trans-1,4-Dichloro-2-butene	ND	ug/l	EPA 8260B	5	10/08/2020 19:38 BJ
1,1-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
1,2-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
1,1-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
cis-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
trans-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
1,2-Dichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
cis-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
trans-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Ethylbenzene	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
2-Hexanone	ND	ug/l	EPA 8260B	5	10/08/2020 19:38 BJ
Iodomethane	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Dichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
2-Butanone	ND	ug/l	EPA 8260B	5	10/08/2020 19:38 BJ
Methyl-t-butyl ether	ND	ug/l	EPA 8260B	2	10/08/2020 19:38 BJ
4-Methyl-2-pentanone	ND	ug/l	EPA 8260B	5	10/08/2020 19:38 BJ
Styrene	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
1,1,1,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
1,1,2,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Tetrachloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ

MARTEL NO. 51035 000006 — CLIENT SAMPLE IDENTIFICATION: Well #8, QA-92-0331 — Sample Date/Time: 09/29/2020 13:32

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Toluene	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
1,1,1-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
1,1,2-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Trichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Trichlorofluoromethane	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
1,2,3-Trichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Vinyl acetate	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Vinyl chloride	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
Xylene, Total	ND	ug/l	EPA 8260B	1	10/08/2020 19:38 BJ
					/ /
Surrogate Spike					/ /
1,2-Dichloroethane-d4	70	%	EPA 8260B		10/08/2020 19:38 BJ
4-Bromofluorobenzene	88	%	EPA 8260B		10/08/2020 19:38 BJ
Dibromofluoromethane	97	%	EPA 8260B		10/08/2020 19:38 BJ
Toluene-d8	94	%	EPA 8260B		10/08/2020 19:38 BJ
					/ /
EDB and DBCP (Microextraction)			EPA 8011		10/15/2020 02:40 AK\
1,2-Dibromo-3-chloropropane	ND	ug/l	EPA 8011	1	10/15/2020 02:40 AK\
1,2-Dibromoethane	ND	ug/l	EPA 8011	1	10/15/2020 02:40 AK\

MARTEL NO. 51035 000007 — CLIENT SAMPLE IDENTIFICATION: Well #9, QA-92-0333 — Sample Date/Time: 09/29/2020 14:04

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Depth to Water	5.90	ft		0.01	09/29/2020 13:47 TM
Temperature	20.0	deg C	SM 2550B-00		09/29/2020 14:04 TM
pH	5.23	units	EPA 9040		09/29/2020 14:04 TM
Oxidation-reduction potential	150	mv	SM 2580		09/29/2020 14:04 TM
Specific Conductance	0.210	mS/cm	EPA 9050	0.1	09/29/2020 14:04 TM
Turbidity	<5	ntu	SM 2130-B	5	09/29/2020 14:04 TM
Dissolved Oxygen	<0.1	mg/l	EPA 360.1	0.1	09/29/2020 14:04 TM
Alkalinity, total (as CaCO3)	25	mg/l	SM 2320 B-97	20	10/05/2020 13:30 AE
Chloride	35	mg/l	SM 4500-Cl E-97	1	10/13/2020 15:17 CSG
Total Dissolved Solids	380	mg/l	SM 2540C-97	25	09/30/2020 10:00 CB
Hardness (total)	130	mg/l	SM 2340 C	1	10/20/2020 09:05 AE
Sulfate	81	mg/l	EPA 9038	10	10/14/2020 10:00 MA
Nitrite Nitrogen	<0.02	mg/l	SM 4500-NO2 B00	0.02	09/30/2020 16:17 CSG
Nitrate Nitrogen	0.24	mg/l	EPA 9210	0.05	10/12/2020 12:41 CSG
Nitrate-Nitrite Nitrogen	0.24	mg/l	SM 4500-NO3 H00	0.05	10/12/2020 12:41 CSG
Chemical Oxygen Demand	<10	mg/l	SM 5220 D	10	10/07/2020 08:30 CB
Ammonia Nitrogen	<0.2	mg/l	SM 4500-NH3 C97	0.2	10/06/2020 12:30 CB
Antimony	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:12 CSG
Arsenic	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:12 CSG
Barium	0.076	mg/l	EPA 6020	0.005	10/15/2020 15:12 CSG
Beryllium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:12 CSG

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Certificate of Analysis

MARTEL NO. 51035 000007

CLIENT SAMPLE IDENTIFICATION Well #9, QA-92-0333

Sample Date/Time 09/29/2020 14:04

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Cadmium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:12 CSG
Calcium	37.4	mg/l	EPA 6020	0.2	10/15/2020 18:25 CSG
Chromium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:12 CSG
Cobalt	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:12 CSG
Copper	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:12 CSG
Iron	<0.05	mg/l	EPA 6020	0.05	10/15/2020 15:12 CSG
Lead	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:12 CSG
Nickel	0.004	mg/l	EPA 6020	0.002	10/15/2020 15:12 CSG
Magnesium	4.52	mg/l	EPA 6020	0.2	10/15/2020 15:12 CSG
Manganese	0.014	mg/l	EPA 6020	0.002	10/15/2020 15:12 CSG
Mercury	0.0019	mg/l	EPA 7471	0.0005	10/22/2020 12:30 CSG
Potassium	3.36	mg/l	EPA 6020	0.2	10/15/2020 15:12 CSG
Selenium	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:12 CSG
Silver	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:12 CSG
Sodium	13	mg/l	EPA 6020	0.2	10/15/2020 18:22 CSG
Thallium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:12 CSG
Vanadium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:12 CSG
Zinc	<0.02	mg/l	EPA 6020	0.02	10/15/2020 15:12 CSG
Volatile Organic Compounds			EPA 8260B		10/08/2020 20:19 BJ
Acetone	ND	ug/l	EPA 8260B	5	10/08/2020 20:19 BJ
Acrylonitrile	ND	ug/l	EPA 8260B	5	10/08/2020 20:19 BJ
Benzene	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Bromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Bromodichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Bromoform	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Bromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Carbon disulfide	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Carbon tetrachloride	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Chlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Dibromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Chloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Chloroform	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Chloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Dibromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
1,2-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
1,3-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
1,4-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
trans-1,4-Dichloro-2-butene	ND	ug/l	EPA 8260B	5	10/08/2020 20:19 BJ
1,1-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
1,2-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
1,1-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
cis-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
trans-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
1,2-Dichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
cis-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ

MARTEL NO. 51035 000007 — CLIENT SAMPLE IDENTIFICATION: Well #9, QA-92-0333 — Sample Date/Time: 09/29/2020 14:04

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
trans-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Ethylbenzene	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
2-Hexanone	ND	ug/l	EPA 8260B	5	10/08/2020 20:19 BJ
Iodomethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Dichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
2-Butanone	ND	ug/l	EPA 8260B	5	10/08/2020 20:19 BJ
Methyl-t-butyl ether	ND	ug/l	EPA 8260B	2	10/08/2020 20:19 BJ
4-Methyl-2-pentanone	ND	ug/l	EPA 8260B	5	10/08/2020 20:19 BJ
Styrene	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
1,1,1,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
1,1,2,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Tetrachloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Toluene	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
1,1,1-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
1,1,2-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Trichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Trichlorofluoromethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
1,2,3-Trichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Vinyl acetate	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Vinyl chloride	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
Xylene, Total	ND	ug/l	EPA 8260B	1	10/08/2020 20:19 BJ
					/ /
Surrogate Spike					/ /
1,2-Dichloroethane-d4	68	%	EPA 8260B		10/08/2020 20:19 BJ
4-Bromofluorobenzene	86	%	EPA 8260B		10/08/2020 20:19 BJ
Dibromofluoromethane	99	%	EPA 8260B		10/08/2020 20:19 BJ
Toluene-d8	96	%	EPA 8260B		10/08/2020 20:19 BJ
					/ /
EDB and DBCP (Microextraction)			EPA 8011		10/15/2020 04:08 AK\
1,2-Dibromo-3-chloropropane	ND	ug/l	EPA 8011	1	10/15/2020 04:08 AK\
1,2-Dibromoethane	ND	ug/l	EPA 8011	1	10/15/2020 04:08 AK\

MARTEL NO. 51035 000008 — CLIENT SAMPLE IDENTIFICATION: Well #10, QA-92-0334 — Sample Date/Time: 09/29/2020 14:49

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Depth to Water	6.60	ft		0.01	09/29/2020 14:30 TM
Temperature	20.5	deg C	SM 2550B-00		09/29/2020 14:49 TM
pH	6.20	units	EPA 9040		09/29/2020 14:49 TM
Oxidation-reduction potential	176	mv	SM 2580		09/29/2020 14:49 TM
Specific Conductance	0.482	mS/cm	EPA 9050	0.1	09/29/2020 14:49 TM
Turbidity	<5	ntu	SM 2130-B	5	09/29/2020 14:49 TM
Dissolved Oxygen	<0.1	mg/l	EPA 360.1	0.1	09/29/2020 14:49 TM
Alkalinity, total (as CaCO3)	100	mg/l	SM 2320 B-97	20	10/05/2020 13:30 AE
Chloride	65	mg/l	SM 4500-Cl E-97	1	10/22/2020 13:18 CSG

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MARTEL NO. 51035 000008

CLIENT SAMPLE IDENTIFICATION Well #10, QA-92-0334

Sample Date/Time 09/29/2020 14:49

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Total Dissolved Solids	570	mg/l	SM 2540C-97	25	09/30/2020 10:00 CB
Hardness (total)	280	mg/l	SM 2340 C	1	10/20/2020 09:05 AE
Sulfate	210	mg/l	EPA 9038	10	10/14/2020 10:00 MA
Nitrite Nitrogen	<0.02	mg/l	SM 4500-NO2 B00	0.02	09/30/2020 16:17 CSG
Nitrate Nitrogen	0.10	mg/l	EPA 9210	0.05	10/14/2020 15:42 CSG
Nitrate-Nitrite Nitrogen	0.10	mg/l	SM 4500-NO3 H00	0.05	10/14/2020 15:42 CSG
Chemical Oxygen Demand	21	mg/l	SM 5220 D	10	10/07/2020 08:30 CB
Ammonia Nitrogen	<0.2	mg/l	SM 4500-NH3 C97	0.2	10/06/2020 12:30 CB
Antimony	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:14 CSG
Arsenic	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:14 CSG
Barium	0.12	mg/l	EPA 6020	0.005	10/15/2020 15:14 CSG
Beryllium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:14 CSG
Cadmium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:14 CSG
Calcium	76.6	mg/l	EPA 6020	0.2	10/15/2020 18:34 CSG
Chromium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:14 CSG
Cobalt	0.003	mg/l	EPA 6020	0.002	10/15/2020 15:14 CSG
Copper	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:14 CSG
Iron	0.23	mg/l	EPA 6020	0.05	10/15/2020 15:14 CSG
Lead	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:14 CSG
Nickel	0.006	mg/l	EPA 6020	0.002	10/15/2020 15:14 CSG
Magnesium	17.8	mg/l	EPA 6020	0.2	10/15/2020 18:28 CSG
Manganese	2.75	mg/l	EPA 6020	0.002	10/15/2020 18:31 CSG
Mercury	<0.0005	mg/l	EPA 7471	0.0005	10/22/2020 12:30 CSG
Potassium	3.76	mg/l	EPA 6020	0.2	10/15/2020 15:14 CSG
Selenium	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:14 CSG
Silver	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:14 CSG
Sodium	41.9	mg/l	EPA 6020	0.2	10/15/2020 18:31 CSG
Thallium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:14 CSG
Vanadium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:14 CSG
Zinc	<0.02	mg/l	EPA 6020	0.02	10/15/2020 15:14 CSG
Volatile Organic Compounds			EPA 8260B		10/08/2020 20:59 BJ
Acetone	ND	ug/l	EPA 8260B	5	10/08/2020 20:59 BJ
Acrylonitrile	ND	ug/l	EPA 8260B	5	10/08/2020 20:59 BJ
Benzene	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Bromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Bromodichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Bromoform	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Bromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Carbon disulfide	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Carbon tetrachloride	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Chlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Dibromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Chloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Chloroform	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Chloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ

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Certificate of Analysis

MARTEL NO. 51035 000008

CLIENT SAMPLE IDENTIFICATION Well #10, QA-92-0334

Sample Date/Time 09/29/2020 14:49

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Dibromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
1,2-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
1,3-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
1,4-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
trans-1,4-Dichloro-2-butene	ND	ug/l	EPA 8260B	5	10/08/2020 20:59 BJ
1,1-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
1,2-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
1,1-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
cis-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
trans-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
1,2-Dichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
cis-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
trans-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Ethylbenzene	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
2-Hexanone	ND	ug/l	EPA 8260B	5	10/08/2020 20:59 BJ
Iodomethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Dichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
2-Butanone	ND	ug/l	EPA 8260B	5	10/08/2020 20:59 BJ
Methyl-t-butyl ether	ND	ug/l	EPA 8260B	2	10/08/2020 20:59 BJ
4-Methyl-2-pentanone	ND	ug/l	EPA 8260B	5	10/08/2020 20:59 BJ
Styrene	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
1,1,1,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
1,1,2,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Tetrachloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Toluene	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
1,1,1-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
1,1,2-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Trichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Trichlorofluoromethane	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
1,2,3-Trichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Vinyl acetate	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Vinyl chloride	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
Xylene, Total	ND	ug/l	EPA 8260B	1	10/08/2020 20:59 BJ
					/ /
Surrogate Spike					/ /
1,2-Dichloroethane-d4	70	%	EPA 8260B		10/08/2020 20:59 BJ
4-Bromofluorobenzene	89	%	EPA 8260B		10/08/2020 20:59 BJ
Dibromofluoromethane	94	%	EPA 8260B		10/08/2020 20:59 BJ
Toluene-d8	94	%	EPA 8260B		10/08/2020 20:59 BJ
					/ /
EDB and DBCP (Microextraction)			EPA 8011		10/15/2020 04:37 AK\
1,2-Dibromo-3-chloropropane	ND	ug/l	EPA 8011	1	10/15/2020 04:37 AK\
1,2-Dibromoethane	ND	ug/l	EPA 8011	1	10/15/2020 04:37 AK\

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Certificate of Analysis

MARTEL NO. 51035 000009

CLIENT SAMPLE IDENTIFICATION Well #11, QA-94-0355

Sample Date/Time 09/29/2020 12:30

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Depth to Water	14.55	ft		0.01	09/29/2020 12:16 TM
Temperature	17.1	deg C	SM 2550B-00		09/29/2020 12:30 TM
pH	4.49	units	EPA 9040		09/29/2020 12:30 TM
Oxidation-reduction potential	415	mv	SM 2580		09/29/2020 12:30 TM
Specific Conductance	0.260	mS/cm	EPA 9050	0.1	09/29/2020 12:30 TM
Turbidity	<5	ntu	SM 2130-B	5	09/29/2020 12:30 TM
Dissolved Oxygen	<0.1	mg/l	EPA 360.1	0.1	09/29/2020 12:30 TM
Alkalinity, total (as CaCO3)	<20	mg/l	SM 2320 B-97	20	10/05/2020 13:30 AE
Chloride	65	mg/l	SM 4500-Cl E-97	1	10/22/2020 13:18 CSG
Total Dissolved Solids	270	mg/l	SM 2540C-97	25	09/30/2020 10:00 CB
Hardness (total)	100	mg/l	SM 2340 C	1	10/20/2020 09:05 AE
Sulfate	86	mg/l	EPA 9038	10	10/14/2020 10:00 MA
Nitrite Nitrogen	<0.02	mg/l	SM 4500-NO2 B00	0.02	09/30/2020 16:17 CSG
Nitrate Nitrogen	0.06	mg/l	EPA 9210	0.05	10/14/2020 15:42 CSG
Nitrate-Nitrite Nitrogen	0.06	mg/l	SM 4500-NO3 H00	0.05	10/14/2020 15:42 CSG
Chemical Oxygen Demand	<10	mg/l	SM 5220 D	10	10/07/2020 08:30 CB
Ammonia Nitrogen	<0.2	mg/l	SM 4500-NH3 C97	0.2	10/09/2020 08:15 CB
Antimony	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:32 CSG
Arsenic	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:32 CSG
Barium	0.045	mg/l	EPA 6020	0.005	10/15/2020 15:32 CSG
Beryllium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:32 CSG
Cadmium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:32 CSG
Calcium	9.27	mg/l	EPA 6020	0.2	10/19/2020 15:51 CSG
Chromium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:32 CSG
Cobalt	0.009	mg/l	EPA 6020	0.002	10/15/2020 15:32 CSG
Copper	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:32 CSG
Iron	0.136	mg/l	EPA 6020	0.05	10/15/2020 15:32 CSG
Lead	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:32 CSG
Nickel	0.003	mg/l	EPA 6020	0.002	10/15/2020 15:32 CSG
Magnesium	9.62	mg/l	EPA 6020	0.2	10/19/2020 15:51 CSG
Manganese	0.145	mg/l	EPA 6020	0.002	10/15/2020 15:32 CSG
Mercury	<0.0005	mg/l	EPA 7471	0.0005	10/22/2020 12:30 CSG
Potassium	1.82	mg/l	EPA 6020	0.2	10/15/2020 15:32 CSG
Selenium	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:32 CSG
Silver	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:32 CSG
Sodium	45.4	mg/l	EPA 6020	0.2	10/19/2020 15:53 CSG
Thallium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:32 CSG
Vanadium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:32 CSG
Zinc	<0.02	mg/l	EPA 6020	0.02	10/15/2020 15:32 CSG
Volatile Organic Compounds			EPA 8260B		10/08/2020 21:40 BJ
Acetone	ND	ug/l	EPA 8260B	5	10/08/2020 21:40 BJ
Acrylonitrile	ND	ug/l	EPA 8260B	5	10/08/2020 21:40 BJ
Benzene	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Bromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Bromodichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ

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Certificate of Analysis

MARTEL NO. 51035 000009

CLIENT SAMPLE IDENTIFICATION Well #11, QA-94-0355

Sample Date/Time 09/29/2020 12:30

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Bromoform	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Bromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Carbon disulfide	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Carbon tetrachloride	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Chlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Dibromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Chloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Chloroform	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Chloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Dibromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
1,2-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
1,3-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
1,4-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
trans-1,4-Dichloro-2-butene	ND	ug/l	EPA 8260B	5	10/08/2020 21:40 BJ
1,1-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
1,2-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
1,1-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
cis-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
trans-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
1,2-Dichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
cis-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
trans-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Ethylbenzene	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
2-Hexanone	ND	ug/l	EPA 8260B	5	10/08/2020 21:40 BJ
Iodomethane	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Dichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
2-Butanone	ND	ug/l	EPA 8260B	5	10/08/2020 21:40 BJ
Methyl-t-butyl ether	ND	ug/l	EPA 8260B	2	10/08/2020 21:40 BJ
4-Methyl-2-pentanone	ND	ug/l	EPA 8260B	5	10/08/2020 21:40 BJ
Styrene	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
1,1,1,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
1,1,2,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Tetrachloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Toluene	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
1,1,1-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
1,1,2-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Trichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Trichlorofluoromethane	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
1,2,3-Trichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Vinyl acetate	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Vinyl chloride	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
Xylene, Total	ND	ug/l	EPA 8260B	1	10/08/2020 21:40 BJ
					/ /
Surrogate Spike					/ /
1,2-Dichloroethane-d4	71	%	EPA 8260B		10/08/2020 21:40 BJ

MARTEL NO. 51035 000009 — CLIENT SAMPLE IDENTIFICATION: Well #11, QA-94-0355 — Sample Date/Time: 09/29/2020 12:30

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
4-Bromofluorobenzene	89	%	EPA 8260B		10/08/2020 21:40 BJ
Dibromofluoromethane	96	%	EPA 8260B		10/08/2020 21:40 BJ
Toluene-d8	95	%	EPA 8260B		10/08/2020 21:40 BJ
					/ /
EDB and DBCP (Microextraction)			EPA 8011		10/15/2020 05:06 AK\
1,2-Dibromo-3-chloropropane	ND	ug/l	EPA 8011	1	10/15/2020 05:06 AK\
1,2-Dibromoethane	ND	ug/l	EPA 8011	1	10/15/2020 05:06 AK\

MARTEL NO. 51035 000010 — CLIENT SAMPLE IDENTIFICATION: Pond — Sample Date/Time: 09/29/2020 17:20

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Temperature	24.5	deg C	SM 2550B-00		09/29/2020 17:20 TM
pH	8.21	units	EPA 9040		09/29/2020 17:20 TM
Oxidation-reduction potential	53	mv	SM 2580		09/29/2020 17:20 TM
Specific Conductance	0.191	mS/cm	EPA 9050	0.1	09/29/2020 17:20 TM
Turbidity	0.1	ntu	SM 2130-B	0.1	09/29/2020 17:20 TM
Dissolved Oxygen	6.50	mg/l	EPA 360.1	0.1	09/29/2020 17:20 TM
Alkalinity, total (as CaCO3)	94	mg/l	SM 2320 B-97	20	10/05/2020 13:30 AE
Chloride	24	mg/l	SM 4500-Cl E-97	1	10/13/2020 15:17 CSG
Total Dissolved Solids	210	mg/l	SM 2540C-97	25	09/30/2020 10:00 CB
Hardness (total)	130	mg/l	SM 2340 C	1	10/20/2020 09:05 AE
Sulfate	15	mg/l	EPA 9038	10	10/14/2020 10:00 MA
Nitrite Nitrogen	<0.02	mg/l	SM 4500-NO2 B00	0.02	09/30/2020 16:17 CSG
Nitrate Nitrogen	<0.05	mg/l	EPA 9210	0.05	10/14/2020 15:42 CSG
Nitrate-Nitrite Nitrogen	<0.05	mg/l	SM 4500-NO3 H00	0.05	10/14/2020 15:42 CSG
Chemical Oxygen Demand	19	mg/l	SM 5220 D	10	10/07/2020 08:30 CB
Ammonia Nitrogen	<0.2	mg/l	SM 4500-NH3 C97	0.2	10/09/2020 08:15 CB
Antimony	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:37 CSG
Arsenic	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:37 CSG
Barium	0.023	mg/l	EPA 6020	0.005	10/15/2020 15:37 CSG
Beryllium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:37 CSG
Cadmium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:37 CSG
Calcium	21.4	mg/l	EPA 6020	0.2	10/19/2020 16:01 CSG
Chromium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:37 CSG
Cobalt	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:37 CSG
Copper	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:37 CSG
Iron	<0.05	mg/l	EPA 6020	0.05	10/15/2020 15:37 CSG
Lead	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:37 CSG
Nickel	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:37 CSG
Magnesium	11.2	mg/l	EPA 6020	0.2	10/19/2020 15:59 CSG
Manganese	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:37 CSG
Mercury	<0.0005	mg/l	EPA 7471	0.0005	10/22/2020 12:30 CSG
Potassium	4.04	mg/l	EPA 6020	0.2	10/15/2020 15:37 CSG
Selenium	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:37 CSG

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MARTEL NO. 51035 000010 Pond

CLIENT SAMPLE IDENTIFICATION

Sample Date/Time 09/29/2020 17:20

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Silver	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:37 CSG
Sodium	18	mg/l	EPA 6020	0.2	10/19/2020 15:59 CSG
Thallium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:37 CSG
Vanadium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:37 CSG
Zinc	<0.02	mg/l	EPA 6020	0.02	10/15/2020 15:37 CSG
Volatile Organic Compounds			EPA 8260B		10/08/2020 22:21 BJ
Acetone	ND	ug/l	EPA 8260B	5	10/08/2020 22:21 BJ
Acrylonitrile	ND	ug/l	EPA 8260B	5	10/08/2020 22:21 BJ
Benzene	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Bromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Bromodichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Bromoform	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Bromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Carbon disulfide	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Carbon tetrachloride	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Chlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Dibromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Chloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Chloroform	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Chloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Dibromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
1,2-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
1,3-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
1,4-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
trans-1,4-Dichloro-2-butene	ND	ug/l	EPA 8260B	5	10/08/2020 22:21 BJ
1,1-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
1,2-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
1,1-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
cis-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
trans-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
1,2-Dichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
cis-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
trans-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Ethylbenzene	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
2-Hexanone	ND	ug/l	EPA 8260B	5	10/08/2020 22:21 BJ
Iodomethane	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Dichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
2-Butanone	ND	ug/l	EPA 8260B	5	10/08/2020 22:21 BJ
Methyl-t-butyl ether	ND	ug/l	EPA 8260B	2	10/08/2020 22:21 BJ
4-Methyl-2-pentanone	ND	ug/l	EPA 8260B	5	10/08/2020 22:21 BJ
Styrene	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
1,1,1,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
1,1,2,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Tetrachloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Toluene	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ

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MARTEL NO. 51035 | CLIENT SAMPLE IDENTIFICATION 000010 Pond | Sample Date/Time 09/29/2020 17:20

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
1,1,1-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
1,1,2-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Trichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Trichlorofluoromethane	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
1,2,3-Trichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Vinyl acetate	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Vinyl chloride	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
Xylene, Total	ND	ug/l	EPA 8260B	1	10/08/2020 22:21 BJ
					/ /
Surrogate Spike					/ /
1,2-Dichloroethane-d4	69	%	EPA 8260B		10/08/2020 22:21 BJ
4-Bromofluorobenzene	85	%	EPA 8260B		10/08/2020 22:21 BJ
Dibromofluoromethane	91	%	EPA 8260B		10/08/2020 22:21 BJ
Toluene-d8	94	%	EPA 8260B		10/08/2020 22:21 BJ
					/ /
EDB and DBCP (Microextraction)			EPA 8011		10/15/2020 05:36 AK\
1,2-Dibromo-3-chloropropane	ND	ug/l	EPA 8011	1	10/15/2020 05:36 AK\
1,2-Dibromoethane	ND	ug/l	EPA 8011	1	10/15/2020 05:36 AK\

MARTEL NO. 51035 | CLIENT SAMPLE IDENTIFICATION 000011 Well #9, DUP | Sample Date/Time 09/29/2020 14:04

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Alkalinity, total (as CaCO3)	25	mg/l	SM 2320 B-97	20	10/05/2020 13:30 AE
Chloride	36	mg/l	SM 4500-Cl E-97	1	10/13/2020 15:17 CSG
Total Dissolved Solids	190	mg/l	SM 2540C-97	25	09/30/2020 10:00 CB
Hardness (total)	130	mg/l	SM 2340 C	1	10/20/2020 09:05 AE
Sulfate	77	mg/l	EPA 9038	10	10/14/2020 10:00 MA
Nitrite Nitrogen	<0.02	mg/l	SM 4500-NO2 B00	0.02	09/30/2020 16:17 CSG
Nitrate Nitrogen	0.22	mg/l	EPA 9210	0.05	10/14/2020 15:42 CSG
Nitrate-Nitrite Nitrogen	0.22	mg/l	SM 4500-NO3 H00	0.05	10/14/2020 15:42 CSG
Chemical Oxygen Demand	<10	mg/l	SM 5220 D	10	10/07/2020 08:30 CB
Ammonia Nitrogen	<0.2	mg/l	SM 4500-NH3 C97	0.2	10/09/2020 08:15 CB
Antimony	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:40 CSG
Arsenic	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:40 CSG
Barium	0.074	mg/l	EPA 6020	0.005	10/15/2020 15:40 CSG
Beryllium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:40 CSG
Cadmium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:40 CSG
Calcium	37.3	mg/l	EPA 6020	0.2	10/15/2020 18:40 CSG
Chromium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:40 CSG
Cobalt	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:40 CSG
Copper	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:40 CSG
Iron	<0.05	mg/l	EPA 6020	0.05	10/15/2020 15:40 CSG
Lead	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:40 CSG
Nickel	0.004	mg/l	EPA 6020	0.002	10/15/2020 15:40 CSG

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MARTEL NO. 51035 | CLIENT SAMPLE IDENTIFICATION 000011 Well #9, DUP | Sample Date/Time 09/29/2020 14:04

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Magnesium	4.58	mg/l	EPA 6020	0.2	10/15/2020 15:40 CSG
Manganese	0.014	mg/l	EPA 6020	0.002	10/15/2020 15:40 CSG
Mercury	0.0018	mg/l	EPA 7471	0.0005	10/22/2020 12:30 CSG
Potassium	3.36	mg/l	EPA 6020	0.2	10/15/2020 15:40 CSG
Selenium	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:40 CSG
Silver	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:40 CSG
Sodium	12.8	mg/l	EPA 6020	0.2	10/15/2020 18:37 CSG
Thallium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:40 CSG
Vanadium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:40 CSG
Zinc	<0.02	mg/l	EPA 6020	0.02	10/15/2020 15:40 CSG
Volatile Organic Compounds			EPA 8260B		10/08/2020 23:02 BJ
Acetone	ND	ug/l	EPA 8260B	5	10/08/2020 23:02 BJ
Acrylonitrile	ND	ug/l	EPA 8260B	5	10/08/2020 23:02 BJ
Benzene	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Bromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Bromodichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Bromoform	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Bromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Carbon disulfide	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Carbon tetrachloride	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Chlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Dibromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Chloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Chloroform	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Chloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Dibromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
1,2-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
1,3-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
1,4-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
trans-1,4-Dichloro-2-butene	ND	ug/l	EPA 8260B	5	10/08/2020 23:02 BJ
1,1-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
1,2-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
1,1-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
cis-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
trans-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
1,2-Dichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
cis-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
trans-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Ethylbenzene	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
2-Hexanone	ND	ug/l	EPA 8260B	5	10/08/2020 23:02 BJ
Iodomethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Dichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
2-Butanone	ND	ug/l	EPA 8260B	5	10/08/2020 23:02 BJ
Methyl-t-butyl ether	ND	ug/l	EPA 8260B	2	10/08/2020 23:02 BJ
4-Methyl-2-pentanone	ND	ug/l	EPA 8260B	5	10/08/2020 23:02 BJ

MARTEL NO. 51035 | CLIENT SAMPLE IDENTIFICATION 000011 Well #9, DUP | Sample Date/Time 09/29/2020 14:04

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Styrene	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
1,1,1,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
1,1,2,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Tetrachloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Toluene	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
1,1,1-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
1,1,2-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Trichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Trichlorofluoromethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
1,2,3-Trichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Vinyl acetate	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Vinyl chloride	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
Xylene, Total	ND	ug/l	EPA 8260B	1	10/08/2020 23:02 BJ
					/ /
Surrogate Spike					/ /
1,2-Dichloroethane-d4	67	%	EPA 8260B		10/08/2020 23:02 BJ
4-Bromofluorobenzene	90	%	EPA 8260B		10/08/2020 23:02 BJ
Dibromofluoromethane	91	%	EPA 8260B		10/08/2020 23:02 BJ
Toluene-d8	94	%	EPA 8260B		10/08/2020 23:02 BJ
					/ /
EDB and DBCP (Microextraction)			EPA 8011		10/15/2020 06:05 AK\
1,2-Dibromo-3-chloropropane	ND	ug/l	EPA 8011	1	10/15/2020 06:05 AK\
1,2-Dibromoethane	ND	ug/l	EPA 8011	1	10/15/2020 06:05 AK\

MARTEL NO. 51035 | CLIENT SAMPLE IDENTIFICATION 0012FB Field Blank | Sample Date/Time 09/29/2020 14:20

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Alkalinity, total (as CaCO3)	<20	mg/l	SM 2320 B-97	20	10/05/2020 13:30 AE
Chloride	<1.0	mg/l	SM 4500-Cl E-97	1	10/13/2020 15:17 CSG
Total Dissolved Solids	78	mg/l	SM 2540C-97	25	09/30/2020 10:00 CB
Hardness (total)	<1	mg/l	SM 2340 C	1	10/20/2020 09:05 AE
Sulfate	<10	mg/l	EPA 9038	10	10/14/2020 10:00 MA
Nitrite Nitrogen	<0.02	mg/l	SM 4500-NO2 B00	0.02	09/30/2020 16:17 CSG
Nitrate Nitrogen	<0.05	mg/l	EPA 9210	0.05	10/14/2020 15:42 CSG
Nitrate-Nitrite Nitrogen	<0.05	mg/l	SM 4500-NO3 H00	0.05	10/14/2020 15:42 CSG
Chemical Oxygen Demand	<10	mg/l	SM 5220 D	10	10/07/2020 08:30 CB
Ammonia Nitrogen	<0.2	mg/l	SM 4500-NH3 C97	0.2	10/09/2020 08:15 CB
Antimony	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:42 CSG
Arsenic	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:42 CSG
Barium	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:42 CSG
Beryllium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:42 CSG
Cadmium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:42 CSG
Calcium	<0.2	mg/l	EPA 6020	0.2	10/15/2020 15:42 CSG
Chromium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:42 CSG

MARTEL NO. 51035 | CLIENT SAMPLE IDENTIFICATION 0012FB Field Blank | Sample Date/Time 09/29/2020 14:20

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Cobalt	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:42 CSG
Copper	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:42 CSG
Iron	<0.05	mg/l	EPA 6020	0.05	10/15/2020 15:42 CSG
Lead	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:42 CSG
Nickel	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:42 CSG
Magnesium	<0.2	mg/l	EPA 6020	0.2	10/15/2020 15:42 CSG
Manganese	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:42 CSG
Mercury	<0.0005	mg/l	EPA 7471	0.0005	10/22/2020 12:30 CSG
Potassium	<0.2	mg/l	EPA 6020	0.2	10/15/2020 15:42 CSG
Selenium	<0.005	mg/l	EPA 6020	0.005	10/15/2020 15:42 CSG
Silver	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:42 CSG
Sodium	<0.2	mg/l	EPA 6020	0.2	10/15/2020 15:42 CSG
Thallium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:42 CSG
Vanadium	<0.002	mg/l	EPA 6020	0.002	10/15/2020 15:42 CSG
Zinc	<0.02	mg/l	EPA 6020	0.02	10/15/2020 15:42 CSG
Volatile Organic Compounds			EPA 8260B		10/08/2020 23:42 BJ
Acetone	ND	ug/l	EPA 8260B	5	10/08/2020 23:42 BJ
Acrylonitrile	ND	ug/l	EPA 8260B	5	10/08/2020 23:42 BJ
Benzene	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Bromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Bromodichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Bromoform	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Bromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Carbon disulfide	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Carbon tetrachloride	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Chlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Dibromochloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Chloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Chloroform	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Chloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Dibromomethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
1,2-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
1,3-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
1,4-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
trans-1,4-Dichloro-2-butene	ND	ug/l	EPA 8260B	5	10/08/2020 23:42 BJ
1,1-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
1,2-Dichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
1,1-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
cis-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
trans-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
1,2-Dichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
cis-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
trans-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Ethylbenzene	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
2-Hexanone	ND	ug/l	EPA 8260B	5	10/08/2020 23:42 BJ

MARTEL NO. 51035 | CLIENT SAMPLE IDENTIFICATION 0012FB Field Blank | Sample Date/Time 09/29/2020 14:20

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Iodomethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Dichloromethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
2-Butanone	ND	ug/l	EPA 8260B	5	10/08/2020 23:42 BJ
Methyl-t-butyl ether	ND	ug/l	EPA 8260B	2	10/08/2020 23:42 BJ
4-Methyl-2-pentanone	ND	ug/l	EPA 8260B	5	10/08/2020 23:42 BJ
Styrene	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
1,1,1,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
1,1,2,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Tetrachloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Toluene	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
1,1,1-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
1,1,2-Trichloroethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Trichloroethene	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Trichlorofluoromethane	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
1,2,3-Trichloropropane	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Vinyl acetate	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Vinyl chloride	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
Xylene, Total	ND	ug/l	EPA 8260B	1	10/08/2020 23:42 BJ
					/ /
Surrogate Spike					/ /
1,2-Dichloroethane-d4	75	%	EPA 8260B		10/08/2020 23:42 BJ
4-Bromofluorobenzene	87	%	EPA 8260B		10/08/2020 23:42 BJ
Dibromofluoromethane	91	%	EPA 8260B		10/08/2020 23:42 BJ
Toluene-d8	95	%	EPA 8260B		10/08/2020 23:42 BJ
					/ /
EDB and DBCP (Microextraction)			EPA 8011		10/15/2020 06:34 AK\
1,2-Dibromo-3-chloropropane	ND	ug/l	EPA 8011	1	10/15/2020 06:34 AK\
1,2-Dibromoethane	ND	ug/l	EPA 8011	1	10/15/2020 06:34 AK\

MARTEL NO. 51035 | CLIENT SAMPLE IDENTIFICATION 0013TB Trip Blank | Sample Date/Time 09/29/2020 07:30

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Volatile Organic Compounds			EPA 8260B		10/09/2020 15:47 BJ
Acetone	ND	ug/l	EPA 8260B	5	10/09/2020 15:47 BJ
Acrylonitrile	ND	ug/l	EPA 8260B	5	10/09/2020 15:47 BJ
Benzene	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Bromochloromethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Bromodichloromethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Bromoform	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Bromomethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Carbon disulfide	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Carbon tetrachloride	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Chlorobenzene	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Dibromochloromethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ

MARTEL

Certificate of Analysis

MARTEL NO. 51035 | CLIENT SAMPLE IDENTIFICATION 0013TB Trip Blank | Sample Date/Time 09/29/2020 07:30

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Chloroethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Chloroform	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Chloromethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Dibromomethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
1,2-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
1,3-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
1,4-Dichlorobenzene	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
trans-1,4-Dichloro-2-butene	ND	ug/l	EPA 8260B	5	10/09/2020 15:47 BJ
1,1-Dichloroethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
1,2-Dichloroethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
1,1-Dichloroethene	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
cis-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
trans-1,2-Dichloroethene	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
1,2-Dichloropropane	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
cis-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
trans-1,3-Dichloropropene	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Ethylbenzene	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
2-Hexanone	ND	ug/l	EPA 8260B	5	10/09/2020 15:47 BJ
Iodomethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Dichloromethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
2-Butanone	ND	ug/l	EPA 8260B	5	10/09/2020 15:47 BJ
Methyl-t-butyl ether	ND	ug/l	EPA 8260B	2	10/09/2020 15:47 BJ
4-Methyl-2-pentanone	ND	ug/l	EPA 8260B	5	10/09/2020 15:47 BJ
Styrene	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
1,1,1,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
1,1,2,2-Tetrachloroethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Tetrachloroethene	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Toluene	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
1,1,1-Trichloroethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
1,1,2-Trichloroethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Trichloroethene	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Trichlorofluoromethane	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
1,2,3-Trichloropropane	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Vinyl acetate	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Vinyl chloride	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
Xylene, Total	ND	ug/l	EPA 8260B	1	10/09/2020 15:47 BJ
					/ /
Surrogate Spike					/ /
1,2-Dichloroethane-d4	67	%	EPA 8260B		10/09/2020 15:47 BJ
4-Bromofluorobenzene	86	%	EPA 8260B		10/09/2020 15:47 BJ
Dibromofluoromethane	89	%	EPA 8260B		10/09/2020 15:47 BJ
Toluene-d8	92	%	EPA 8260B		10/09/2020 15:47 BJ
					/ /
EDB and DBCP (Microextraction)			EPA 8011		10/15/2020 07:03 AK\
1,2-Dibromo-3-chloropropane	ND	ug/l	EPA 8011	1	10/15/2020 07:03 AK\

MARTEL

Certificate of Analysis

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
51035 0013TB	Trip Blank	09/29/2020 07:30

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
1,2-Dibromoethane	ND	ug/l	EPA 8011	1	10/15/2020 07:03 AK\

LOW FLOW SAMPLING
DATA SHEET

SITE: RB Baker RubbleFill
DATE: 9/29/20
WEATHER: sunny 80°F humid

CONSULTING FIRM: Martel
FIELD PERSONNEL: Tom Merashoff

MONITOR WELL MW-3 **WELL DEPTH:** _____ **SCREENED/OPEN INTERVAL:** _____
WELL PERMIT #: QA-88-0872 **WELL DIAMETER:** 4 Inches

PID/FID READINGS
BACKGROUND: _____
BENEATH OUTER CAP: _____
BENEATH INNER CAP: _____

PUMP INTAKE DEPTH: _____ ft below TOC
DEPTH TO WATER from top of Steel Casing: 5.10 ft below TOC

TIME	PURGING	SAMPLING	TEMPERATURE (degrees C)		pH (pH units)		REDOX POTENTIAL (mv)		SPECIFIC CONDUCTIVITY (mS/cm)		TURBIDITY (NTU)		DISSOLVED OXYGEN (mg/l)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	~125	
1510	X			NA		NA		NA		NA		NA		NA	~100	
1520	X		19.4		6.52		121		.380		<5		<0.1		~100	5.15
1525	X		19.3		6.55		79		.385		<5		<0.1		~100	5.14
1530	X		19.1		6.57		58		.389		<5		<0.1		~100	5.15
1535	X		19.0		6.58		50		.391		<5		<0.1		~100	5.15
1540			19.0		6.59		45		.392		<5		<0.1		~100	5.15
1545			18.9		6.59		42		.393		<5		<0.1		~100	5.15

COMMENTS:

*INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

LOW FLOW SAMPLING
DATA SHEET

SITE: RB Baker RubbleFill
DATE: 9/29/20
WEATHER: 75° overcast breezy
CONSULTING FIRM: Martel
FIELD PERSONNEL: Tom Merashoff

MONITOR WELL MW-4 **WELL DEPTH:** _____ **SCREENED/OPEN INTERVAL:** _____
WELL PERMIT #: QA-88-0873 **WELL DIAMETER:** 4 Inches

PID/FID READINGS
BACKGROUND: _____
BENEATH OUTER CAP: _____
BENEATH INNER CAP: _____
PUMP INTAKE DEPTH: _____ ft below TOC
DEPTH TO WATER from top of Steel Casing: 5.81 ft below TOC

TIME	PURGING	SAMPLING	TEMPERATURE (degrees C)		pH (pH units)		REDOX POTENTIAL (mv)		SPECIFIC CONDUCTIVITY (mS/cm)		TURBIDITY (NTU)		DISSOLVED OXYGEN (mg/l)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	~300	
1613				NA		NA		NA		NA		NA		NA	270	
1620			18.5		6.76		14		.245		<5		<0.1		270	6.02
1623			18.4		6.77		3		.244		<5		<0.1		270	6.03
1626			18.3		6.77		-2		.244		<5		<0.1		270	6.02
1629			18.2		6.76		-6		.245		<5		<0.1		270	6.02

COMMENTS:

*INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

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LOW FLOW SAMPLING
DATA SHEET

SITE: RB Baker RubbleFill
DATE: 9/29/20
WEATHER: 75°F humid overcast

CONSULTING FIRM: Martel
FIELD PERSONNEL: Tom Merashoff

MONITOR WELL: MW-5
WELL PERMIT #: QA-88-0874
WELL DEPTH:
WELL DIAMETER: 4 Inches
SCREENED/OPEN INTERVAL:

PID/FID READINGS
BACKGROUND:
BENEATH OUTER CAP:
BENEATH INNER CAP:

PUMP INTAKE DEPTH: _____ ft below TOC
DEPTH TO WATER from top of Steel Casing: 4.87 ft below TOC

TIME	PURGING	SAMPLING	TEMPERATURE (degrees C)		pH (pH units)		REDOX POTENTIAL (mv)		SPECIFIC CONDUCTIVITY (mS/cm)		TURBIDITY (NTU)		DISSOLVED OXYGEN (mg/l)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	~400	
1649	X			NA		NA		NA		NA		NA		NA	350	
1654	X		18.8		6.46		72		.487		<5		<0.1		350	4.89
1657	X		18.7		6.45		60		.514		<5		<0.1		350	4.89
1700	X		18.7		6.45		54		.511		<5		<0.1		350	4.89
1703			18.7		6.43		53		.504		<5		<0.1		350	4.89

COMMENTS:

*INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

LOW FLOW SAMPLING
DATA SHEET

SITE: RB Baker RubbleFill
DATE: 9/29/20
WEATHER: 75°F humid overcast

CONSULTING FIRM: Martel
FIELD PERSONNEL: Tom Merashoff

MONITOR WELL MW-6 **WELL DEPTH:** _____ **SCREENED/OPEN INTERVAL:** _____
WELL PERMIT #: QA-92-0330 **WELL DIAMETER:** 4 Inches

PID/FID READINGS
BACKGROUND: _____
BENEATH OUTER CAP: _____
BENEATH INNER CAP: _____

PUMP INTAKE DEPTH: _____ ft below TOC
DEPTH TO WATER from top of Steel Casing: 15.83 ft below TOC

TIME	PURGING	SAMPLING	TEMPERATURE (degrees C)		pH (pH units)		REDOX POTENTIAL (mv)		SPECIFIC CONDUCTIVITY (mS/cm)		TURBIDITY (NTU)		DISSOLVED OXYGEN (mg/l)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	~135	
1136	X			NA		NA		NA		NA		NA		NA	185	15.86
1144	X		18.6		4.51		406		.075		20.5		1.41	15.5%	185	15.87
1147	X		18.1		4.56		404		.076		28.2		1.13	12.4%	185	15.87
1150	X		18.0		4.59		404		.076		27.8		1.05	11.4%	185	15.87
1153		X	17.9		4.56		403		.075		25.5		1.02	11.2%	185	15.88

COMMENTS:

*INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

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LOW FLOW SAMPLING
DATA SHEET

SITE: RB Baker RubbleFill
DATE: 9/29/20
WEATHER: pt'ly sunny breeze 78° humid

CONSULTING FIRM: Martel
FIELD PERSONNEL: Tom Merashoff

MONITOR WELL MW-7 **WELL DEPTH:** _____ **SCREENED/OPEN INTERVAL:** _____
WELL PERMIT #: QA-92-0332 **WELL DIAMETER:** 4 Inches

PID/FID READINGS
BACKGROUND: _____
BENEATH OUTER CAP: _____
BENEATH INNER CAP: _____

PUMP INTAKE DEPTH: _____ ft below TOC
DEPTH TO WATER from top of Steel Casing: 9.58 ft below TOC

TIME	PURGING	SAMPLING	TEMPERATURE (degrees C)		pH (pH units)		REDOX POTENTIAL (mv)		SPECIFIC CONDUCTIVITY (mS/cm)		TURBIDITY (NTU)		DISSOLVED OXYGEN (mg/l)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	~125	
1053	X			NA		NA		NA		NA		NA		NA	130	8.73
1100	X		19.5		5.75		325		.477		25		1.30		125	8.74
1104	X		19.5		5.80		322		.474		<5		1.27	4.3%	125	8.25
1108		X	19.5		5.82		320		.472		<5		1.32		125	8.77

COMMENTS:

*INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

LOW FLOW SAMPLING
DATA SHEET

SITE: RB Baker RubbleFill
DATE: 9/29/20
WEATHER: 75°F humid overcast

CONSULTING FIRM: Martel
FIELD PERSONNEL: Tom Merashoff

MONITOR WELL: MW-8
WELL PERMIT #: QA-92-0331
WELL DEPTH: _____
WELL DIAMETER: 4 Inches
SCREENED/OPEN INTERVAL: _____

PID/FID READINGS
BACKGROUND: _____
BENEATH OUTER CAP: _____
BENEATH INNER CAP: _____

PUMP INTAKE DEPTH: _____ ft below TOC
DEPTH TO WATER from top of Steel Casing: 7.53 ft below TOC

TIME	PURGING	SAMPLING	TEMPERATURE (degrees C)		pH (pH units)		REDOX POTENTIAL (mv)		SPECIFIC CONDUCTIVITY (mS/cm)		TURBIDITY (NTU)		DISSOLVED OXYGEN (mg/l)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	~250	
1312	X			NA		NA		NA		NA		NA		NA	250	
1320			19.3		5.37		136		0.029		<5		<0.1		250	7.67
1323			19.3		5.39		96		0.029		<5		<0.1		250	7.67
1326			19.3		5.44		82		0.029		<5		<0.1		250	7.68
1329			19.3		5.44		78		0.029		<5		<0.1		250	7.68
1332		X	19.3		5.49		76		0.029		<5		<0.1		250	7.68

COMMENTS:

*INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

LOW FLOW SAMPLING
DATA SHEET

SITE: RB Baker RubbleFill
DATE: 9/29/20
WEATHER: 75 F humid overcast

CONSULTING FIRM: Martel
FIELD PERSONNEL: Tom Merashoff

MONITOR WELL MW-9 **WELL DEPTH:** _____ **SCREENED/OPEN INTERVAL:** _____
WELL PERMIT #: QA-92-0333 **WELL DIAMETER:** 4 Inches

PID/FID READINGS
BACKGROUND: _____
BENEATH OUTER CAP: _____
BENEATH INNER CAP: _____

PUMP INTAKE DEPTH: _____ ft below TOC
DEPTH TO WATER from top of Steel Casing: 5.90 ft below TOC

TIME	PURGING	SAMPLING	TEMPERATURE (degrees C)		pH (pH units)		REDOX POTENTIAL (mv)		SPECIFIC CONDUCTIVITY (mS/cm)		TURBIDITY (NTU)		DISSOLVED OXYGEN (mg/l)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	~240	
1347	K			NA		NA		NA		NA		NA		NA	175	
1355			20.1		5.23		133		.209		<5		<0.1		175	6.00
1358			20.0		5.24		142		.210		<5		<0.1		175	6.00
1401			20.0		5.25		146		.210		<5		<0.1		175	6.00
1404			20.0		5.23		150		.210		<5		<0.1		175	6.01

COMMENTS: Dup here

*INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

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LOW FLOW SAMPLING
DATA SHEET

SITE: RB Baker RubbleFill
DATE: 9/29/20
WEATHER: 75°F humid overcast

CONSULTING FIRM: Martel
FIELD PERSONNEL: Tom Merashoff

MONITOR WELL MW-10 **WELL DEPTH:** _____ **SCREENED/OPEN INTERVAL:** _____
WELL PERMIT #: QA-92-0334 **WELL DIAMETER:** 4 **Inches**

PID/FID READINGS
BACKGROUND: _____
BENEATH OUTER CAP: _____
BENEATH INNER CAP: _____

PUMP INTAKE DEPTH: _____ **ft below TOC**
DEPTH TO WATER from top of Steel Casing: 6.60 **ft below TOC**

TIME	PURGING	SAMPLING	TEMPERATURE (degrees C)		pH (pH units)		REDOX POTENTIAL (mv)		SPECIFIC CONDUCTIVITY (mS/cm)		TURBIDITY (NTU)		DISSOLVED OXYGEN (mg/l)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	~220	
1430	X			NA		NA		NA		NA		NA		NA	~200	
1437	X		20.5		6.15		198		.467		<5		<0.1		~205	6.70
1440	X		20.5		6.17		190		.473		<5		<0.1		~205	6.70
1443	X		20.4		6.18		183		.476		<5		<0.1		~205	6.70
1446	X		20.5		6.19		179		.480		<5		<0.1		~205	6.70
1449		X	20.5		6.20		176		.482		<5		<0.1		~205	6.70

COMMENTS:

*INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

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LOW FLOW SAMPLING
DATA SHEET

SITE: RB Baker RubbleFill
DATE: 9/29/20
WEATHER: 75°F humid overcast breezy
CONSULTING FIRM: Martel
FIELD PERSONNEL: Tom Merashoff

MONITOR WELL MW-11 **WELL DEPTH:** 30.10 **SCREENED/OPEN INTERVAL:**
WELL PERMIT #: QA-94-0355 **WELL DIAMETER:** 4 Inches

PID/FID READINGS
BACKGROUND:
BENEATH OUTER CAP:
BENEATH INNER CAP:
PUMP INTAKE DEPTH: _____ ft below TOC
DEPTH TO WATER from top of Steel Casing: 14.55 ft below TOC

TIME	PURGING	SAMPLING	TEMPERATURE (degrees C)		pH (pH units)		REDOX POTENTIAL (mv)		SPECIFIC CONDUCTIVITY (mS/cm)		TURBIDITY (NTU)		DISSOLVED OXYGEN (mg/l)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	~250	
1216	X			NA		NA		NA		NA		NA		NA	150	
1224	X		17.5		4.49		419		.258		<5		<0.1		150	14.65
1227	X		17.2		4.46		417		.260		<5		<0.1		150	14.67
1230	~~X~~	X	17.1		4.49		415		.260		<5		<0.1		150	14.65
~~1233~~																

COMMENTS: used portable sample pro pump

*INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

LOW FLOW SAMPLING
DATA SHEET

SITE: RB Baker RubbleFill — POND
DATE: 9/29/20
WEATHER: 75° humid overcast

CONSULTING FIRM: Martel
FIELD PERSONNEL: Tom Merashoff

MONITOR WELL ~~MW~~ POND **WELL DEPTH:** _____ **SCREENED/OPEN INTERVAL:** _____
WELL PERMIT #: _____ **WELL DIAMETER:** 4 Inches

PID/FID READINGS
BACKGROUND: _____
BENEATH OUTER CAP: _____
BENEATH INNER CAP: _____

PUMP INTAKE DEPTH: _____ ft below TOC
DEPTH TO WATER from top of Steel Casing: 5.10 ft below TOC

TIME	PURGING	SAMPLING	TEMPERATURE (degrees C)		pH (pH units)		REDOX POTENTIAL (mv)		SPECIFIC CONDUCTIVITY (mS/cm)		TURBIDITY (NTU)		DISSOLVED OXYGEN (mg/l)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
~~START~~				NA		NA		NA		NA		NA		NA		
1720			24.5		8.21		53		.191		0.1		6.50			

COMMENTS:

*INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

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CHAIN OF CUSTODY RECORD

CLIENT: **RBBAKE**

CONTACT: Ted Baker PHONE NO: (410) 827-8831

P.O. NUMBER: FAX NO: (410) 827-9504

PROJECT: Queenstown Rubble Fill Well Monitoring

TURNAROUND TIME: Routine

SAMPLER: Tom Meras hoff

LOG ID: 51035

PAGE 1 OF 1

pHCALIBRATION RECORD

Time:

Buffer 7:
Buffer 4/10:

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	SAMPLE TYPE (C= COMP G= GRAB)	DEPTHF, Tf, pHf, REDOX, CONDF, TURBF, Daf	DQ pl/ ice ALK, CL, DS, HARD, SO4, NO3, NO2	500ml pl H_2SO_4 NO32, COD, NH3	500ml pl HNO_3 Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Ni, Mg, Mn, Hg, K, Se, Ag, Na, TL, V, Zn	2-voa vials-HCL 8260, 8011				REMARKS
1	Well #3, QA-88-0872	9/29/20	1545	GRW	7	G	X	X	X	X	X				
2	Well #4, QA-88-0873		1629	GRW	7	G	X	X	X	X	X				
3	Well #5, QA-88-0874		1703	GRW	7	G	X	X	X	X	X				
4	Well #6, QA-92-0330		1153	GRW	7	G	X	X	X	X	X				
5	Well #7, QA-92-0332		~~1108~~ 1108	GRW	7	G	X	X	X	X	X				
6	Well #8, QA-92-0331		1332	GRW	7	G	X	X	X	X	X				
7	Well #9, QA-92-0333		~~110~~ 1404	GRW	7	G	X	X	X	X	X				
8	Well #10, QA-92-0334		1449	GRW	7	G	X	X	X	X	X				
9	Well #11, QA-94-0355		1230	GRW	7	G	X	X	X	X	X				
10	Pond		1720	SFW	7	G	X	X	X	X	X				Dissolved metals
11	Well # 9, DUP		1404	GRW	7	G	X	X	X	X	X				filtered 9/29/20 TM
12	Field Blank		1420	DIW	7	G		X	X	X	X				
13	Trip Blank		0730	DIW	3	G					X				

Relinquished By: (1)	Date	Time	Received By:	Samples Received on Ice? (Circle)	Data Deliverable Level (circle):
T. Merashoff	9/30/20	900		YES NO	I II III
Relinquished By: (2)	Date	Time	Received By:	Samples properly pres'd? (Circle) YES NO	2°C BJ 9/30/20
Relinquished By: (3)	Date	Time	Received By:	Special Instruction:	

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Martel Laboratories JDS Inc.
1025 Cromwell Bridge Road • Baltimore, MD 21286 • (410) 825-7790 • FAX (410)821-1054

APPENDIX C

GROUNDWATER ELEVATIONS

R.B. Baker & Sons Rubble Landfill

Groundwater Elevations

Original Cell Phase II Elevations

Data Point	9/28/90	10/10/90	11/15/90	12/7/90	1/3/91	2/9/91	3/9/91	4/10/91	5/4/91	6/13/91	7/11/91	8/12/91
W-1	37.50	37.00	36.70	36.50	37.70	39.10	NR	39.30	38.80	37.40	36.50	36.00
W-2	34.20	34.20	34.00	34.10	35.00	35.40	NR	35.50	35.30	34.00	33.60	33.40
W-3	34.20	33.80	33.50	33.20	33.80	34.70	NR	34.80	34.60	33.80	33.20	32.70
W-4	33.20	32.90	32.70	32.50	33.10	33.50	NR	33.70	33.60	32.70	32.20	31.90
W-5	32.10	31.80	31.60	31.50	31.10	32.50	NR	32.70	32.60	31.80	31.40	31.20
P-1	41.30	40.80	40.70	40.50	41.80	42.60	41.80	43.20	42.80	41.20	40.40	39.80
P-2	45.70	45.20	44.70	44.30	44.50	45.50	45.10	46.10	46.20	45.50	44.80	44.10
P-3	39.10	38.80	38.80	38.40	39.40	40.30	39.80	41.10	40.80	39.40	38.70	37.10
P-4	36.80	36.50	36.30	36.30	37.40	38.30	37.60	38.30	37.90	36.70	36.10	35.60
P-5	35.40	34.90	34.70	34.40	34.90	36.40	35.60	36.40	36.10	35.20	34.40	33.90
P-6	34.10	33.70	33.50	33.40	34.00	35.10	34.40	34.90	34.70	33.80	33.20	32.80
P-7	33.50	32.20	33.10	32.90	33.60	34.50	33.90	34.20	34.00	33.20	32.60	32.30
Mean*	34.24	33.94	33.70	33.56	34.14	35.04	41.80	35.20	34.98	33.94	33.38	33.04

NR - No Reading

NA - Not Applicable

* Wells 1 to 5 only

R.B. Baker & Sons Rubble Landfill

Groundwater Elevations

Expansion Cell Phase II Elevations

Data Point	11/3/93*	3/18/94*	11/22/94	12/7/94	1/4/95	2/1/95	3/3/95	4/3/95	5/3/95	6/2/95	7/1/95	7/26/95*	8/2/95	9/1/95	10/9/95
W-1	28.76	35.38	36.80	36.81	36.35	36.98	36.72	36.99	36.55	36.95	36.54	36.35	36.07	35.59	33.05
W-2	33.13	37.25	34.63	34.31	33.70	34.67	34.73	31.76	34.48	34.53	33.81	34.58	33.48	32.87	33.00
W-3	32.19	37.39	34.67	34.46	33.71	34.35	34.19	34.33	34.10	34.10	33.59	33.99	33.04	32.34	31.80
W-4	31.23	36.33	33.84	33.07	32.58	34.08	33.12	33.12	32.86	32.98	32.34	33.50	31.76	31.08	30.75
W-5	30.48	34.03	32.22	31.92	31.57	32.25	32.18	32.15	32.00	32.00	31.41	31.91	30.94	30.22	30.00
W-6	NR	NR	36.53	36.79	36.68	37.66	37.78	37.93	37.78	37.78	36.70	NR	34.87	35.05	35.03
W-7	NR	NR	33.49	33.73	33.40	34.09	34.27	34.01	34.14	33.82	32.87	NR	32.13	31.46	31.82
W-8	NR	NR	32.11	32.38	31.91	32.65	32.83	32.44	32.61	32.26	31.48	NR	30.99	30.35	30.74
W-9	NR	NR	32.04	32.05	31.81	32.50	32.41	32.43	32.21	32.26	31.72	NR	31.27	30.60	30.43
W-10	NR	NR	32.32	32.36	32.10	32.84	32.78	32.74	33.34	32.66	32.04	NR	31.59	30.90	30.72
P-1	NR	NR	40.16	40.05	39.59	40.44	40.10	40.43	40.12	40.50	39.80	NR	39.15	38.49	38.04
P-2	NR	NR	43.72	43.54	43.08	43.26	43.11	43.65	43.53	43.70	43.44	NR	42.84	NR	NR
P-3	NR	NR	38.22	38.12	37.83	38.68	38.71	39.03	38.78	39.18	38.32	NR	37.65	36.96	36.54
E-1	NR	NR	41.22	36.61	40.56	40.63	40.49	41.06	40.95	41.10	40.89	NR	40.31	39.80	39.17
E-2	NR	NR	41.99	41.36	41.60	41.75	42.04	42.81	42.50	43.05	42.43	NR	41.76	41.18	40.50
E-3	NR	NR	NR	39.85	39.57	40.28	40.32	40.81	40.55	41.05	40.27	NR	39.56	38.90	38.71
Mean**	31.16	36.08	34.43	34.11	33.58	34.47	34.19	33.67	34.00	34.11	33.54	34.07	33.06	32.42	31.72

* Measurements taken by Analytical Laboratory Personnel

NR - No Reading

NA - Not Applicable

** Wells 1 to 5 only

R.B. Baker & Sons Rubble Landfill

Groundwater Elevations

Monthly Monitoring

Data Point	10/24/95*	3/6/96*	6/27/96*	11/13/96*	4/29/97*	8/14/97	9/15/97	10/17/97	10/21/97*	11/18/97	12/19/97	1/20/98*	1/22/98	2/19/98	3/16/98	4/16/98
W-1	35.47	39.60	39.75	39.69	40.40	37.97	37.45	36.75	40.47	36.74	36.82	36.97	36.95	39.32	40.42	40.81
W-2	32.99	36.77	36.56	36.03	37.18	34.49	34.80	33.59	30.90	34.98	34.25	35.26	NR	36.57	36.41	36.30
W-3	32.29	36.21	36.59	36.80	37.20	34.88	34.84	33.84	33.69	34.32	33.97	34.21	34.13	36.00	36.82	37.16
W-4	31.48	35.57	35.65	35.23	36.48	34.16	33.55	32.55	30.37	33.33	32.83	32.91	33.10	34.82	35.53	35.53
W-5	33.24	33.90	33.64	33.25	35.45	32.34	32.22	31.40	24.26	32.20	31.80	32.19	32.10	33.54	33.63	33.69
W-6	NR	NR	NR	NR	NR	36.49	36.90	35.98	NR	37.52	37.35	NR	38.34	40.23	40.68	39.70
W-7	NR	NR	NR	NR	NR	NR	33.56	32.37	NR	33.46	33.68	NR	34.41	35.40	35.21	34.89
W-8	NR	NR	NR	NR	NR	31.44	32.39	31.27	NR	33.05	32.14	NR	32.96	33.66	33.53	33.36
W-9	NR	NR	NR	NR	NR	NR	NR	31.53	NR	32.28	32.01	NR	32.28	33.59	33.51	33.42
W-10	NR	NR	NR	NR	NR	32.34	32.74	31.92	33.34	32.76	32.41	32.85	32.80	34.16	34.06	33.98
W-11	NR	NR	NR	NR	NR	NR	NR	41.77	NR	42.20	41.92	NR	43.06	46.41	47.95	46.91
E-1	NR	NR	NR	NR	NR	44.17	43.35	42.55	NR	42.15	41.79	NR	41.90	43.45	45.33	46.45
E-2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	46.40	48.45	47.54
Pond 1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	31.87	NR	32.10	33.41	33.40	33.30
Mean**	33.09	36.41	36.44	36.20	37.34	34.77	34.57	33.63	31.94	34.31	33.93	34.31	34.07	36.05	36.56	36.70

* Measurements taken by Analytical Laboratory Personnel

NR - No Reading

NA - Not Applicable

** Wells 1 to 5 only

R.B. Baker & Sons Rubble Landfill

Groundwater Elevations
Monthly Monitoring

Data Point	5/14/98	6/19/98	07/02/98*	7/16/98	07/30/98*	8/13/98	9/19/98	10/15/98	11/19/98	12/16/98	1/13/99	2/18/99	3/18/99	4/16/99
W-1	40.09	39.06	NR	38.07	NR	37.10	36.18	35.69	35.22	34.95	34.84	35.34	35.83	36.86
W-2	36.82	35.40	NR	34.33	NR	33.61	33.05	32.89	32.45	32.74	32.98	34.25	34.58	35.09
W-3	36.93	35.90	NR	35.01	NR	34.05	33.09	32.49	31.76	31.41	31.37	32.13	33.04	33.77
W-4	35.58	34.49	NR	33.62	NR	32.72	31.83	31.31	30.73	30.51	30.57	31.31	32.18	32.58
W-5	34.00	33.06	NR	32.31	NR	31.51	30.81	28.05	29.91	29.88	29.97	30.76	31.33	31.43
W-6	40.47	38.13	37.56	37.06	36.54	36.22	35.52	35.39	35.28	35.82	36.07	37.09	38.32	39.13
W-7	35.62	34.17	33.48	33.00	32.49	32.26	31.71	31.68	31.50	32.08	32.43	33.71	34.38	34.44
W-8	33.86	32.87	32.29	33.85	31.41	31.17	30.65	30.48	30.16	30.74	30.90	32.61	33.02	32.86
W-9	33.64	32.94	30.64	32.27	31.91	31.57	30.94	30.63	30.20	30.25	30.38	30.97	31.58	31.81
W-10	34.28	33.41	NR	32.70	NR	31.98	31.34	30.98	30.52	30.54	30.71	31.41	32.12	32.38
W-11	47.60	44.66	44.00	43.47	43.14	42.41	41.48	40.96	40.40	40.19	40.09	40.75	41.86	43.16
W-12	NR	32.05	NR	31.38	NR	30.71	29.98	29.75	29.25	29.37	29.39	30.43	30.90	30.94
W-13	NR	32.54	NR	31.83	NR	31.02	30.25	29.81	29.25	29.15	29.13	29.68	30.19	30.54
W-14	NR	32.60	NR	31.85	NR	30.92	29.87	29.23	28.46	28.08	27.85	28.10	28.44	29.25
W-15	NR	33.77	NR	33.01	NR	32.02	30.90	30.21	29.40	29.14	29.08	29.62	30.30	31.00
E-1	46.07	45.30	NR	44.33	NR	43.30	42.14	41.39	40.53	39.94	39.61	39.53	39.95	40.66
E-2	47.85	45.73	NR	44.61	NR	43.55	42.60	42.03	41.40	41.03	40.79	41.02	41.86	43.03
Pond 1	33.45	32.80	NR	32.30	NR	31.60	30.80	30.50	30.05	30.05	30.20	30.75	31.35	31.50
Pond 2	34.43	33.49	NR	32.65	NR	31.75	30.80	30.50	30.05	30.05	30.00	30.20	31.20	30.60
Pond 3	32.76	<32.30	NR	<32.30	NR	<32.30	<32.3	<32.3	<32.3	<32.3	<32.30	<32.30	<32.30	<32.30
Pond 4	30.37	29.90	NR	29.22	NR	28.70	<28.6	<28.6	<28.6	<28.6	<28.60	<28.60	<28.60	29.90
Pond 5	32.52	31.90	NR	31.30	NR	31.00	<31.0	<31.0	<31.0	<31.0	<31.00	<31.00	<31.00	<31.00
Mean 1**	36.68	35.58	NA	34.67	NA	33.80	32.99	32.09	32.01	31.90	31.95	32.76	33.39	33.95
Mean 2***	NA	36.24	NA	35.45	NA	34.48	33.67	33.12	32.73	32.70	32.72	33.45	34.11	34.64

* Measurements taken by Analytical Laboratory Personnel

NR - No Reading

NA - Not Applicable

** Wells 1 to 5 only

*** All wells

R.B. Baker & Sons Rubble Landfill

Groundwater Elevations
Monthly Monitoring

Data Point	5/20/99	6/19/99	7/17/99	8/18/99	9/22/99	10/21/99	11/17/99	12/22/99	1/21/00	2/10/00	3/14/00	4/27/00	5/23/00	6/8/00
W-1	36.62	34.08	35.76	Abandoned										
W-2	33.79	33.04	33.30	Abandoned										
W-3	33.12	32.44	32.17	31.94	34.71	35.44	34.89	35.25	34.61	34.71	35.14	36.37	35.91	35.62
W-4	31.86	31.21	31.04	30.87	34.13	34.33	33.62	33.86	33.49	33.72	33.92	35.11	34.56	34.27
W-5	30.85	30.30	30.22	30.13	33.81	33.37	32.59	32.91	32.57	32.88	32.82	33.79	33.33	33.11
W-6	37.48	36.39	36.00	36.63	37.64	37.57	37.15	38.07	37.86	38.48	38.58	40.42	38.62	38.24
W-7	32.99	32.18	32.03	31.69	34.10	34.32	33.68	34.10	33.80	34.45	34.14	35.00	34.34	34.16
W-8	31.21	30.61	30.63	30.50	33.68	33.51	32.57	33.07	32.61	33.31	32.39	33.77	33.34	33.28
W-9	31.22	30.71	29.68	30.60	33.55	33.35	32.73	32.98	32.68	32.94	32.94	33.63	33.31	33.23
W-10	31.68	31.10	31.13	32.46	33.58	33.77	33.12	33.33	33.02	33.42	33.31	34.03	33.74	33.67
W-11	42.22	41.39	40.99	40.67	41.31	41.62	41.49	41.95	42.04	42.57	43.43	46.06	44.24	43.96
W-12	30.25	29.73	29.60	29.53	33.18	32.65	31.82	32.15	31.72	31.96	32.06	33.28	32.60	32.32
W-13	30.10	29.60	29.48	29.39	32.63	32.52	31.98	32.15	31.80	31.49	32.07	33.02	32.62	32.48
W-14	29.17	28.75	28.51	28.34	31.06	31.69	31.51	31.37	31.05	30.98	31.34	32.52	32.20	32.04
W-15	30.45	29.79	29.60	29.37	32.62	32.93	32.63	32.67	32.38	32.40	32.69	33.85	33.52	33.33
E-1	40.83	40.36	40.00	39.62	40.23	40.71	40.84	40.97	41.04	41.13	41.86	43.02	43.51	43.49
E-2	42.78	42.03	41.66	41.18	41.53	42.02	42.15	42.23	42.45	42.50	43.35	45.03	44.67	44.52
Pond 1	31.10	30.50	30.50	30.50	33.53	33.25	32.70	32.90	32.70	32.60	32.80	33.45	33.10	33.10
Pond 2	30.00	30.00	29.50	<28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pond 3	<32.30	<32.3	<32.3	<32.3	33.10	<32.3	<32.3	<32.3	N/A	N/A	<32.3	33.10	<32.3	<32.3
Pond 4	<28.6	<28.6	<28.6	<28.6	30.60	30.45	30.90	30.90	N/A	N/A	30.00	30.70	30.20	30.10
Pond 5	<31.0	<31.1	<31.1	<31.1	32.60	32.48	32.20	32.10	N/A	N/A	32.00	32.60	32.40	32.30
Mean**	33.75	33.11	32.85	32.86	35.18	35.32	34.85	35.14	34.87	35.13	35.34	36.59	36.03	35.85

* Measurements taken by Analytical Laboratory Personnel

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

Groundwater Elevations
Monthly Monitoring

Data Point	7/10/00	8/10/00	9/13/00	10/10/00	11/9/00	12/13/00	1/17/01	2/23/01	3/20/01	4/20/01	5/21/01	6/13/01	7/16/01	8/15/01
W-3	35.02	35.06	34.39	34.63	33.93	33.25	33.21	34.40	34.20	35.87	35.14	35.87	35.73	35.70
W-4	33.75	33.88	33.22	33.46	32.77	32.17	32.24	33.28	33.45	34.56	33.69	34.64	34.41	34.70
W-5	32.72	32.90	32.34	32.43	31.79	31.39	31.54	32.35	32.38	33.29	32.41	33.39	33.26	33.68
W-6	37.45	37.69	37.09	37.47	36.64	36.75	36.94	38.75	38.94	39.43	37.52	38.63	37.62	38.24
W-7	33.43	33.59	33.24	33.37	32.94	32.93	33.09	33.88	34.01	34.43	33.52	34.09	33.62	33.98
W-8	32.57	32.75	32.33	32.75	31.80	31.62	31.81	32.71	32.74	33.34	32.25	33.18	32.93	33.57
W-9	32.87	33.05	32.54	32.53	31.95	31.62	31.80	32.48	32.50	33.27	32.53	33.42	33.32	33.56
W-10	33.27	33.40	32.90	32.88	32.34	31.80	32.10	32.81	32.83	33.60	32.92	33.72	33.65	33.75
W-11	43.42	43.70	42.81	42.96	42.06	41.55	41.48	43.73	44.55	45.80	43.55	44.68	43.81	43.82
W-12	31.90	32.11	31.59	31.58	31.01	30.66	29.84	31.63	31.67	32.45	31.63	33.30	32.43	32.57
W-13	32.09	32.23	31.71	31.72	31.11	30.66	30.71	31.44	31.54	32.53	31.82	32.70	32.68	32.93
W-14	31.60	31.60	31.14	31.07	30.50	29.88	29.64	30.18	30.49	31.91	31.49	32.14	32.34	32.35
W-15	32.87	32.86	32.28	32.35	31.67	31.03	30.69	31.79	32.00	33.22	32.67	33.43	33.44	33.47
E-1	43.18	43.22	42.68	42.59	42.10	41.39	41.06	41.72	42.27	43.55	43.47	43.78	43.64	43.20
E-2	44.07	44.27	45.56	43.56	42.85	42.26	42.05	43.45	44.11	45.52	44.27	44.99	44.49	44.27
Pond 1	32.70	33.00	32.40	32.40	31.80	31.60	31.70	NR	32.40	33.10	32.20	33.20	33.10	33.35
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	<32.30	<32.30	<32.30	<32.30	<32.30	<32.30	NR	NR	<32.30	<32.30	<32.30	<32.30	<32.30	<32.30
Pond 4	30.40	30.20	30.10	32.00	29.80	<28.6	NR	NR	30.00	30.50	29.90	30.30	30.70	30.70
Pond 5	32.10	32.30	32.20	32.00	31.80	<31.0	NR	NR	32.10	32.50	32.00	32.70	32.60	32.70
Mean**	35.35	35.49	35.05	35.02	34.36	33.93	33.88	34.97	35.18	36.18	35.26	36.13	35.82	35.99

* Measurements taken by Analytical Laboratory Personnel

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

Septeber 2001 - December 2002 Groundwater Elevations

Monthly Monitoring

Data Point	9/24/01	10/25/01	11/14/01	12/5/01	1/21/02	2/25/02	3/25/02	4/24/02	5/15/02	6/27/02	7/25/02	8/22/02	9/18/02	10/24/02	11/26/02	12/20/02
W-3	34.72	33.95	33.47	33.06	32.59	32.49	32.35	32.52	32.45	32.31	31.66	30.88	31.95	33.31	34.66	34.94
W-4	33.63	32.82	32.59	32.01	31.73	31.59	31.50	31.51	31.30	30.98	30.20	29.76	30.27	32.45	33.26	33.70
W-5	32.81	31.91	31.45	31.22	31.11	31.04	30.89	30.79	30.66	30.30	29.51	29.08	29.96	31.18	31.77	32.34
W-6	36.99	36.06	35.90	36.13	36.74	37.05	37.28	37.23	37.09	36.82	35.41	34.35	35.46	36.98	37.87	38.65
W-7	33.23	32.48	32.47	32.56	32.91	32.96	32.99	32.88	32.65	31.69	31.16	30.56	31.13	32.26	33.33	33.60
W-8	32.62	31.69	31.42	31.35	31.79	31.78	31.75	31.39	31.05	30.56	29.92	29.29	30.32	31.62	32.48	32.78
W-9	32.68	32.02	31.61	31.42	31.35	31.23	31.14	31.12	31.00	30.73	30.44	29.61	30.53	31.44	31.91	32.47
W-10	32.95	32.39	32.00	31.77	31.63	31.51	31.45	31.46	31.31	31.07	30.68	29.97	30.68	31.65	32.25	32.43
W-11	42.34	41.71	41.26	40.96	40.84	41.01	41.12	41.42	41.20	40.62	40.05	39.58	40.22	40.96	41.56	42.50
W-12	31.90	31.06	30.68	30.47	30.53	30.50	30.45	30.42	30.03	29.66	29.31	28.68	29.51	30.44	31.16	31.61
W-13	32.04	31.27	30.82	30.53	30.28	30.11	29.99	30.09	29.89	29.45	28.78	28.33	29.17	30.01	30.65	31.39
W-14	31.50	30.82	30.30	29.84	29.15	28.91	28.63	28.57	28.31	28.18	27.69	27.26	27.67	28.25	28.81	29.61
W-15	32.66	31.98	31.40	30.93	30.38	30.17	30.04	30.04	29.91	29.66	29.03	28.33	29.31	30.70	31.29	32.00
E-1	42.53	41.94	41.45	41.00	40.23	39.46	38.62	39.79	39.26	38.60	38.64	38.89	39.15	39.34	39.55	40.46
E-2	43.21	42.65	42.19	41.81	41.41	41.36	41.33	40.60	41.16	41.10	40.66	40.32	40.56	41.05	41.33	42.17
Pond 1	32.50	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	<32.30	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 4	29.70	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 5	32.20	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mean**	35.05	34.32	33.93	33.67	33.51	33.41	33.30	33.32	33.15	32.78	32.21	31.66	32.39	33.44	34.13	34.71

* Measurements taken by Analytical Laboratory Personnel

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

2003 Groundwater Elevations

Monthly Monitoring

Data Point	1/30/03	2/26/03	3/12/03	4/18/03	5/7/03	6/3/03	7/7/03	8/5/03	9/18/03	10/30/03	11/6/03	12/12/03
W-3	35.87	36.56	37.63	37.59	37.50	37.51	37.34	37.23	37.46	37.67	37.63	37.60
W-4	34.32	35.01	35.81	35.69	35.60	35.68	35.33	35.17	35.45	35.77	35.70	35.81
W-5	32.79	33.41	33.92	33.82	33.65	33.70	33.58	33.39	33.56	32.77	32.72	32.89
W-6	39.49	40.26	40.63	39.98	38.98	39.32	39.41	39.24	39.41	39.57	39.45	39.66
W-7	34.09	34.53	34.96	34.71	34.62	34.64	34.58	34.40	34.56	34.74	34.66	34.79
W-8	33.22	33.50	33.81	33.38	33.23	33.29	33.35	33.24	33.46	33.60	33.47	33.62
W-9	32.84	33.30	33.70	33.50	33.41	33.46	33.33	33.24	33.43	33.62	33.49	33.58
W-10	32.99	33.63	34.21	34.15	33.97	33.85	33.68	33.61	33.73	33.87	33.75	33.83
W-11	44.05	45.40	46.28	45.94	45.02	44.74	44.61	44.51	44.68	45.28	45.26	45.74
W-12	32.31	32.80	33.30	33.18	32.70	32.57	32.50	32.37	32.53	32.70	32.58	32.76
W-13	31.88	32.48	33.25	33.23	33.23	33.11	32.89	32.70	32.82	32.87	32.73	32.90
W-14	30.99	31.96	32.82	33.11	33.87	33.68	33.60	33.49	33.72	33.86	33.79	33.64
W-15	32.88	33.74	34.70	34.80	34.85	34.78	34.61	34.47	34.62	34.73	34.62	34.82
E-1	41.24	42.26	43.20	43.87	45.15	44.93	44.87	44.80	45.02	45.13	45.09	45.23
E-2	42.86	44.28	45.09	45.32	45.50	45.34	45.21	45.04	45.25	45.38	45.31	45.55
Pond 1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mean**	35.45	36.21	36.89	36.82	36.75	36.71	36.59	36.46	36.65	36.77	36.68	36.83

* Measurements taken by Analytical Laboratory Personnel

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

2004 Groundwater Elevations

Monthly Monitoring

Data Point	1/15/04	2/19/04	3/12/04	4/16/04	5/7/04	6/14/03	7/6/04	8/6/04	9/7/04	10/22/04	11/30/04	12/23/04
W-3	37.16	36.89	36.63	36.84	36.80	36.33	35.65	34.87	34.22	33.57	34.02	34.30
W-4	35.39	35.07	34.95	35.52	35.21	34.76	34.05	33.34	32.93	32.44	32.96	33.08
W-5	33.23	33.52	33.69	34.11	34.02	33.58	33.03	32.51	32.07	31.55	32.08	31.97
W-6	39.90	40.26	40.45	40.65	40.90	39.80	38.94	37.89	37.40	36.77	37.69	37.74
W-7	34.74	34.58	34.52	34.94	34.91	34.31	33.60	32.89	32.43	31.97	33.60	33.65
W-8	33.62	33.64	33.64	34.01	34.04	33.65	33.08	32.60	32.25	31.96	32.90	32.43
W-9	33.60	33.56	33.49	33.67	33.74	33.23	32.60	32.09	31.47	30.68	32.07	32.11
W-10	33.87	33.80	33.78	34.09	34.07	33.35	32.88	32.61	32.32	32.06	32.41	32.49
W-11	46.53	47.14	47.54	47.97	47.84	47.15	45.86	44.99	43.52	42.19	42.45	42.60
W-12	32.83	32.88	32.94	33.21	33.02	32.47	32.11	31.35	31.23	30.94	31.43	31.34
W-13	32.93	32.94	32.97	33.34	33.25	32.77	32.13	31.65	31.27	30.93	31.25	31.20
W-14	33.47	33.26	33.12	33.34	33.26	32.64	32.02	31.44	30.91	30.45	30.34	30.31
W-15	34.75	34.54	34.30	34.54	34.46	33.85	33.29	32.53	32.04	31.54	31.72	31.74
E-1	45.29	45.32	45.35	46.00	45.81	45.27	44.66	43.88	42.92	42.35	41.97	42.21
E-2	45.82	45.95	46.09	46.79	46.52	45.89	45.02	44.34	43.86	42.99	42.84	42.86
Pond 1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mean**	36.88	36.89	36.90	37.27	37.19	36.60	35.93	35.27	34.72	34.16	34.65	34.67

* Measurements taken by Analytical Laboratory Personnel

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

2005 Groundwater Elevations

Monthly Monitoring

Data Point	1/26/05	2/25/05	3/25/05	4/26/05	5/26/05	6/24/05	7/29/05	8/25/05	9/29/05	10/27/05	11/29/05	12/29/05
W-3	34.59	34.54	35.04	36.57	36.46	36.00	35.31	35.01	34.03	34.16	33.92	34.35
W-4	33.36	33.29	33.92	34.90	34.99	34.36	33.86	33.61	32.68	33.09	32.76	33.14
W-5	32.22	32.18	32.82	33.22	33.49	32.88	32.62	32.43	31.57	32.20	31.73	31.99
W-6	37.89	38.03	38.64	38.48	38.54	37.34	36.95	36.80	35.97	36.86	37.06	37.71
W-7	33.70	33.76	34.20	34.17	34.32	33.43	33.27	32.97	32.27	33.11	33.26	33.65
W-8	32.54	32.71	33.49	33.17	33.49	32.48	32.34	32.13	31.25	33.02	32.14	32.50
W-9	32.30	32.28	32.57	33.17	33.38	32.92	32.61	32.46	31.69	32.01	31.80	32.04
W-10	32.68	32.64	32.93	33.60	33.75	33.35	32.99	32.85	32.10	32.32	32.17	32.42
W-11	42.83	43.10	43.87	44.38	44.33	43.41	43.02	42.67	41.84	42.00	41.78	42.34
W-12	31.50	31.51	32.13	32.38	32.61	32.00	31.81	31.60	30.77	31.44	31.08	31.35
W-13	31.42	31.40	31.82	32.63	32.86	32.46	32.13	31.91	31.05	31.37	31.03	31.23
W-14	30.57	30.63	30.82	32.50	32.65	32.64	32.18	31.86	30.93	30.69	30.37	30.45
W-15	32.00	31.97	32.29	33.66	33.85	33.62	33.24	33.01	32.02	32.03	31.66	31.88
E-1	42.37	42.42	42.83	44.24	44.29	44.14	43.58	43.33	42.63	42.20	41.94	42.09
E-2	42.99	43.30	43.59	44.50	44.60	44.38	43.76	43.56	42.85	42.81	42.51	42.57
Pond 1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mean**	34.86	34.92	35.40	36.10	36.24	35.69	35.31	35.08	34.24	34.62	34.35	34.65

* Measurements taken by Analytical Laboratory Personnel

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

2006 Groundwater Elevations

Monthly Monitoring

Data Point	1/27/06	2/27/06	3/31/06	4/28/06	5/30/06	6/29/06	7/31/06	8/31/06	9/29/06	10/31/06	11/27/06	12/27/06
W-3	34.89	35.00	34.20	33.69	33.02	33.59	33.96	33.04	33.31	33.84	34.44	34.10
W-4	33.64	33.45	32.84	32.49	31.80	32.29	32.60	31.67	32.08	32.60	33.19	32.83
W-5	32.37	32.12	31.63	31.48	30.85	31.32	31.52	30.62	31.17	31.50	32.00	30.08
W-6	38.24	38.08	37.60	37.63	36.51	36.45	36.32	35.41	36.26	36.81	37.73	37.67
W-7	33.81	33.73	33.49	33.29	32.40	32.42	32.41	31.74	32.47	32.94	33.52	33.48
W-8	32.97	32.37	32.16	31.95	30.97	31.30	31.46	30.62	31.68	32.10	32.75	32.53
W-9	32.30	32.19	31.80	31.67	31.14	31.57	31.77	30.92	31.33	31.54	31.96	31.87
W-10	32.71	32.64	32.24	32.05	31.55	31.92	32.06	31.35	31.64	31.91	32.33	26.36
W-11	42.91	43.10	42.50	42.33	41.60	41.59	41.59	40.88	41.08	41.30	42.07	31.87
W-12	31.66	31.41	30.92	30.86	30.14	30.57	30.84	29.90	30.59	30.98	30.80	26.92
W-13	31.52	31.40	30.93	30.77	30.18	30.60	30.83	29.99	30.41	30.61	31.03	24.57
W-14	30.68	30.80	30.38	30.09	29.58	29.95	30.08	29.39	29.45	29.54	29.80	13.91
W-15	32.14	32.17	31.66	31.33	30.67	31.15	31.37	30.42	30.74	31.06	31.49	15.88
E-1	42.43	42.55	42.26	41.88	41.52	41.68	41.77	41.07	41.05	41.21	41.52	24.74
E-2	43.30	43.35	42.89	42.66	42.20	42.31	42.38	41.71	41.77	41.97	42.52	25.90
Pond 1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mean**	35.04	34.96	34.50	34.28	33.61	33.91	34.06	33.25	33.67	33.99	34.48	28.18

* Measurements taken by Analytical Laboratory Personnel

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

2007 Groundwater Elevations

Monthly Monitoring

Data Point	1/31/07	2/23/07	3/30/07	4/30/07	5/24/07	6/3/07	7/1/07	7/30/07	9/28/07	10/31/07	12/3/07
W-3	34.62	34.40	34.53	35.99	35.41	34.17	33.07	32.11	31.72	31.62	30.98
W-4	33.26	33.19	33.23	35.88	33.77	32.54	31.91	32.45	30.74	30.88	30.35
W-5	32.06	32.11	32.42	33.24	32.57	31.73	30.82	30.52	29.91	30.19	29.79
W-6	37.78	37.89	38.04	41.28	36.84	36.32	35.94	35.35	34.63	35.02	35.21
W-7	33.53	33.65	33.55	35.24	33.67	32.35	32.16	31.58	30.96	30.99	31.60
W-8	32.28	32.52	32.56	35.41	32.34	31.44	30.47	30.62	29.90	30.64	31.07
W-9	32.22	32.20	32.21	34.01	32.47	31.87	30.76	30.72	30.29	30.53	28.37
W-10	26.76	26.70	26.74	28.48	26.92	26.29	25.25	25.10	30.63	30.48	30.29
W-11	32.39	32.36	32.39	35.64	31.75	31.52	30.87	30.62	40.30	39.86	40.10
W-12	26.89	27.00	27.24	25.96	27.30	26.48	24.53	25.32	29.17	29.45	29.22
W-13	24.81	24.82	24.75	24.68	25.55	24.63	23.66	23.52	29.31	29.27	29.01
W-14	14.71	14.64	15.03	16.90	17.19	15.07	14.04	13.05	28.71	28.18	27.93
W-15	16.58	16.52	17.96	17.84	17.39	16.74	15.35	14.81	29.57	29.32	28.80
E-1	24.82	25.17	25.86	28.10	26.05	25.69	25.67	24.13	40.57	40.07	39.55
E-2	26.50	26.37	26.47	27.68	26.59	26.46	26.33	25.47	41.29	41.91	40.09
Pond 1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mean**	28.61	28.64	28.87	30.42	29.05	28.22	27.39	27.02	32.51	32.56	32.16

* Measurements taken by Analytical Laboratory Personnel

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

2008 Groundwater Elevations

Monthly Monitoring

Data Point	1/7/08	1/30/08	2/26/08	3/20/08	4/30/08	5/29/08	6/26/08	7/31/08	8/28/08	9/30/08	10/24/08	11/25/08	12/23/08
W-3	31.42	32.53	32.12	32.30	32.50	32.70	34.20	40.70	32.68	31.96	31.47	31.71	32.88
W-4	30.65	30.66	31.37	31.46	31.58	32.28	32.76	32.14	31.35	30.78	30.36	30.68	31.88
W-5	30.17	30.16	30.68	30.75	28.85	30.45	31.74	31.15	30.39	29.99	29.65	30.05	30.75
W-6	35.51	36.29	36.98	37.21	37.58	37.58	36.76	35.96	35.07	34.68	34.27	35.42	36.38
W-7	32.04	32.43	32.98	32.97	33.15	32.97	32.62	32.12	31.42	31.27	30.97	31.75	32.62
W-8	30.95	30.89	31.83	31.77	32.01	31.88	31.51	31.01	30.28	30.08	29.86	30.64	32.37
W-9	30.33	30.64	30.90	31.01	31.11	31.86	31.87	31.40	30.71	30.31	30.06	30.36	31.26
W-10	30.70	30.65	31.20	31.31	31.41	32.12	32.16	31.75	31.12	30.68	30.41	30.66	31.45
W-11	39.38	40.01	40.57	40.94	41.65	42.07	41.87	41.02	40.40	39.76	39.63	39.39	40.31
W-12	29.69	29.51	30.25	30.31	30.44	30.54	30.59	30.22	29.58	29.30	28.97	28.65	30.98
W-13	29.20	29.22	29.69	29.82	29.89	30.44	31.04	30.49	29.74	29.30	28.96	29.43	30.24
W-14	27.58	27.75	28.17	28.35	28.56	29.17	30.32	29.89	29.21	28.57	28.32	27.95	28.75
W-15	29.18	29.19	29.77	29.99	30.09	30.49	31.72	31.15	30.21	29.52	29.03	30.12	30.36
E-1	38.25	39.16	39.49	39.72	40.03	40.66	41.19	41.03	40.40	39.83	39.40	39.08	39.63
E-2	40.75	40.42	40.56	41.15	41.50	41.96	42.08	41.76	41.19	40.67	40.40	40.23	40.55
Pond 1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mean**	32.39	32.63	33.10	33.27	33.36	33.81	34.16	34.12	32.92	32.45	32.12	32.41	33.36

* Measurements taken by Analytical Laboratory Personnel

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

2009 Groundwater Elevations

Monthly Monitoring

Data Point	1/29/09	2/24/09	3/24/09	4/30/09	5/28/09	6/25/09	7/23/09	8/27/09	9/30/09	10/30/09	11/22/09	12/29/09
W-3	33.04	32.80	33.14	33.48	33.66	34.35	33.65	33.28	33.50	34.20	34.70	36.49
W-4	32.06	31.73	32.03	32.33	32.38	33.07	32.27	32.08	32.32	33.08	33.38	34.96
W-5	31.25	30.91	31.15	31.39	31.35	32.00	31.17	31.20	31.35	32.09	32.25	33.98
W-6	36.69	36.61	37.24	37.86	37.27	37.58	35.98	35.53	35.88	36.82	37.28	39.01
W-7	32.83	32.79	33.04	33.29	33.02	33.23	32.14	31.99	32.37	33.22	33.49	34.27
W-8	31.66	31.41	31.76	32.11	31.88	32.31	31.01	31.24	31.53	32.98	32.66	33.86
W-9	31.43	31.24	31.42	31.60	31.61	32.11	31.41	31.37	31.53	32.06	32.29	33.46
W-10	31.69	31.55	32.60	32.98	33.02	33.46	32.84	32.72	31.86	32.36	32.61	33.76
W-11	40.40	40.66	40.81	41.90	41.92	42.17	41.22	40.59	40.87	41.34	41.52	43.43
W-12	30.82	30.36	30.40	30.94	30.87	28.39	30.44	30.51	30.69	31.54	31.66	32.82
W-13	30.33	30.13	30.07	30.62	30.74	31.42	30.69	30.59	30.84	31.27	31.59	33.14
W-14	29.11	29.07	28.69	29.51	30.09	30.92	30.52	30.22	29.96	30.32	31.02	33.17
W-15	30.63	30.38	30.26	31.09	31.33	32.07	31.49	31.04	31.39	31.74	32.29	34.19
E-1	39.91	39.70	39.55	40.20	40.79	41.16	41.10	40.55	40.60	40.80	41.20	42.27
E-2	40.81	40.84	40.97	41.61	41.97	42.30	41.85	41.36	41.40	41.80	42.10	43.13
Pond 1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mean**	33.51	33.35	33.54	34.06	34.13	34.44	33.85	33.62	33.74	34.37	34.67	36.13

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

2010 Groundwater Elevations

Monthly Monitoring

Data Point	1/25/10	2/22/10	3/25/10	4/29/10	5/28/10	6/30/10	7/29/10	9/2/10	10/8/10	11/2/10	12/3/10	12/29/10
W-3	36.72	36.99	35.73	37.29	36.55	34.84	35.06	34.40	35.20	34.86	34.78	34.70
W-4	35.30	35.52	35.98	35.70	35.02	33.96	34.11	33.29	34.26	33.82	33.63	33.48
W-5	34.25	34.28	34.60	35.07	33.82	32.91	33.03	32.45	33.67	33.07	32.83	32.68
W-6	38.81	39.28	39.73	38.87	37.95	36.72	36.63	36.18	36.48	36.80	36.82	37.33
W-7	34.87	34.90	34.91	34.47	34.02	33.07	33.22	33.05	33.57	33.63	33.55	33.87
W-8	34.21	34.06	33.93	33.42	32.98	32.09	32.80	32.14	33.61	33.14	32.61	32.89
W-9	33.70	33.71	33.71	33.61	33.33	32.71	33.17	32.65	33.60	33.16	33.26	32.92
W-10	34.06	34.20	34.23	34.10	33.80	33.14	33.50	33.01	33.76	33.47	33.36	33.24
W-11	43.63	45.14	46.11	45.07	44.07	42.81	42.92	42.23	42.34	41.68	41.75	41.67
W-12	33.09	33.27	33.34	33.06	32.59	31.84	32.22	31.72	32.68	32.22	32.24	31.94
W-13	33.44	33.51	33.89	33.73	33.40	32.55	32.78	32.08	32.99	32.34	32.31	31.96
W-14	33.61	33.82	34.81	34.65	33.82	33.01	32.67	31.79	32.16	31.62	31.36	30.85
W-15	34.49	34.77	35.69	35.40	34.89	33.85	33.63	32.84	33.14	32.82	32.74	32.53
E-1	43.00	43.86	46.20	46.44	46.00	44.20	44.00	42.90	42.40	42.25	42.08	41.85
E-2	43.36	44.60	46.06	45.81	45.11	44.05	44.10	43.18	42.99	42.74	42.55	42.49
Pond 1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mean**	36.44	36.79	37.26	37.11	36.49	35.45	35.59	34.93	35.52	35.17	35.06	34.96

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

2011 Groundwater Elevations

Monthly Monitoring

Data Point	2/3/11	2/24/11	4/5/11	5/3/11	6/2/11	6/28/11	7/28/11	8/31/11	10/4/11	11/1/11	12/2/11	1/5/12
W-3	35.02	34.61	35.40	35.41	34.95	34.72	34.60	34.35	35.55	35.40	35.12	36.10
W-4	33.84	33.58	34.22	34.24	33.48	33.40	32.20	33.58	34.71	34.23	34.05	34.78
W-5	33.40	33.20	33.25	32.96	32.75	32.66	32.50	32.63	33.74	33.33	33.14	33.68
W-6	38.05	37.86	38.73	38.91	37.33	36.92	36.68	36.38	37.48	37.23	37.83	38.43
W-7	34.35	34.07	34.55	34.42	33.97	33.72	33.27	32.93	33.98	33.92	34.08	34.37
W-8	33.27	33.06	33.53	33.44	32.36	31.79	31.31	33.49	33.63	33.46	33.53	33.57
W-9	33.19	32.96	33.41	33.47	32.84	32.29	31.82	33.46	33.65	33.33	33.21	33.58
W-10	33.51	33.36	34.56	33.83	33.26	32.66	32.19	33.39	33.95	33.65	33.55	33.94
W-11	42.02	42.22	42.17	42.12	41.61	40.93	40.65	41.02	42.20	41.92	42.02	42.92
W-12	32.34	32.12	32.54	32.42	32.85	31.36	30.74	32.52	33.14	32.56	32.39	32.85
W-13	32.16	31.99	32.54	32.69	32.04	31.39	30.84	32.45	33.11	32.74	32.52	33.17
W-14	31.32	31.06	31.87	31.68	31.35	30.59	30.25	31.08	32.80	32.40	33.02	33.12
W-15	32.79	32.57	32.84	32.97	32.43	32.07	31.22	32.14	33.91	33.45	33.11	34.09
E-1	42.35	41.85	42.71	42.88	42.68	42.25	42.15	41.22	42.15	42.70	42.85	40.35
E-2	42.75	42.89	43.85	44.22	43.50	42.85	42.28	42.17	42.97	43.07	42.83	43.42
Pond 1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mean**	35.36	35.16	35.74	35.71	35.16	34.64	34.18	34.85	35.80	35.56	35.55	35.89

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

2012 Groundwater Elevations

Monthly Monitoring

Data Point	1/31/12	February-12	March-12	April-12	May-12	6/18/12	7/30/12	August-12	9/28/12	October-12	November-12	12/28/12
W-3	35.35	35.72	35.38	34.88	34.74	35.06	32.94	33.20	32.85	34.73	34.25	34.57
W-4	34.70	34.68	34.21	33.97	33.56	34.12	32.11	32.56	32.03	33.96	33.26	34.03
W-5	33.60	33.95	33.22	33.21	32.80	33.04	31.33	31.48	31.60	33.73	32.98	33.33
W-6	38.78	39.74	38.73	38.85	37.59	38.11	35.62	35.94	35.53	37.41	36.65	36.88
W-7	33.98	34.88	34.37	34.41	33.54	33.96	32.18	32.39	31.46	33.42	33.51	34.09
W-8	33.53	34.15	33.69	33.49	32.50	32.62	31.43	32.15	31.71	33.51	32.84	33.73
W-9	33.53	33.69	33.35	33.37	32.87	33.48	31.79	32.29	31.97	33.47	32.99	33.29
W-10	33.92	34.01	33.72	33.76	33.21	33.80	32.14	32.54	32.29	33.52	33.21	33.50
W-11	42.98	43.23	43.01	43.58	42.62	42.95	40.87	40.87	40.36	41.92	40.73	41.02
W-12	32.68	33.02	32.57	32.56	31.92	32.53	30.72	31.46	30.93	32.46	32.06	32.54
W-13	32.96	33.05	32.54	33.31	32.11	32.65	30.75	31.11	30.75	32.78	32.26	32.51
W-14	32.99	32.57	31.90	31.96	31.66	32.14	30.45	31.04	30.47	32.52	32.57	31.67
W-15	33.99	33.64	33.10	33.17	32.31	33.42	30.83	31.00	30.69	32.81	32.73	32.84
E-1	43.65	40.25	41.32	41.94	42.11	42.41	40.82	40.40	40.15	41.99	40.53	40.48
E-2	43.40	43.54	42.98	43.54	43.15	43.76	41.87	41.55	41.27	43.25	41.31	41.66
Pond 1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mean**	36.00	36.01	35.61	35.73	35.11	35.60	33.72	34.00	33.60	35.43	34.79	35.08

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

2013 Groundwater Elevations

Monthly Monitoring

Data Point	1/29/13	2/13/13	3/29/13	4/13/13	5/31/13	June-13	7/31/13	8/30/13	9/27/13	10/30/13	11/22/13	12/20/13
W-3	34.60	34.92	35.38	34.88	34.74	35.06	34.79	34.27	33.72	33.85	33.27	34.22
W-4	33.98	33.81	34.21	33.97	33.56	34.12	33.77	33.26	32.47	32.52	32.11	33.19
W-5	33.24	32.99	33.22	33.21	32.80	33.04	32.94	32.40	31.53	31.80	30.80	32.49
W-6	37.80	37.91	38.73	38.85	37.59	38.11	37.09	36.44	35.78	36.05	DRY	36.51
W-7	34.02	34.09	34.37	34.41	33.54	33.96	33.33	33.15	32.41	32.63	32.32	33.22
W-8	33.21	33.23	33.69	33.49	32.50	32.62	32.57	32.12	31.46	31.96	31.39	33.08
W-9	33.16	33.12	33.35	33.37	32.87	33.48	33.06	32.59	32.06	32.11	31.99	32.69
W-10	33.48	33.45	33.72	33.76	33.21	33.80	33.54	32.98	32.38	32.46	32.35	33.05
W-11	41.54	41.79	43.01	43.58	42.62	42.95	42.39	41.75	41.29	41.87	40.74	41.37
W-12	32.42	32.23	32.57	32.56	31.92	32.53	32.10	31.67	31.11	31.04	30.78	31.53
W-13	32.41	32.25	32.54	33.31	32.11	32.65	32.33	31.77	31.09	31.14	30.69	31.50
W-14	31.62	31.55	31.90	31.96	31.66	32.14	30.90	31.46	30.66	30.27	29.77	30.20
W-15	32.94	32.78	33.10	33.17	32.31	33.42	33.01	33.37	32.02	31.49	30.88	32.98
E-1	40.58	40.68	41.32	41.94	42.11	42.41	42.39	41.86	41.18	41.31	40.42	40.41
E-2	41.98	42.14	42.98	43.54	43.15	43.76	43.34	42.68	42.07	42.35	41.38	42.06
Pond 1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mean**	35.13	35.13	35.61	35.73	35.11	35.60	35.17	34.78	34.08	34.19	33.49	34.57

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

2014 Groundwater Elevations

Monthly Monitoring

Data Point	1/27/14	2/20/14	3/6/14	4/9/14	5/5/14	6/11/14	7/10/14	8/23/14	9/9/14	10/10/14	11/5/14	12/2/14
W-3	34.86	35.41	35.70	35.48	35.80	35.15	35.05	35.35	34.79	34.28	34.25	34.18
W-4	34.00	34.36	34.46	34.78	35.28	34.38	34.08	34.40	33.96	33.21	33.12	33.24
W-5	33.15	33.53	33.65	33.60	33.89	33.41	33.10	33.85	33.15	32.24	32.15	32.56
W-6	37.95	38.83	38.68	39.10	39.62	37.70	37.28	36.89	36.45	35.98	36.86	36.84
W-7	33.85	34.52	34.42	34.53	34.75	33.96	33.85	33.50	33.72	33.55	33.58	33.92
W-8	32.99	33.88	33.73	33.71	33.91	32.95	32.76	33.11	32.71	32.36	32.69	33.21
W-9	32.87	33.58	33.54	33.59	33.68	33.27	33.11	33.43	33.08	32.61	32.62	32.82
W-10	33.24	33.94	34.00	34.00	34.14	33.65	33.46	33.71	33.39	32.93	32.44	32.91
W-11	42.07	42.71	43.22	44.44	45.19	43.26	43.02	42.10	41.95	41.29	41.49	41.59
W-12	31.72	32.35	32.69	33.01	33.22	32.31	32.19	32.69	32.12	31.66	31.64	32.10
W-13	31.84	32.72	32.74	32.99	34.15	33.32	32.51	32.98	32.59	31.93	31.80	31.94
W-14	30.76	31.56	31.92	32.53	33.38	33.05	32.87	33.02	32.88	31.47	31.45	30.97
W-15	32.64	33.09	33.29	33.40	33.97	33.94	33.84	33.84	33.31	32.53	32.52	32.47
E-1	41.01	41.51	42.15	42.80	43.52	43.86	43.68	43.05	42.33	41.69	41.39	41.51
E-2	42.48	43.05	43.30	44.24	44.89	44.18	44.30	45.78	42.86	42.32	42.48	42.58
Pond 1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mean**	35.03	35.67	35.83	36.15	36.63	35.89	35.67	35.85	35.29	34.67	34.70	34.86

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

2015 Groundwater Elevations

Monthly Monitoring

Data Point	1/8/15	2/3/15	3/5/15	4/9/15	5/5/15	6/10/15	7/1/15	8/12/15	9/17/15	10/1/15	11/5/15	12/10/15
W-3	34.78	-	34.16	35.68	35.65	35.35	35.58	34.50	-	-	33.16	33.70
W-4	33.99	34.27	35.46	35.01	34.91	34.73	35.10	33.39	33.11	33.27	32.13	32.13
W-5	33.20	32.56	34.21	33.40	33.31	32.93	33.16	31.93	31.84	31.90	30.85	31.40
W-6	37.88	36.84	40.15	38.65	38.55	37.42	-	-	36.33	36.53	35.93	36.98
W-7	33.94	33.92	35.50	34.55	34.23	33.82	33.87	32.92	32.90	32.98	32.67	32.87
W-8	33.10	33.21	35.76	33.53	33.26	33.05	33.19	31.93	33.07	33.15	31.62	32.16
W-9	33.00	32.82	34.34	33.54	33.40	32.90	33.08	32.33	32.68	32.65	31.61	31.73
W-10	33.36	32.91	35.46	33.88	33.79	33.36	33.62	32.73	31.80	31.68	32.01	32.06
W-11	41.75	41.59	43.93	44.24	44.45	43.76	43.82	42.00	41.53	42.15	40.72	41.17
W-12	32.01	32.10	33.03	32.91	32.57	32.02	32.51	31.46	30.77	30.81	30.64	31.09
W-13	32.10	31.94	33.00	33.12	32.85	32.37	32.65	32.01	31.03	30.89	30.62	30.54
W-14	30.95	30.97	32.42	32.15	32.21	31.53	32.27	31.15	30.57	30.86	29.67	29.27
W-15	32.84	32.47	34.29	34.19	34.38	33.27	33.76	32.47	31.99	32.04	30.89	30.74
E-1	40.88	41.51	-	43.72	44.06	43.66	43.70	42.88	42.60	42.75	40.95	41.10
E-2	42.13	42.58	43.75	44.73	45.08	44.30	44.28	43.24	42.41	42.52	41.92	41.52
Pond 1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mean**	35.06	34.98	36.10	36.22	36.18	35.63	35.76	34.64	34.47	34.58	33.69	33.90

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

2016 Groundwater Elevations

Monthly Monitoring

Data Point	1/20/16	2/11/16	3/16/16	4/8/16	5/4/16	6/6/16	7/21/16	8/16/2016	9/26/2016	10/18/2016	11/11/2016	12/16/2016
W-3	33.70	34.60	35.20	34.90	34.60	35.15	34.97	34.97	33.70	34.27	33.02	32.50
W-4	32.68	33.38	33.88	33.53	33.43	33.48	33.68	33.68	32.51	33.04	32.53	31.58
W-5	31.75	32.25	32.70	32.40	32.50	32.65	32.83	32.24	31.60	32.05	31.65	31.30
W-6	37.68	38.46	38.65	37.28	38.48	38.13	37.58	36.77	36.03	36.94	36.23	36.88
W-7	33.55	33.92	34.32	34.22	34.17	34.30	33.86	33.17	32.87	33.27	32.52	32.79
W-8	32.42	34.06	34.11	32.76	32.11	32.56	32.91	34.01	31.56	32.39	31.65	31.56
W-9	31.96	32.36	32.71	32.46	32.41	32.76	32.86	30.42	31.88	32.28	31.86	31.40
W-10	32.41	32.76	34.01	32.91	32.86	33.16	33.26	32.76	32.28	32.61	32.56	32.31
W-11	42.02	42.72	41.47	43.07	43.22	43.37	43.07	42.37	41.60	41.84	41.02	40.57
W-12	31.09	31.34	31.89	31.54	31.74	31.74	31.91	31.34	30.79	31.29	30.64	29.99
W-13	30.72	30.85	31.89	31.64	31.94	32.04	32.07	31.61	30.99	31.39	30.34	29.94
W-14	29.67	30.17	31.17	30.57	30.87	30.57	31.54	31.06	30.32	30.50	29.62	28.97
W-15	31.29	31.89	32.69	32.09	31.29	31.69	32.79	32.24	31.57	31.99	31.34	30.14
E-1	40.80	41.25	41.93	41.95	42.20	42.60	42.65	42.20	42.28	41.60	40.80	40.80
E-2	42.50	42.80	43.50	43.30	43.40	43.00	43.68	43.20	42.60	42.65	42.15	41.65
Pond 1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mean**	34.28	34.85	35.34	34.97	35.01	35.15	35.31	34.80	34.17	34.54	33.86	33.49

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

2017 Groundwater Elevations

Monthly Monitoring

Data Point	1/19/17	2/23/17	3/24/17	4/21/17	5/17/17	6/7/17	7/19/2017	8/25/2017	09/22/2017	10/26/2017	11/27/2017	12/08/2017
W-3	33.25	33.00	33.20	33.60	32.80	33.40	33.49	33.65	33.15	31.85	31.67	32.10
W-4	32.32	32.03	32.53	32.47	31.83	32.23	32.36	32.53	32.03	31.04	30.93	31.08
W-5	31.53	31.25	31.60	31.50	31.30	31.35	31.54	31.55	31.05	30.50	30.46	30.45
W-6	37.32	37.08	37.88	37.83	37.23	37.33	37.28	36.73	36.03	35.50	36.80	37.08
W-7	33.52	33.22	33.57	33.47	32.94	33.17	33.17	32.62	32.24	31.63	32.35	32.62
W-8	32.42	31.76	32.46	31.96	31.41	31.66	31.80	31.91	31.11	30.45	30.94	31.01
W-9	31.77	31.61	31.81	31.72	31.46	32.06	31.82	31.81	31.41	30.75	30.76	31.01
W-10	32.20	32.01	32.21	32.16	31.84	32.06	32.16	32.11	31.76	31.16	31.14	31.26
W-11	41.57	41.06	40.87	42.28	41.59	41.97	42.02	41.27	40.77	40.37	41.05	41.67
W-12	30.89	30.59	30.65	30.86	30.34	30.69	30.82	30.99	30.29	29.16	29.42	29.74
W-13	30.69	30.39	30.54	30.74	30.14	30.64	30.94	31.34	30.39	29.09	29.07	28.89
W-14	29.42	29.20	29.32	29.67	28.89	29.77	29.92	29.77	29.42	28.07	27.87	28.55
W-15	30.84	30.59	31.09	31.14	30.74	31.44	31.53	31.43	30.89	29.59	29.54	29.79
E-1	40.24	40.17	40.35	41.60	40.41	40.60	40.15	40.00	39.70	39.15	38.95	38.70
E-2	41.75	41.65	41.95	42.30	42.15	42.15	42.05	41.78	41.38	40.65	41.05	40.50
Pond 1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mean**	33.98	33.71	34.00	34.22	33.67	34.03	34.07	33.97	33.44	32.60	32.80	32.96

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

2018 Groundwater Elevations

Monthly Monitoring

Data Point	1/6/18	2/1/18	3/8/18	4/12/18	5/2/18	6/7/18	7/13/18	8/23/18	9/14/18	10/18/18	11/13/18	12/10/2018
W-3	31.75	31.42	33.65	34.25	34.40	34.90	34.25	34.90	34.75	35.50	36.10	35.92
W-4	30.88	30.82	32.78	33.28	33.16	34.14	33.17	33.58	33.33	34.13	34.78	34.54
W-5	30.20	30.47	32.07	31.90	31.70	32.25	31.45	32.23	31.87	32.88	33.55	33.35
W-6	37.33	37.53	38.58	38.43	38.58	38.81	37.19	37.13	36.98	37.13	38.93	38.91
W-7	32.47	32.87	33.67	33.62	33.72	34.19	32.72	34.12	33.59	33.82	34.67	34.20
W-8	30.81	31.51	32.51	32.56	32.26	32.71	31.41	30.81	30.42	33.01	33.76	33.00
W-9	30.76	30.76	31.61	31.91	31.91	32.61	31.96	32.26	31.76	32.66	33.01	32.74
W-10	31.16	31.06	32.06	31.91	32.39	33.06	32.46	32.76	32.45	33.06	33.46	33.31
W-11	42.32	41.72	43.12	42.92	43.77	44.55	43.57	42.87	42.67	43.67	44.52	44.92
W-12	29.49	29.39	30.84	31.09	30.56	31.22	30.74	31.34	31.19	31.84	32.49	31.79
W-13	28.69	28.94	30.54	31.02	31.44	32.14	31.64	34.84	31.69	32.29	32.84	32.39
W-14	28.22	27.37	29.62	30.77	31.02	32.02	31.47	32.37	31.57	32.44	32.55	33.02
W-15	29.44	29.09	31.39	32.04	32.64	33.54	32.84	33.39	33.29	33.74	33.96	34.29
E-1	38.75	38.52	39.80	40.51	40.85	41.80	41.20	42.28	42.15	42.25	42.51	43.20
E-2	46.40	40.90	42.25	42.89	42.89	44.10	43.38	43.50	43.40	44.10	44.50	44.75
Pond 1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mean**	33.24	32.82	34.30	34.61	34.75	35.47	34.63	35.23	34.74	35.50	36.11	36.02

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

2019 Groundwater Elevations

Monthly Monitoring

Data Point	1/9/19	2/7/19	3/14/19	4/24/19	5/10/19	6/7/19	7/3/19	8/16/19	9/13/19	10/29/19	11/22/19	12/12/19
W-3	37.45	37.00	37.70	37.14	37.17	36.88	35.79	35.05	34.05	33.56	33.01	33.21
W-4	35.88	35.53	36.34	35.65	35.62	35.37	34.78	33.60	32.78	32.37	31.98	32.36
W-5	34.20	34.05	34.37	34.06	34.12	33.83	33.05	32.35	33.83	31.48	31.05	31.48
W-6	39.68	39.13	39.97	39.35	39.63	38.43	37.53	36.63	36.03	36.34	36.38	36.99
W-7	34.92	34.67	35.15	34.88	35.02	33.80	33.62	32.92	32.27	32.90	32.77	33.24
W-8	33.71	33.61	33.93	33.63	33.92	33.10	32.56	31.73	31.16	31.96	31.36	32.34
W-9	33.71	33.61	33.78	33.64	33.65	33.49	33.01	32.26	31.68	31.44	31.23	31.42
W-10	34.16	34.06	34.34	34.14	34.16	33.91	33.51	32.76	32.24	31.83	31.70	31.81
W-11	46.47	45.82	47.51	46.37	46.84	45.58	44.39	42.72	41.92	40.19	41.07	41.35
W-12	33.04	32.89	32.74	32.92	32.98	32.66	32.14	31.26	30.49	30.62	30.24	30.66
W-13	33.79	33.74	33.29	33.64	33.65	33.44	32.94	31.92	31.14	30.75	30.31	30.51
W-14	34.87	34.47	35.02	34.60	34.43	34.72	33.77	32.47	31.57	30.36	29.87	29.67
W-15	35.69	35.24	35.94	35.42	35.37	35.27	34.64	33.49	32.59	31.40	31.09	30.94
E-1	44.60	45.00	46.84	46.63	46.59	46.42	45.60	43.90	42.85	41.51	41.05	40.68
E-2	46.10	46.05	47.35	46.71	46.86	46.25	45.30	43.90	43.05	42.18	41.90	41.87
Pond 1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mean**	37.22	36.99	37.62	37.25	37.33	36.88	36.18	35.13	34.51	33.93	33.67	33.90

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

R.B. Baker & Sons Rubble Landfill

2020 Groundwater Elevations

Monthly Monitoring

Data Point	1/22/20	2/17/20	3/3/20	4/8/20	5/12/20	6/2/20	7/4/20	8/20/20	9/4/20	10/8/20	11/13/20	12/11/20
W-3	33.55	34.35	34.14	34.40	34.90	34.50	33.40	34.20	35.10	35.80	36.20	36.90
W-4	32.48	33.23	32.94	33.08	33.55	33.10	31.93	32.73	34.03	34.28	34.98	35.33
W-5	31.75	31.94	31.71	31.80	32.15	31.75	30.95	31.45	33.65	32.80	33.90	33.65
W-6	37.68	38.55	38.13	38.58	39.03	38.63	36.23	37.47	37.43	37.73	39.18	39.18
W-7	33.98	33.87	33.73	33.87	34.02	33.62	32.72	33.57	35.17	34.37	34.17	34.57
W-8	32.11	32.88	32.15	32.31	32.61	32.06	30.76	33.01	34.06	32.81	33.51	33.41
W-9	31.61	31.93	31.86	31.96	32.21	31.72	31.16	32.21	33.71	32.66	33.71	33.26
W-10	32.06	32.42	32.35	32.44	32.71	32.46	31.76	32.61	34.26	33.16	34.26	33.79
W-11	42.12	42.89	42.76	42.92	44.47	43.47	41.67	42.77	42.24	41.72	45.17	44.42
W-12	30.84	31.20	30.71	31.04	31.34	30.94	29.94	29.51	32.24	31.79	32.24	32.64
W-13	30.49	30.97	30.89	31.04	31.41	31.04	30.34	31.64	32.19	32.34	32.94	33.24
W-14	29.77	29.90	30.10	29.97	30.77	30.22	29.87	30.97	31.44	32.67	34.12	34.02
W-15	31.04	31.64	31.65	32.09	32.54	32.04	31.09	32.64	32.79	33.94	34.79	35.09
E-1	41.25	41.08	41.27	41.50	42.05	41.45	40.75	41.66	41.70	42.20	43.40	43.50
E-2	42.40	42.75	42.79	43.40	44.05	43.20	41.90	42.88	42.80	43.40	44.50	44.60
Pond 1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pond 5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mean**	34.21	34.64	34.48	34.69	35.19	34.68	33.63	34.62	35.52	35.44	36.47	36.51

NR - No Reading

NA - Not Applicable

** Wells 3 to E-2 only

APPENDIX D

LIST OF ANALYTES

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING PLAN
LIST OF ANALYTES

Analyte	CAS No.	Units	EPA MCL	Analysis Method	Detection Limit
Indicators					
pH	---	Units	6.5-8.5	EPA 9040	0.1
Specific Conductance	---	umhos/cm	NS	EPA 9050A	1
Alkalinity	1317-65-3	mg/l	NS	SM 2320B	20
Chloride	16887-00-6	mg/l	250	SM 4500-CL-E	1
Hardness	---	mg/l	NS	SM 2340C	1
Turbidity	---	NTU	15	EPA 180.1	0.05
Total Dissolved Solids	C-010	mg/l	500	SM 2540C	25
Chemical Oxygen Demand	C-004	mg/l	NS	SM 5220 D	10
Sulfate	12772-98-4	mg/l	250	EPA 9038	10
Nitrate	C-005	mg/l	10	EPA 9210	0.05
Ammonia	7664-41-7	mg/l	NS	SM 4500NH3-C	0.2
Metals	**CAS No.**	**Units**	**EPA MCL**	**Analysis Method**	**Detection Limit**
Antimony	7440-36-0	ug/l	6	EPA 6020	5
Arsenic	7440-38-2	ug/l	10	EPA 6020	2
Barium	7440-39-3	ug/l	2,000	EPA 6020	5
Beryllium	7440-41-7	ug/l	4	EPA 6020	2.0
Cadmium	7440-43-9	ug/l	5	EPA 6020	2.0
Calcium	7440-70-2	ug/l	NS	EPA 6010C	200
Chromium	7440-47-3	ug/l	100	EPA 6020	2
Cobalt	7440-48-4	ug/l	NS	EPA 6020	2
Copper	7440-50-8	ug/l	1,300	EPA 6020	2
Iron	7439-89-6	ug/l	300	EPA 6010C	50
Lead	7439-92-1	ug/l	15	EPA 6020	2
Magnesium	7439-95-4	ug/l	NS	EPA 6010C	200
Manganese	7439-96-5	ug/l	50	EPA 6010C	2
Mercury	7439-97-6	ug/l	2	EPA 7471	0.5
Nickel	7440-02-0	ug/l	NS	EPA 6020	2
Potassium	7440-09-7	ug/l	NS	EPA 6010C	200
Selenium	7782-49-2	ug/l	50	EPA 6020	5
Silver	7440-22-4	ug/l	100	EPA 6020	2
Sodium	7440-23-5	ug/l	NS	EPA 6010C	500
Thallium	7440-28-0	ug/l	2	EPA 6020	1
Vanadium	7440-62-2	ug/l	NS	EPA 6020	2
Zinc	7440-66-6	ug/l	5,000	EPA 6020	20
Volatile Organic Compounds	**CAS No.**	**Units**	**EPA MCL**	**Analysis Method**	**Detection Limit**
Acetone	67-64-1	ug/l	NS	EPA 8260	5
Acrylonitrile	107-13-1	ug/l	NS	EPA 8260	5
Benzene	71-43-2	ug/l	5	EPA 8260	1
Bromochloromethane	74-97-5	ug/l	NS	EPA 8260	1
Bromodichloromethane	75-27-4	ug/l	100	EPA 8260	1
Bromoform	75-25-2	ug/l	100	EPA 8260	1
Bromomethane	74-83-9	ug/l	NS	EPA 8260	1
2-Butanone	78-93-3	ug/l	NS	EPA 8260	5
Carbon disulfide	75-15-0	ug/l	NS	EPA 8260	1
Carbon Tetrachloride	56-23-5	ug/l	5	EPA 8260	1
Chlorobenzene	108-90-7	ug/l	100	EPA 8260	1
Chloroethane	75-00-3	ug/l	NS	EPA 8260	1
Chloroform	67-66-3	ug/l	NS	EPA 8260	1
Chloromethane	74-87-3	ug/l	NS	EPA 8260	1
Dibromochloromethane	124-48-1	ug/l	NS	EPA 8260	1
1,2-Dibromo-3-chloropropane	96-12-8	ug/l	0.2	EPA 8260	5
1,2-Dibromoethane (EDB)	106-93-4	ug/l	NS	EPA 8260	1
Dibromomethane	74-95-3	ug/l	NS	EPA 8260	1
1,2-Dichlorobenzene	95-50-1	ug/l	600	EPA 8260	1
1,4-Dichlorobenzene	106-46-7	ug/l	75	EPA 8260	1
Trans-1,4-dichloro-2-butene	110-57-6	ug/l	NS	EPA 8260	5
1,1-Dichloroethane	75-34-3	ug/l	NS	EPA 8260	1
1,2-Dichloroethane	107-06-2	ug/l	5	EPA 8260	1
1,1-Dichloroethene	75-35-4	ug/l	7	EPA 8260	1
cis-1,2-Dichloroethene	156-59-2	ug/l	70	EPA 8260	1
trans-1,2-Dichloroethene	156-60-5	ug/l	100	EPA 8260	1
Methylene Chloride	75-09-2	ug/l	NS	EPA 8260	1
1,2-Dichloropropane	78-87-5	ug/l	5	EPA 8260	1
trans-1,3-Dichloropropene	10061-02-6	ug/l	NS	EPA 8260	1
cis-1,3-Dichloropropene	10061-01-5	ug/l	NS	EPA 8260	1
Ethylbenzene	100-41-4	ug/l	700	EPA 8260	1

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING PLAN
LIST OF ANALYTES

Volatile Organic Compounds Cont.	CAS No.	Units	EPA MCL	Analysis Method	Detection Limit
2-Hexanone	591-78-6	ug/l	NS	EPA 8260	5
Iodomethane	74-88-4	ug/l	NS	EPA 8260	1
4-Methyl-2-pentanone	108-10-1	ug/l	NS	EPA 8260	5
Methyl Tertiary Butyl Ether	1634-04-4	ug/l	70*	EPA 8260	2
Styrene	100-42-5	ug/l	100	EPA 8260	1
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	NS	EPA 8260	1
1,1,2,2-Tetrachloroethane	79-34-5	ug/l	NS	EPA 8260	1
Tetrachloroethene	127-18-4	ug/l	NS	EPA 8260	1
Toluene	108-88-3	ug/l	1,000	EPA 8260	1
1,1,1-Trichloroethane	71-55-6	ug/l	200	EPA 8260	1
1,1,2-Trichloroethane	79-00-5	ug/l	5	EPA 8260	1
Trichloroethene	79-01-6	ug/l	5	EPA 8260	1
Trichlorofluoromethane	75-69-4	ug/l	NS	EPA 8260	1
1,2,3-Trichloropropane	96-18-4	ug/l	NS	EPA 8260	1
Vinyl acetate	108-05-4	ug/l	NS	EPA 8260	1
Vinyl Chloride	75-01-4	ug/l	2	EPA 8260	1
Xylene	1330-20-7	ug/l	10,000	EPA 8260	1

Current as of 11/25/2013
NS - No Standard
* New Jersy Standard, No EPA Std.

APPENDIX E

STATISTICAL ANALYSIS

PH

Kruskal-Wallis Non-Parametric Test

Parameter: pH

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	4.4	14
	10/27/16	4.97	32
	03/29/17	4.12	9
	03/28/18	4.04	8
	09/27/18	4.36	11
	03/25/19	3.67	4
	09/24/19	4.79	28
	03/30/20	4.49	16
	09/29/20	4.49	17

Rank Sum = 139
Rank Mean = 15.4444

Background Rank Sum = 139
Background Rank Mean = 15.4444

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	7.91	92
	10/27/16	8.91	98
	03/29/17	6.37	67
	09/18/17	8.83	97
	03/28/18	7.6	91
	09/27/18	8.02	93
	03/25/19	7.06	89
	09/24/19	8.6	96
	03/30/20	8.35	95
	09/29/20	8.21	94

Rank Sum = 912
Rank Mean = 91.2

W-10	03/30/16	6.47	70
	10/27/16	6.49	73
	03/29/17	6	58
	03/28/18	5.39	46
	09/27/18	5.85	55
	03/25/19	5.85	56
	09/24/19	6.19	63
	03/30/20	6.2	64
	09/29/20	6.2	65

Rank Sum = 550
Rank Mean = 61.1111

W-3	03/30/16	6.41	68
	10/27/16	7	87
	03/29/17	6.55	77
	09/18/17	6.55	78

	03/28/18	6.53	75
	09/27/18	6.53	76
	03/25/19	6.14	60
	09/24/19	6.52	74
	03/30/20	6.71	82
	09/29/20	6.59	79

Rank Sum = 756
Rank Mean = 75.6

W-4	03/30/16	6.47	71
	10/27/16	7.16	90
	03/29/17	6.23	66
	09/18/17	6.74	83
	03/28/18	6.94	86
	09/27/18	6.6	80
	03/25/19	6.48	72
	09/24/19	6.79	85
	03/30/20	7.02	88
	09/29/20	6.76	84

Rank Sum = 805
Rank Mean = 80.5

W-5	03/30/16	5.22	40
	10/27/16	6.18	62
	03/29/17	4.38	12
	09/18/17	5.57	49
	03/28/18	6	59
	09/27/18	6.14	61
	03/25/19	5.69	52
	09/24/19	6.61	81
	03/30/20	5.47	47
	09/29/20	6.43	69

Rank Sum = 532
Rank Mean = 53.2

W-6	03/30/16	4.61	20
	10/27/16	5.19	39
	03/29/17	4.48	15
	09/18/17	4.58	19
	03/28/18	3.33	1
	09/27/18	4.33	10
	03/25/19	3.88	7
	09/24/19	4.72	24
	03/30/20	4.8	29
	09/29/20	4.56	18

Rank Sum = 182
Rank Mean = 18.2

W-7	03/30/16	4.67	23
	10/27/16	5.59	50
	03/29/17	3.74	5
	09/18/17	4.64	22
	03/28/18	3.48	2
	09/27/18	5.59	51
	03/25/19	5.31	42
	09/24/19	5.04	33
	03/30/20	5.89	57

	09/29/20	5.82	54

Rank Sum = 339
Rank Mean = 33.9

W-8	03/30/16	4.72	25
	10/27/16	5.16	37
	03/29/17	3.8	6
	09/18/17	5.14	36
	03/28/18	3.61	3
	09/27/18	4.84	30
	03/25/19	4.38	13
	09/24/19	4.77	27
	03/30/20	4.89	31
	09/29/20	5.49	48

Rank Sum = 256
Rank Mean = 25.6

W-9	03/30/16	5.18	38
	10/27/16	5.72	53
	03/29/17	5.09	35
	09/18/17	5.34	43
	03/28/18	4.63	21
	09/27/18	5.06	34
	03/25/19	4.74	26
	09/24/19	5.36	45
	03/30/20	5.34	44
	09/29/20	5.23	41

Rank Sum = 380
Rank Mean = 38

Calculation Results:

Kruskal-Wallis H Statistic = 80.2281
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 80.2281
95% Confidence comparison value is 16.919 at 9 degrees of freedom
80.2281 > 16.919 indicating possible contamination at 5% significance level
80.2281 > 16.919 indicating possible contamination at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 15.4444

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	91.2	75.7556	30.3927
W-10	61.1111	45.6667	31.1822
W-3	75.6	60.1556	30.3927
W-4	80.5	65.0556	30.3927
W-5	53.2	37.7556	30.3927
W-6	18.2	2.75556	30.3927
W-7	33.9	18.4556	30.3927
W-8	25.6	10.1556	30.3927
W-9	38	22.5556	30.3927

Individual Well Comparisons at Groupwise 5% Significance Level (0.555556% Significance Level per comparison)

0.555556% Z score is 2.57583

Mean background rank is 15.4444

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	91.2	75.7556	33.6522
W-10	61.1111	45.6667	34.5264
W-3	75.6	60.1556	33.6522
W-4	80.5	65.0556	33.6522
W-5	53.2	37.7556	33.6522
W-6	18.2	2.75556	33.6522
W-7	33.9	18.4556	33.6522
W-8	25.6	10.1556	33.6522
W-9	38	22.5556	33.6522

SPECIFIC CONDUCTIVITY

Kruskal-Wallis Non-Parametric Test

Parameter: Specific Conductivity

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	410	72
	10/27/16	400	67
	03/29/17	481	82
	03/28/18	512	88
	09/27/18	460	77
	03/25/19	402	68
	09/24/19	452	75
	03/30/20	412	73
	09/29/20	260	35

Rank Sum = 637
Rank Mean = 70.7778

Background Rank Sum = 637
Background Rank Mean = 70.7778

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	370	59
	10/27/16	307	44
	03/29/17	378	63
	09/18/17	256	34
	03/28/18	321	49
	09/27/18	310	46
	03/25/19	293	43
	09/24/19	343	52
	03/30/20	381	65
	09/29/20	191	24

Rank Sum = 479
Rank Mean = 47.9

W-10	03/30/16	370	60
	10/27/16	498	85
	03/29/17	212	29
	03/28/18	192	25
	09/27/18	167	23
	03/25/19	507	87
	09/24/19	479	81
	03/30/20	534	89
	09/29/20	482	83

Rank Sum = 562
Rank Mean = 62.4444

W-3	03/30/16	470	78
	10/27/16	193	26
	03/29/17	404	69
	09/18/17	335	51

	03/28/18	484	84
	09/27/18	361	56
	03/25/19	470	79
	09/24/19	363	57
	03/30/20	578	90
	09/29/20	393	66

Rank Sum = 656
Rank Mean = 65.6

W-4	03/30/16	880	98
	10/27/16	109	18
	03/29/17	406	70
	09/18/17	729	93
	03/28/18	373	61
	09/27/18	838	96
	03/25/19	359	54
	09/24/19	839	97
	03/30/20	365	58
	09/29/20	245	33

Rank Sum = 678
Rank Mean = 67.8

W-5	03/30/16	130	21
	10/27/16	65	8
	03/29/17	87	14
	09/18/17	29	2
	03/28/18	408	71
	09/27/18	724	92
	03/25/19	455	76
	09/24/19	800	95
	03/30/20	284	41
	09/29/20	504	86

Rank Sum = 506
Rank Mean = 50.6

W-6	03/30/16	110	19
	10/27/16	94	15
	03/29/17	104	17
	09/18/17	72	9
	03/28/18	85	13
	09/27/18	148	22
	03/25/19	83	12
	09/24/19	97	16
	03/30/20	113	20
	09/29/20	75	10

Rank Sum = 153
Rank Mean = 15.3

W-7	03/30/16	230	32
	10/27/16	213	30
	03/29/17	271	37
	09/18/17	204	27
	03/28/18	272	38
	09/27/18	433	74
	03/25/19	621	91
	09/24/19	352	53
	03/30/20	757	94

	09/29/20	472	80

Rank Sum = 556
Rank Mean = 55.6

W-8	03/30/16	61	5
	10/27/16	330	50
	03/29/17	63	7
	09/18/17	44	4
	03/28/18	76	11
	09/27/18	0.056	1
	03/25/19	268	36
	09/24/19	219	31
	03/30/20	62	6
	09/29/20	29	3

Rank Sum = 154
Rank Mean = 15.4

W-9	03/30/16	360	55
	10/27/16	375	62
	03/29/17	312	47
	09/18/17	314	48
	03/28/18	308	45
	09/27/18	378	64
	03/25/19	278	39
	09/24/19	279	40
	03/30/20	292	42
	09/29/20	210	28

Rank Sum = 470
Rank Mean = 47

Calculation Results:

Kruskal-Wallis H Statistic = 43.6865
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 43.6865
95% Confidence comparison value is 16.919 at 9 degrees of freedom
43.6865 > 16.919 indicating possible contamination at 5% significance level
43.6865 > 16.919 indicating possible contamination at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 70.7778

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	47.9	-22.8778	30.3927
W-10	62.4444	-8.33333	31.1822
W-3	65.6	-5.17778	30.3927
W-4	67.8	-2.97778	30.3927
W-5	50.6	-20.1778	30.3927
W-6	15.3	-55.4778	30.3927
W-7	55.6	-15.1778	30.3927
W-8	15.4	-55.3778	30.3927
W-9	47	-23.7778	30.3927

Individual Well Comparisons at Groupwise 5% Significance Level (0.555556% Significance Level per comparison)

0.555556% Z score is 2.57583

Mean background rank is 70.7778

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	47.9	-22.8778	33.6522
W-10	62.4444	-8.33333	34.5264
W-3	65.6	-5.17778	33.6522
W-4	67.8	-2.97778	33.6522
W-5	50.6	-20.1778	33.6522
W-6	15.3	-55.4778	33.6522
W-7	55.6	-15.1778	33.6522
W-8	15.4	-55.3778	33.6522
W-9	47	-23.7778	33.6522

ALKALINITY

Kruskal-Wallis Non-Parametric Test

Parameter: Alkalinity (calcium carbonate)

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	ND<20000	19.5
	10/27/16	ND<20000	19.5
	03/29/17	ND<20000	19.5
	03/28/18	ND<20000	19.5
	09/27/18	ND<1000	19.5
	03/25/19	ND<1000	19.5
	09/24/19	ND<20000	19.5
	03/30/20	ND<20000	19.5
	09/29/20	ND<20000	19.5

Rank Sum = 175.5
Rank Mean = 19.5

Background Rank Sum = 175.5
Background Rank Mean = 19.5

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	83000	62
	10/27/16	72000	58
	03/29/17	98000	67
	09/18/17	80000	60
	03/28/18	88000	64
	09/27/18	100000	68
	03/25/19	96000	66
	09/24/19	120000	71
	03/30/20	160000	76
	09/29/20	94000	65

Rank Sum = 657
Rank Mean = 65.7

W-10	03/30/16	57000	54
	10/27/16	110000	70
	03/29/17	21000	41
	03/28/18	ND<20000	19.5
	09/27/18	32000	48
	03/25/19	170000	81
	09/24/19	160000	77
	03/30/20	64000	57
	09/29/20	100000	69

Rank Sum = 516.5
Rank Mean = 57.3889

W-3	03/30/16	160000	78
	10/27/16	170000	82
	03/29/17	170000	83
	09/18/17	160000	79

	03/28/18	200000	86
	09/27/18	150000	75
	03/25/19	250000	89
	09/24/19	200000	87
	03/30/20	280000	92
	09/29/20	260000	90

Rank Sum = 841
Rank Mean = 84.1

W-4	03/30/16	300000	93
	10/27/16	440000	98
	03/29/17	160000	80
	09/18/17	330000	95
	03/28/18	130000	72
	09/27/18	340000	96
	03/25/19	180000	84
	09/24/19	400000	97
	03/30/20	140000	74
	09/29/20	180000	85

Rank Sum = 874
Rank Mean = 87.4

W-5	03/30/16	ND<1000	19.5
	10/27/16	20000	39
	03/29/17	ND<20000	19.5
	09/18/17	ND<20000	19.5
	03/28/18	83000	63
	09/27/18	210000	88
	03/25/19	130000	73
	09/24/19	320000	94
	03/30/20	40000	53
	09/29/20	260000	91

Rank Sum = 559.5
Rank Mean = 55.95

W-6	03/30/16	ND<1000	19.5
	10/27/16	ND<20000	19.5
	03/29/17	ND<20000	19.5
	09/18/17	ND<20000	19.5
	03/28/18	ND<20000	19.5
	09/27/18	ND<1000	19.5
	03/25/19	ND<1000	19.5
	09/24/19	ND<20000	19.5
	03/30/20	ND<20000	19.5
	09/29/20	ND<20000	19.5

Rank Sum = 195
Rank Mean = 19.5

W-7	03/30/16	ND<1000	19.5
	10/27/16	ND<20000	19.5
	03/29/17	ND<20000	19.5
	09/18/17	ND<20000	19.5
	03/28/18	ND<20000	19.5
	09/27/18	60000	55
	03/25/19	77000	59
	09/24/19	ND<20000	19.5
	03/30/20	80000	61

	09/29/20	62000	56

Rank Sum = 348
Rank Mean = 34.8

W-8	03/30/16	ND<1000	19.5
	10/27/16	ND<20000	19.5
	03/29/17	ND<20000	19.5
	09/18/17	ND<20000	19.5
	03/28/18	ND<20000	19.5
	09/27/18	ND<1000	19.5
	03/25/19	ND<1000	19.5
	09/24/19	ND<20000	19.5
	03/30/20	20000	40
	09/29/20	ND<20000	19.5

Rank Sum = 215.5
Rank Mean = 21.55

W-9	03/30/16	35000	51
	10/27/16	36000	52
	03/29/17	32000	49
	09/18/17	28000	45
	03/28/18	24000	42
	09/27/18	27000	44
	03/25/19	28000	46
	09/24/19	29000	47
	03/30/20	32000	50
	09/29/20	25000	43

Rank Sum = 469
Rank Mean = 46.9

Calculation Results:

Kruskal-Wallis H Statistic = 70.5959
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 74.9637
95% Confidence comparison value is 16.919 at 9 degrees of freedom
70.5959 > 16.919 indicating possible contamination at 5% significance level
74.9637 > 16.919 indicating possible contamination at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 19.5

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	65.7	46.2	30.3927
W-10	57.3889	37.8889	31.1822
W-3	84.1	64.6	30.3927
W-4	87.4	67.9	30.3927
W-5	55.95	36.45	30.3927
W-6	19.5	0	30.3927
W-7	34.8	15.3	30.3927
W-8	21.55	2.05	30.3927
W-9	46.9	27.4	30.3927

Individual Well Comparisons at Groupwise 5% Significance Level (0.555556% Significance Level per comparison)

0.555556% Z score is 2.57583

Mean background rank is 19.5

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	65.7	46.2	33.6522
W-10	57.3889	37.8889	34.5264
W-3	84.1	64.6	33.6522
W-4	87.4	67.9	33.6522
W-5	55.95	36.45	33.6522
W-6	19.5	0	33.6522
W-7	34.8	15.3	33.6522
W-8	21.55	2.05	33.6522
W-9	46.9	27.4	33.6522

HARDNESS

Kruskal-Wallis Non-Parametric Test

Parameter: Hardness

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	70000	28
	10/27/16	ND<1000	1.5
	03/29/17	78000	31
	03/28/18	99000	37
	09/27/18	89000	35
	03/25/19	98000	36
	09/24/19	120000	44
	03/30/20	84000	34
	09/29/20	100000	38

Rank Sum = 284.5
Rank Mean = 31.6111

Background Rank Sum = 284.5
Background Rank Mean = 31.6111

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	120000	45
	10/27/16	100000	39
	03/29/17	140000	60
	09/18/17	150000	62
	03/28/18	120000	46
	09/27/18	120000	47
	03/25/19	130000	53
	09/24/19	130000	54
	03/30/20	170000	66
	09/29/20	130000	55

Rank Sum = 527
Rank Mean = 52.7

W-10	03/30/16	140000	61
	10/27/16	180000	68
	03/29/17	78000	32
	03/28/18	79000	33
	09/27/18	70000	29
	03/25/19	190000	71
	09/24/19	210000	78
	03/30/20	200000	75
	09/29/20	280000	87

Rank Sum = 534
Rank Mean = 59.3333

W-3	03/30/16	190000	72
	10/27/16	200000	76
	03/29/17	310000	91
	09/18/17	190000	73

	03/28/18	230000	81
	09/27/18	180000	69
	03/25/19	270000	85
	09/24/19	240000	82
	03/30/20	270000	86
	09/29/20	300000	90

Rank Sum = 805
Rank Mean = 80.5

W-4	03/30/16	310000	92
	10/27/16	500000	98
	03/29/17	200000	77
	09/18/17	390000	95
	03/28/18	190000	74
	09/27/18	390000	96
	03/25/19	210000	79
	09/24/19	390000	97
	03/30/20	180000	70
	09/29/20	210000	80

Rank Sum = 858
Rank Mean = 85.8

W-5	03/30/16	38000	19
	10/27/16	23000	13
	03/29/17	ND<1000	1.5
	09/18/17	23000	14
	03/28/18	130000	56
	09/27/18	260000	84
	03/25/19	170000	67
	09/24/19	360000	94
	03/30/20	110000	41
	09/29/20	310000	93

Rank Sum = 482.5
Rank Mean = 48.25

W-6	03/30/16	26000	16
	10/27/16	22000	12
	03/29/17	24000	15
	09/18/17	27000	17
	03/28/18	17000	7
	09/27/18	35000	18
	03/25/19	16000	5
	09/24/19	18000	9
	03/30/20	52000	22
	09/29/20	60000	25

Rank Sum = 146
Rank Mean = 14.6

W-7	03/30/16	53000	23
	10/27/16	57000	24
	03/29/17	68000	27
	09/18/17	60000	26
	03/28/18	72000	30
	09/27/18	160000	65
	03/25/19	290000	89
	09/24/19	120000	48
	03/30/20	280000	88

	09/29/20	240000	83

Rank Sum = 503
Rank Mean = 50.3

W-8	03/30/16	17000	8
	10/27/16	120000	49
	03/29/17	19000	10
	09/18/17	15000	4
	03/28/18	21000	11
	09/27/18	16000	6
	03/25/19	7000	3
	09/24/19	100000	40
	03/30/20	40000	20
	09/29/20	48000	21

Rank Sum = 172
Rank Mean = 17.2

W-9	03/30/16	120000	50
	10/27/16	130000	57
	03/29/17	130000	58
	09/18/17	150000	63
	03/28/18	110000	42
	09/27/18	150000	64
	03/25/19	120000	51
	09/24/19	120000	52
	03/30/20	110000	43
	09/29/20	130000	59

Rank Sum = 539
Rank Mean = 53.9

Calculation Results:

Kruskal-Wallis H Statistic = 61.1853
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 61.1857
95% Confidence comparison value is 16.919 at 9 degrees of freedom
61.1853 > 16.919 indicating possible contamination at 5% significance level
61.1857 > 16.919 indicating possible contamination at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 31.6111

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	52.7	21.0889	30.3927
W-10	59.3333	27.7222	31.1822
W-3	80.5	48.8889	30.3927
W-4	85.8	54.1889	30.3927
W-5	48.25	16.6389	30.3927
W-6	14.6	-17.0111	30.3927
W-7	50.3	18.6889	30.3927
W-8	17.2	-14.4111	30.3927
W-9	53.9	22.2889	30.3927

Individual Well Comparisons at Groupwise 5% Significance Level (0.555556% Significance Level per comparison)

0.555556% Z score is 2.57583

Mean background rank is 31.6111

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	52.7	21.0889	33.6522
W-10	59.3333	27.7222	34.5264
W-3	80.5	48.8889	33.6522
W-4	85.8	54.1889	33.6522
W-5	48.25	16.6389	33.6522
W-6	14.6	-17.0111	33.6522
W-7	50.3	18.6889	33.6522
W-8	17.2	-14.4111	33.6522
W-9	53.9	22.2889	33.6522

TOTAL DISSOLVED SOLIDS

Kruskal-Wallis Non-Parametric Test

Parameter: Total Dissolved Solids

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	160000	21
	10/27/16	250000	46
	03/29/17	400000	83
	03/28/18	280000	59
	09/27/18	280000	60
	03/25/19	280000	61
	09/24/19	260000	50
	03/30/20	200000	33
	09/29/20	270000	52

Rank Sum = 465
Rank Mean = 51.6667

Background Rank Sum = 465
Background Rank Mean = 51.6667

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	160000	22
	10/27/16	180000	28
	03/29/17	360000	76
	09/18/17	150000	20
	03/28/18	190000	30
	09/27/18	220000	40
	03/25/19	160000	23
	09/24/19	190000	31
	03/30/20	300000	65
	09/29/20	210000	36

Rank Sum = 371
Rank Mean = 37.1

W-10	03/30/16	200000	34
	10/27/16	260000	51
	03/29/17	270000	53
	03/28/18	130000	19
	09/27/18	84000	17
	03/25/19	360000	77
	09/24/19	360000	78
	03/30/20	300000	66
	09/29/20	570000	94

Rank Sum = 489
Rank Mean = 54.3333

W-3	03/30/16	320000	73
	10/27/16	310000	68
	03/29/17	310000	69
	09/18/17	280000	62

	03/28/18	230000	43
	09/27/18	410000	85
	03/25/19	370000	79
	09/24/19	300000	67
	03/30/20	350000	75
	09/29/20	380000	81

Rank Sum = 702
Rank Mean = 70.2

W-4	03/30/16	510000	92
	10/27/16	690000	98
	03/29/17	270000	54
	09/18/17	600000	95
	03/28/18	240000	44
	09/27/18	630000	96
	03/25/19	280000	63
	09/24/19	460000	89
	03/30/20	250000	47
	09/29/20	200000	35

Rank Sum = 713
Rank Mean = 71.3

W-5	03/30/16	61000	11
	10/27/16	160000	24
	03/29/17	55000	10
	09/18/17	83000	16
	03/28/18	250000	48
	09/27/18	420000	86
	03/25/19	320000	74
	09/24/19	450000	88
	03/30/20	210000	37
	09/29/20	460000	90

Rank Sum = 484
Rank Mean = 48.4

W-6	03/30/16	50000	8
	10/27/16	160000	25
	03/29/17	64000	13
	09/18/17	ND<25000	1
	03/28/18	77000	15
	09/27/18	100000	18
	03/25/19	44000	6
	09/24/19	220000	41
	03/30/20	38000	3
	09/29/20	270000	55

Rank Sum = 185
Rank Mean = 18.5

W-7	03/30/16	160000	26
	10/27/16	310000	70
	03/29/17	210000	38
	09/18/17	190000	32
	03/28/18	250000	49
	09/27/18	430000	87
	03/25/19	510000	93
	09/24/19	400000	84
	03/30/20	490000	91

	09/29/20	630000	97

Rank Sum = 667
Rank Mean = 66.7

W-8	03/30/16	43000	5
	10/27/16	270000	56
	03/29/17	42000	4
	09/18/17	50000	9
	03/28/18	74000	14
	09/27/18	27000	2
	03/25/19	44000	7
	09/24/19	280000	64
	03/30/20	61000	12
	09/29/20	160000	27

Rank Sum = 200
Rank Mean = 20

W-9	03/30/16	210000	39
	10/27/16	310000	71
	03/29/17	370000	80
	09/18/17	310000	72
	03/28/18	220000	42
	09/27/18	240000	45
	03/25/19	270000	57
	09/24/19	270000	58
	03/30/20	180000	29
	09/29/20	380000	82

Rank Sum = 575
Rank Mean = 57.5

Calculation Results:

Kruskal-Wallis H Statistic = 40.5076
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 40.5076
95% Confidence comparison value is 16.919 at 9 degrees of freedom
40.5076 > 16.919 indicating possible contamination at 5% significance level
40.5076 > 16.919 indicating possible contamination at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 51.6667

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	37.1	-14.5667	30.3927
W-10	54.3333	2.66667	31.1822
W-3	70.2	18.5333	30.3927
W-4	71.3	19.6333	30.3927
W-5	48.4	-3.26667	30.3927
W-6	18.5	-33.1667	30.3927
W-7	66.7	15.0333	30.3927
W-8	20	-31.6667	30.3927
W-9	57.5	5.83333	30.3927

Individual Well Comparisons at Groupwise 5% Significance Level (0.555556% Significance Level per comparison)

0.555556% Z score is 2.57583

Mean background rank is 51.6667

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	37.1	-14.5667	33.6522
W-10	54.3333	2.66667	34.5264
W-3	70.2	18.5333	33.6522
W-4	71.3	19.6333	33.6522
W-5	48.4	-3.26667	33.6522
W-6	18.5	-33.1667	33.6522
W-7	66.7	15.0333	33.6522
W-8	20	-31.6667	33.6522
W-9	57.5	5.83333	33.6522

CHEMICAL OXYGEN DEMAND

Kruskal-Wallis Non-Parametric Test

Parameter: Chemical Oxygen Demand

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	ND<10000	23.5
	10/27/16	17000	68
	03/29/17	ND<10000	23.5
	03/28/18	14000	60
	09/27/18	35000	92
	03/25/19	19000	72
	09/24/19	20000	74
	03/30/20	15000	64
	09/29/20	ND<10000	23.5

Rank Sum = 500.5
Rank Mean = 55.6111

Background Rank Sum = 500.5
Background Rank Mean = 55.6111

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	ND<10000	23.5
	10/27/16	31000	89
	03/29/17	ND<10000	23.5
	09/18/17	22000	81
	03/28/18	26000	85
	09/27/18	48000	96
	03/25/19	21000	75
	09/24/19	22000	82
	03/30/20	21000	76
	09/29/20	19000	73

Rank Sum = 704
Rank Mean = 70.4

W-10	03/30/16	ND<10000	23.5
	10/27/16	ND<10000	23.5
	03/29/17	ND<10000	23.5
	03/28/18	ND<10000	23.5
	09/27/18	12000	51
	03/25/19	21000	77
	09/24/19	13000	59
	03/30/20	12000	52
	09/29/20	21000	78

Rank Sum = 411
Rank Mean = 45.6667

W-3	03/30/16	ND<10000	23.5
	10/27/16	ND<10000	23.5
	03/29/17	22000	83
	09/18/17	11000	48

	03/28/18	18000	70
	09/27/18	14000	61
	03/25/19	ND<10000	23.5
	09/24/19	11000	49
	03/30/20	17000	69
	09/29/20	21000	79

Rank Sum = 529.5
Rank Mean = 52.95

W-4	03/30/16	21000	80
	10/27/16	48000	97
	03/29/17	ND<10000	23.5
	09/18/17	35000	93
	03/28/18	12000	53
	09/27/18	31000	90
	03/25/19	14000	62
	09/24/19	26000	86
	03/30/20	15000	65
	09/29/20	16000	66

Rank Sum = 715.5
Rank Mean = 71.55

W-5	03/30/16	ND<10000	23.5
	10/27/16	ND<10000	23.5
	03/29/17	ND<10000	23.5
	09/18/17	ND<10000	23.5
	03/28/18	12000	54
	09/27/18	41000	94
	03/25/19	14000	63
	09/24/19	45000	95
	03/30/20	12000	55
	09/29/20	31000	91

Rank Sum = 546
Rank Mean = 54.6

W-6	03/30/16	ND<10000	23.5
	10/27/16	ND<10000	23.5
	03/29/17	ND<10000	23.5
	09/18/17	ND<10000	23.5
	03/28/18	ND<10000	23.5
	09/27/18	ND<10000	23.5
	03/25/19	12000	56
	09/24/19	ND<10000	23.5
	03/30/20	ND<10000	23.5
	09/29/20	ND<10000	23.5

Rank Sum = 267.5
Rank Mean = 26.75

W-7	03/30/16	ND<10000	23.5
	10/27/16	ND<10000	23.5
	03/29/17	ND<10000	23.5
	09/18/17	ND<10000	23.5
	03/28/18	ND<10000	23.5
	09/27/18	18000	71
	03/25/19	27000	87
	09/24/19	ND<10000	23.5
	03/30/20	23000	84

	09/29/20	16000	67

Rank Sum = 450
Rank Mean = 45

W-8	03/30/16	ND<10000	23.5
	10/27/16	10000	47
	03/29/17	ND<10000	23.5
	09/18/17	48000	98
	03/28/18	ND<10000	23.5
	09/27/18	29000	88
	03/25/19	ND<10000	23.5
	09/24/19	11000	50
	03/30/20	ND<10000	23.5
	09/29/20	ND<10000	23.5

Rank Sum = 424
Rank Mean = 42.4

W-9	03/30/16	ND<10000	23.5
	10/27/16	ND<10000	23.5
	03/29/17	ND<10000	23.5
	09/18/17	ND<10000	23.5
	03/28/18	ND<10000	23.5
	09/27/18	12000	57
	03/25/19	ND<10000	23.5
	09/24/19	ND<10000	23.5
	03/30/20	12000	58
	09/29/20	ND<10000	23.5

Rank Sum = 303
Rank Mean = 30.3

Calculation Results:

Kruskal-Wallis H Statistic = 24.2996
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 27.1013
95% Confidence comparison value is 16.919 at 9 degrees of freedom
24.2996 > 16.919 indicating possible contamination at 5% significance level
27.1013 > 16.919 indicating possible contamination at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 55.6111

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	70.4	14.7889	30.3927
W-10	45.6667	-9.94444	31.1822
W-3	52.95	-2.66111	30.3927
W-4	71.55	15.9389	30.3927
W-5	54.6	-1.01111	30.3927
W-6	26.75	-28.8611	30.3927
W-7	45	-10.6111	30.3927
W-8	42.4	-13.2111	30.3927
W-9	30.3	-25.3111	30.3927

Individual Well Comparisons at Groupwise 5% Significance Level (0.555556% Significance Level per comparison)

0.555556% Z score is 2.57583

Mean background rank is 55.6111

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	70.4	14.7889	33.6522
W-10	45.6667	-9.94444	34.5264
W-3	52.95	-2.66111	33.6522
W-4	71.55	15.9389	33.6522
W-5	54.6	-1.01111	33.6522
W-6	26.75	-28.8611	33.6522
W-7	45	-10.6111	33.6522
W-8	42.4	-13.2111	33.6522
W-9	30.3	-25.3111	33.6522

SULFATE

Kruskal-Wallis Non-Parametric Test

Parameter: Sulfate

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	64000	64
	10/27/16	69000	67
	03/29/17	61000	58
	03/28/18	52000	51
	09/27/18	45000	47
	03/25/19	74000	73
	09/24/19	82000	79
	03/30/20	75000	74
	09/29/20	86000	80

Rank Sum = 593
Rank Mean = 65.8889

Background Rank Sum = 593
Background Rank Mean = 65.8889

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	44000	45
	10/27/16	31000	35
	03/29/17	36000	41
	09/18/17	31000	36
	03/28/18	45000	48
	09/27/18	28000	33
	03/25/19	31000	37
	09/24/19	37000	42
	03/30/20	21000	30
	09/29/20	15000	18

Rank Sum = 365
Rank Mean = 36.5

W-10	03/30/16	73000	70
	10/27/16	68000	66
	03/29/17	49000	50
	03/28/18	61000	59
	09/27/18	35000	39
	03/25/19	42000	44
	09/24/19	93000	83
	03/30/20	180000	94
	09/29/20	210000	95

Rank Sum = 600
Rank Mean = 66.6667

W-3	03/30/16	16000	21
	10/27/16	17000	23
	03/29/17	23000	31
	09/18/17	14000	15

	03/28/18	32000	38
	09/27/18	13000	14
	03/25/19	19000	26
	09/24/19	35000	40
	03/30/20	16000	22
	09/29/20	15000	19

Rank Sum = 249
Rank Mean = 24.9

W-4	03/30/16	110000	89
	10/27/16	110000	90
	03/29/17	59000	57
	09/18/17	66000	65
	03/28/18	45000	49
	09/27/18	77000	75
	03/25/19	55000	54
	09/24/19	94000	84
	03/30/20	44000	46
	09/29/20	18000	25

Rank Sum = 634
Rank Mean = 63.4

W-5	03/30/16	20000	28
	10/27/16	ND<10000	6
	03/29/17	12000	13
	09/18/17	14000	16
	03/28/18	57000	55
	09/27/18	70000	68
	03/25/19	86000	81
	09/24/19	100000	87
	03/30/20	94000	85
	09/29/20	100000	88

Rank Sum = 527
Rank Mean = 52.7

W-6	03/30/16	ND<1000	6
	10/27/16	ND<10000	6
	03/29/17	ND<10000	6
	09/18/17	ND<10000	6
	03/28/18	ND<10000	6
	09/27/18	15000	20
	03/25/19	ND<1000	6
	09/24/19	26000	32
	03/30/20	19000	27
	09/29/20	20000	29

Rank Sum = 144
Rank Mean = 14.4

W-7	03/30/16	61000	60
	10/27/16	62000	61
	03/29/17	62000	62
	09/18/17	63000	63
	03/28/18	73000	71
	09/27/18	130000	93
	03/25/19	230000	96
	09/24/19	120000	92
	03/30/20	250000	98

	09/29/20	230000	97

Rank Sum = 793
Rank Mean = 79.3

W-8	03/30/16	17000	24
	10/27/16	110000	91
	03/29/17	11000	12
	09/18/17	ND<10000	6
	03/28/18	29000	34
	09/27/18	ND<1000	6
	03/25/19	ND<1000	6
	09/24/19	87000	82
	03/30/20	14000	17
	09/29/20	ND<10000	6

Rank Sum = 284
Rank Mean = 28.4

W-9	03/30/16	40000	43
	10/27/16	73000	72
	03/29/17	53000	52
	09/18/17	81000	77
	03/28/18	53000	53
	09/27/18	98000	86
	03/25/19	70000	69
	09/24/19	80000	76
	03/30/20	57000	56
	09/29/20	81000	78

Rank Sum = 662
Rank Mean = 66.2

Calculation Results:

Kruskal-Wallis H Statistic = 53.5401
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 53.6154
95% Confidence comparison value is 16.919 at 9 degrees of freedom
53.5401 > 16.919 indicating possible contamination at 5% significance level
53.6154 > 16.919 indicating possible contamination at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 65.8889

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	36.5	-29.3889	30.3927
W-10	66.6667	0.777778	31.1822
W-3	24.9	-40.9889	30.3927
W-4	63.4	-2.48889	30.3927
W-5	52.7	-13.1889	30.3927
W-6	14.4	-51.4889	30.3927
W-7	79.3	13.4111	30.3927
W-8	28.4	-37.4889	30.3927
W-9	66.2	0.311111	30.3927

Individual Well Comparisons at Groupwise 5% Significance Level (0.555556% Significance Level per comparison)

0.555556% Z score is 2.57583

Mean background rank is 65.8889

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	36.5	-29.3889	33.6522
W-10	66.6667	0.777778	34.5264
W-3	24.9	-40.9889	33.6522
W-4	63.4	-2.48889	33.6522
W-5	52.7	-13.1889	33.6522
W-6	14.4	-51.4889	33.6522
W-7	79.3	13.4111	33.6522
W-8	28.4	-37.4889	33.6522
W-9	66.2	0.311111	33.6522

BARIUM

Kruskal-Wallis Non-Parametric Test

Parameter: Barium, total

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	70	59
	10/27/16	640	99
	03/29/17	28	10
	09/18/17	73	66
	03/28/18	86	76
	09/27/18	75	68
	03/25/19	97	81
	09/24/19	88	78
	03/30/20	64	52
	09/29/20	45	31

Rank Sum = 620
Rank Mean = 62

Background Rank Sum = 620
Background Rank Mean = 62

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	38	18
	10/27/16	12	2
	03/29/17	46	32
	09/18/17	22	5
	03/28/18	39000	100
	09/27/18	7	1
	03/25/19	40	26
	09/24/19	38	19
	03/30/20	47	34
	09/29/20	23	6

Rank Sum = 243
Rank Mean = 24.3

W-10	03/30/16	38	20
	10/27/16	62	50
	03/29/17	23	7
	09/18/17	32	13
	03/28/18	34	14
	09/27/18	39	25
	03/25/19	75	69
	09/24/19	108	87
	03/30/20	76	71
	09/29/20	120	90

Rank Sum = 446
Rank Mean = 44.6

W-3	03/30/16	65	54
	10/27/16	65	55

	03/29/17	69	58
	09/18/17	62	51
	03/28/18	72	64
	09/27/18	64	53
	03/25/19	97	82
	09/24/19	71	62
	03/30/20	95	80
	09/29/20	87	77

Rank Sum = 636
Rank Mean = 63.6

W-4	03/30/16	59	48
	10/27/16	109	88
	03/29/17	46	33
	09/18/17	207	97
	03/28/18	53	45
	09/27/18	167	95
	03/25/19	56	46
	09/24/19	139	93
	03/30/20	48	36
	09/29/20	48	37

Rank Sum = 618
Rank Mean = 61.8

W-5	03/30/16	50	39
	10/27/16	24	8
	03/29/17	34	15
	09/18/17	21	4
	03/28/18	106	86
	09/27/18	135	92
	03/25/19	120	91
	09/24/19	139	94
	03/30/20	105	85
	09/29/20	117	89

Rank Sum = 603
Rank Mean = 60.3

W-6	03/30/16	48	38
	10/27/16	38	21
	03/29/17	42	27
	09/18/17	38	22
	03/28/18	29	11
	09/27/18	70	60
	03/25/19	31	12
	09/24/19	35	16
	03/30/20	36	17
	09/29/20	38	23

Rank Sum = 247
Rank Mean = 24.7

W-7	03/30/16	52	43
	10/27/16	50	40
	03/29/17	67	56
	09/18/17	56	47
	03/28/18	51	42
	09/27/18	70	61
	03/25/19	72	65

	09/24/19	43	29
	03/30/20	52	44
	09/29/20	42	28

Rank Sum = 455
Rank Mean = 45.5

W-8	03/30/16	43	30
	10/27/16	276	98
	03/29/17	71	63
	09/18/17	47	35
	03/28/18	60	49
	09/27/18	38	24
	03/25/19	15	3
	09/24/19	190	96
	03/30/20	50	41
	09/29/20	26	9

Rank Sum = 448
Rank Mean = 44.8

W-9	03/30/16	84	75
	10/27/16	92	79
	03/29/17	81	73
	09/18/17	97	83
	03/28/18	74	67
	09/27/18	97	84
	03/25/19	82	74
	09/24/19	75	70
	03/30/20	68	57
	09/29/20	76	72

Rank Sum = 734
Rank Mean = 73.4

Calculation Results:

Kruskal-Wallis H Statistic = 29.66
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 29.66
95% Confidence comparison value is 16.919 at 9 degrees of freedom
29.66 > 16.919 indicating possible contamination at 5% significance level
29.66 > 16.919 indicating possible contamination at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 62

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	24.3	-37.7	30.1827
W-10	44.6	-17.4	30.1827
W-3	63.6	1.6	30.1827
W-4	61.8	-0.2	30.1827
W-5	60.3	-1.7	30.1827
W-6	24.7	-37.3	30.1827
W-7	45.5	-16.5	30.1827
W-8	44.8	-17.2	30.1827
W-9	73.4	11.4	30.1827

Individual Well Comparisons at Groupwise 5% Significance Level

(0.555556% Significance Level per comparison)

0.555556% Z score is 2.57583

Mean background rank is 62

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	24.3	-37.7	33.4197
W-10	44.6	-17.4	33.4197
W-3	63.6	1.6	33.4197
W-4	61.8	-0.2	33.4197
W-5	60.3	-1.7	33.4197
W-6	24.7	-37.3	33.4197
W-7	45.5	-16.5	33.4197
W-8	44.8	-17.2	33.4197
W-9	73.4	11.4	33.4197

CALCIUM

Kruskal-Wallis Non-Parametric Test

Parameter: Calcium, total

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	12000	32
	10/27/16	9300	26
	03/29/17	9940	30
	09/18/17	10500	31
	03/28/18	16300	39
	09/27/18	14500	36
	03/25/19	14900	37
	09/24/19	12500	33
	03/30/20	13100	34
	09/29/20	9270	25

Rank Sum = 323
Rank Mean = 32.3

Background Rank Sum = 323
Background Rank Mean = 32.3

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	34000	57
	10/27/16	22600	47
	03/29/17	29600	50
	09/18/17	23700	48
	03/28/18	32700	54
	09/27/18	30300	52
	03/25/19	41300	65
	09/24/19	29800	51
	03/30/20	ND<1000	1
	09/29/20	21400	46

Rank Sum = 471
Rank Mean = 47.1

W-10	03/30/16	33000	55
	10/27/16	38600	62
	03/29/17	17200	40
	09/18/17	20900	45
	03/28/18	20600	44
	09/27/18	18400	41
	03/25/19	46200	69
	09/24/19	41700	66
	03/30/20	61000	81
	09/29/20	76600	89

Rank Sum = 592
Rank Mean = 59.2

W-3	03/30/16	67000	85
	10/27/16	64200	83

	03/29/17	59610	78
	09/18/17	60100	79
	03/28/18	74300	88
	09/27/18	65700	84
	03/25/19	88700	100
	09/24/19	68800	86
	03/30/20	81700	96
	09/29/20	79500	93

Rank Sum = 872
Rank Mean = 87.2

W-4	03/30/16	69000	87
	10/27/16	78700	91
	03/29/17	41200	64
	09/18/17	82100	97
	03/28/18	55400	77
	09/27/18	78800	92
	03/25/19	61300	82
	09/24/19	80100	95
	03/30/20	50400	75
	09/29/20	50000	74

Rank Sum = 834
Rank Mean = 83.4

W-5	03/30/16	7600	22
	10/27/16	5030	18
	03/29/17	5170	19
	09/18/17	2920	3
	03/28/18	33900	56
	09/27/18	77900	90
	03/25/19	53400	76
	09/24/19	88200	99
	03/30/20	16000	38
	09/29/20	79600	94

Rank Sum = 515
Rank Mean = 51.5

W-6	03/30/16	5500	20
	10/27/16	4870	16
	03/29/17	3920	10
	09/18/17	3890	9
	03/28/18	3380	4
	09/27/18	8190	23
	03/25/19	3830	8
	09/24/19	3780	7
	03/30/20	4250	11
	09/29/20	4990	17

Rank Sum = 125
Rank Mean = 12.5

W-7	03/30/16	9700	29
	10/27/16	8960	24
	03/29/17	9550	28
	09/18/17	9470	27
	03/28/18	13200	35
	09/27/18	46400	70
	03/25/19	86000	98

	09/24/19	20200	42
	03/30/20	60100	80
	09/29/20	47000	72

Rank Sum = 505
Rank Mean = 50.5

W-8	03/30/16	4800	15
	10/27/16	26600	49
	03/29/17	4450	12
	09/18/17	3570	6
	03/28/18	6330	21
	09/27/18	4590	13
	03/25/19	2810	2
	09/24/19	20300	43
	03/30/20	4750	14
	09/29/20	3420	5

Rank Sum = 180
Rank Mean = 18

W-9	03/30/16	41000	63
	10/27/16	44600	68
	03/29/17	36800	59
	09/18/17	41700	67
	03/28/18	37500	61
	09/27/18	49100	73
	03/25/19	46600	71
	09/24/19	34100	58
	03/30/20	32500	53
	09/29/20	37400	60

Rank Sum = 633
Rank Mean = 63.3

Calculation Results:

Kruskal-Wallis H Statistic = 65.4996
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 65.4996
95% Confidence comparison value is 16.919 at 9 degrees of freedom
65.4996 > 16.919 indicating possible contamination at 5% significance level
65.4996 > 16.919 indicating possible contamination at 5% significance level when adjusted for ties

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Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 32.3

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	47.1	14.8	30.1827
W-10	59.2	26.9	30.1827
W-3	87.2	54.9	30.1827
W-4	83.4	51.1	30.1827
W-5	51.5	19.2	30.1827
W-6	12.5	-19.8	30.1827
W-7	50.5	18.2	30.1827
W-8	18	-14.3	30.1827
W-9	63.3	31	30.1827

Individual Well Comparisons at Groupwise 5% Significance Level

(0.555556% Significance Level per comparison)

0.555556% Z score is 2.57583

Mean background rank is 32.3

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	47.1	14.8	33.4197
W-10	59.2	26.9	33.4197
W-3	87.2	54.9	33.4197
W-4	83.4	51.1	33.4197
W-5	51.5	19.2	33.4197
W-6	12.5	-19.8	33.4197
W-7	50.5	18.2	33.4197
W-8	18	-14.3	33.4197
W-9	63.3	31	33.4197

CADMIUM

Kruskal-Wallis Non-Parametric Test

Parameter: Cadmium, total

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	ND<0.5	47
	10/27/16	ND<2	47
	03/29/17	ND<2	47
	09/18/17	ND<2	47
	03/28/18	ND<2	47
	09/27/18	3	95
	03/25/19	ND<0.5	47
	09/24/19	ND<4	47
	03/30/20	ND<2	47
	09/29/20	ND<2	47

Rank Sum = 518
Rank Mean = 51.8

Background Rank Sum = 518
Background Rank Mean = 51.8

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	ND<2	47
	10/27/16	ND<2	47
	03/29/17	ND<2	47
	09/18/17	ND<2	47
	03/28/18	ND<2	47
	09/27/18	ND<2	47
	03/25/19	ND<0.5	47
	09/24/19	ND<4	47
	03/30/20	ND<0.5	47
	09/29/20	ND<2	47

Rank Sum = 470
Rank Mean = 47

W-10	03/30/16	ND<2	47
	10/27/16	ND<2	47
	03/29/17	ND<2	47
	09/18/17	ND<2	47
	03/28/18	ND<2	47
	09/27/18	ND<0.5	47
	03/25/19	ND<0.5	47
	09/24/19	ND<4	47
	03/30/20	ND<2	47
	09/29/20	ND<2	47

Rank Sum = 470
Rank Mean = 47

W-3	03/30/16	3	96
	10/27/16	ND<2	47

	03/29/17	ND<2	47
	09/18/17	ND<2	47
	03/28/18	ND<2	47
	09/27/18	ND<0.5	47
	03/25/19	ND<0.5	47
	09/24/19	ND<4	47
	03/30/20	ND<2	47
	09/29/20	ND<2	47

Rank Sum = 519
Rank Mean = 51.9

W-4	03/30/16	ND<0.5	47
	10/27/16	ND<2	47
	03/29/17	ND<2	47
	09/18/17	ND<2	47
	03/28/18	ND<2	47
	09/27/18	ND<0.5	47
	03/25/19	ND<0.5	47
	09/24/19	ND<4	47
	03/30/20	ND<2	47
	09/29/20	ND<2	47

Rank Sum = 470
Rank Mean = 47

W-5	03/30/16	ND<0.5	47
	10/27/16	ND<2	47
	03/29/17	ND<2	47
	09/18/17	ND<2	47
	03/28/18	ND<2	47
	09/27/18	ND<0.5	47
	03/25/19	ND<0.5	47
	09/24/19	ND<4	47
	03/30/20	ND<2	47
	09/29/20	ND<2	47

Rank Sum = 470
Rank Mean = 47

W-6	03/30/16	ND<0.5	47
	10/27/16	ND<2	47
	03/29/17	ND<2	47
	09/18/17	ND<2	47
	03/28/18	ND<2	47
	09/27/18	5	98
	03/25/19	ND<0.5	47
	09/24/19	ND<4	47
	03/30/20	ND<2	47
	09/29/20	ND<2	47

Rank Sum = 521
Rank Mean = 52.1

W-7	03/30/16	ND<0.5	47
	10/27/16	ND<2	47
	03/29/17	ND<2	47
	09/18/17	ND<2	47
	03/28/18	ND<2	47
	09/27/18	ND<0.5	47
	03/25/19	ND<0.5	47

	09/24/19	ND<4	47
	03/30/20	ND<2	47
	09/29/20	ND<2	47

Rank Sum = 470
Rank Mean = 47

W-8	03/30/16	ND<0.5	47
	10/27/16	4	97
	03/29/17	2	94
	09/18/17	ND<2	47
	03/28/18	6	100
	09/27/18	ND<0.5	47
	03/25/19	ND<0.5	47
	09/24/19	5	99
	03/30/20	ND<2	47
	09/29/20	ND<2	47

Rank Sum = 672
Rank Mean = 67.2

W-9	03/30/16	ND<0.5	47
	10/27/16	ND<2	47
	03/29/17	ND<2	47
	09/18/17	ND<2	47
	03/28/18	ND<2	47
	09/27/18	ND<0.5	47
	03/25/19	ND<0.5	47
	09/24/19	ND<4	47
	03/30/20	ND<2	47
	09/29/20	ND<2	47

Rank Sum = 470
Rank Mean = 47

Calculation Results:

Kruskal-Wallis H Statistic = 4.26059
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 21.776
95% Confidence comparison value is 16.919 at 9 degrees of freedom
4.26059 < 16.919 indicating no contamination at 5% significance level
21.776 > 16.919 indicating possible contamination at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 51.8

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	47	-4.8	30.1827
W-10	47	-4.8	30.1827
W-3	51.9	0.1	30.1827
W-4	47	-4.8	30.1827
W-5	47	-4.8	30.1827
W-6	52.1	0.3	30.1827
W-7	47	-4.8	30.1827
W-8	67.2	15.4	30.1827
W-9	47	-4.8	30.1827

Individual Well Comparisons at Groupwise 5% Significance Level

(0.555556% Significance Level per comparison)

0.555556% Z score is 2.57583

Mean background rank is 51.8

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	47	-4.8	33.4197
W-10	47	-4.8	33.4197
W-3	51.9	0.1	33.4197
W-4	47	-4.8	33.4197
W-5	47	-4.8	33.4197
W-6	52.1	0.3	33.4197
W-7	47	-4.8	33.4197
W-8	67.2	15.4	33.4197
W-9	47	-4.8	33.4197

MAGNESIUM

Kruskal-Wallis Non-Parametric Test

Parameter: Magnesium, total

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	11000	55
	10/27/16	10100	51
	03/29/17	10600	52
	09/18/17	11100	56
	03/28/18	14700	75
	09/27/18	13400	68
	03/25/19	15500	79
	09/24/19	13100	67
	03/30/20	11900	64
	09/29/20	9620	50

Rank Sum = 617
Rank Mean = 61.7

Background Rank Sum = 617
Background Rank Mean = 61.7

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	12000	65
	10/27/16	10900	53
	03/29/17	10900	54
	09/18/17	11500	60
	03/28/18	11700	61
	09/27/18	11700	62
	03/25/19	12500	66
	09/24/19	13700	70
	03/30/20	ND<1000	1
	09/29/20	11200	57

Rank Sum = 549
Rank Mean = 54.9

W-10	03/30/16	14000	71
	10/27/16	19500	86
	03/29/17	6300	40
	09/18/17	6340	41
	03/28/18	7140	44
	09/27/18	5810	34
	03/25/19	25500	91
	09/24/19	27300	93
	03/30/20	15300	77
	09/29/20	17800	84

Rank Sum = 661
Rank Mean = 66.1

W-3	03/30/16	5600	33
	10/27/16	6230	39

	03/29/17	5950	37
	09/18/17	6410	42
	03/28/18	11800	63
	09/27/18	4880	28
	03/25/19	18100	85
	09/24/19	7020	43
	03/30/20	17400	83
	09/29/20	17300	82

Rank Sum = 535
Rank Mean = 53.5

W-4	03/30/16	33000	96
	10/27/16	57200	100
	03/29/17	16700	80
	09/18/17	35500	97
	03/28/18	15300	78
	09/27/18	48300	99
	03/25/19	20000	87
	09/24/19	47100	98
	03/30/20	14800	76
	09/29/20	14300	72

Rank Sum = 883
Rank Mean = 88.3

W-5	03/30/16	4400	24
	10/27/16	2200	11
	03/29/17	2790	20
	09/18/17	1140	8
	03/28/18	13500	69
	09/27/18	21600	89
	03/25/19	16800	81
	09/24/19	25200	90
	03/30/20	11400	59
	09/29/20	21400	88

Rank Sum = 539
Rank Mean = 53.9

W-6	03/30/16	3700	21
	10/27/16	2350	13
	03/29/17	2630	18
	09/18/17	2760	19
	03/28/18	2330	12
	09/27/18	4280	23
	03/25/19	2430	16
	09/24/19	2350	14
	03/30/20	2560	17
	09/29/20	2360	15

Rank Sum = 168
Rank Mean = 16.8

W-7	03/30/16	8000	46
	10/27/16	7690	45
	03/29/17	8970	49
	09/18/17	8870	48
	03/28/18	11200	58
	09/27/18	14500	73
	03/25/19	26500	92

	09/24/19	14600	74
	03/30/20	30200	95
	09/29/20	28000	94

Rank Sum = 674
Rank Mean = 67.4

W-8	03/30/16	1100	7
	10/27/16	8080	47
	03/29/17	1050	5
	09/18/17	974	4
	03/28/18	2040	10
	09/27/18	1090	6
	03/25/19	521	2
	09/24/19	6040	38
	03/30/20	1180	9
	09/29/20	868	3

Rank Sum = 131
Rank Mean = 13.1

W-9	03/30/16	5200	31
	10/27/16	5870	36
	03/29/17	4660	27
	09/18/17	5520	32
	03/28/18	5010	30
	09/27/18	5860	35
	03/25/19	4880	29
	09/24/19	4440	25
	03/30/20	3980	22
	09/29/20	4520	26

Rank Sum = 293
Rank Mean = 29.3

Calculation Results:

Kruskal-Wallis H Statistic = 60.6779
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 60.6779
95% Confidence comparison value is 16.919 at 9 degrees of freedom
60.6779 > 16.919 indicating possible contamination at 5% significance level
60.6779 > 16.919 indicating possible contamination at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 61.7

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	54.9	-6.8	30.1827
W-10	66.1	4.4	30.1827
W-3	53.5	-8.2	30.1827
W-4	88.3	26.6	30.1827
W-5	53.9	-7.8	30.1827
W-6	16.8	-44.9	30.1827
W-7	67.4	5.7	30.1827
W-8	13.1	-48.6	30.1827
W-9	29.3	-32.4	30.1827

Individual Well Comparisons at Groupwise 5% Significance Level

(0.555556% Significance Level per comparison)

0.555556% Z score is 2.57583

Mean background rank is 61.7

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	54.9	-6.8	33.4197
W-10	66.1	4.4	33.4197
W-3	53.5	-8.2	33.4197
W-4	88.3	26.6	33.4197
W-5	53.9	-7.8	33.4197
W-6	16.8	-44.9	33.4197
W-7	67.4	5.7	33.4197
W-8	13.1	-48.6	33.4197
W-9	29.3	-32.4	33.4197

MANGANESE

Kruskal-Wallis Non-Parametric Test

Parameter: Manganese, total

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	0.07	6
	10/27/16	90	49
	03/29/17	102	50
	09/18/17	134	53
	03/28/18	135	54
	09/27/18	170	61
	03/25/19	136	56
	09/24/19	207	66
	03/30/20	154	60
	09/29/20	145	58

Rank Sum = 513
Rank Mean = 51.3

Background Rank Sum = 513
Background Rank Mean = 51.3

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	0.014	5
	10/27/16	148	59
	03/29/17	13	25
	09/18/17	33	39
	03/28/18	17	33
	09/27/18	30	38
	03/25/19	52	41
	09/24/19	135	55
	03/30/20	ND<0	1.5
	09/29/20	ND<2	1.5

Rank Sum = 298
Rank Mean = 29.8

W-10	03/30/16	0.076	7
	10/27/16	59	42
	03/29/17	298	72
	09/18/17	254	70
	03/28/18	231	68
	09/27/18	40	40
	03/25/19	203	65
	09/24/19	933	81
	03/30/20	69	44
	09/29/20	2.75	13

Rank Sum = 502
Rank Mean = 50.2

W-3	03/30/16	1.2	11
	10/27/16	1130	82

	03/29/17	1370	84
	09/18/17	1370	85
	03/28/18	2270	92
	09/27/18	1330	83
	03/25/19	3280	94
	09/24/19	1520	89
	03/30/20	3	15
	09/29/20	3140	93

Rank Sum = 728
Rank Mean = 72.8

W-4	03/30/16	2.6	12
	10/27/16	6470	100
	03/29/17	6240	99
	09/18/17	1560	90
	03/28/18	8	17
	09/27/18	2.85	14
	03/25/19	139	57
	09/24/19	3870	97
	03/30/20	3	16
	09/29/20	211	67

Rank Sum = 569
Rank Mean = 56.9

W-5	03/30/16	0.119	9
	10/27/16	393	76
	03/29/17	88	47
	09/18/17	330	73
	03/28/18	176	62
	09/27/18	1390	87
	03/25/19	1380	86
	09/24/19	3340	95
	03/30/20	443	78
	09/29/20	1660	91

Rank Sum = 704
Rank Mean = 70.4

W-6	03/30/16	0.013	4
	10/27/16	12	23
	03/29/17	11	21
	09/18/17	10	19
	03/28/18	8	18
	09/27/18	20	35
	03/25/19	10	20
	09/24/19	15	31
	03/30/20	11	22
	09/29/20	18	34

Rank Sum = 227
Rank Mean = 22.7

W-7	03/30/16	0.078	8
	10/27/16	87	46
	03/29/17	107	51
	09/18/17	108	52
	03/28/18	88	48
	09/27/18	60	43
	03/25/19	746	80

	09/24/19	199	64
	03/30/20	176	63
	09/29/20	234	69

Rank Sum = 524
Rank Mean = 52.4

W-8	03/30/16	0.482	10
	10/27/16	3370	96
	03/29/17	5790	98
	09/18/17	395	77
	03/28/18	487	79
	09/27/18	340	74
	03/25/19	72	45
	09/24/19	1480	88
	03/30/20	355	75
	09/29/20	293	71

Rank Sum = 713
Rank Mean = 71.3

W-9	03/30/16	0.012	3
	10/27/16	21	37
	03/29/17	14	27
	09/18/17	16	32
	03/28/18	13	26
	09/27/18	20	36
	03/25/19	14	28
	09/24/19	14	29
	03/30/20	12	24
	09/29/20	14	30

Rank Sum = 272
Rank Mean = 27.2

Calculation Results:

Kruskal-Wallis H Statistic = 37.0154
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 37.0156
95% Confidence comparison value is 16.919 at 9 degrees of freedom
37.0154 > 16.919 indicating possible contamination at 5% significance level
37.0156 > 16.919 indicating possible contamination at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 51.3

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	29.8	-21.5	30.1827
W-10	50.2	-1.1	30.1827
W-3	72.8	21.5	30.1827
W-4	56.9	5.6	30.1827
W-5	70.4	19.1	30.1827
W-6	22.7	-28.6	30.1827
W-7	52.4	1.1	30.1827
W-8	71.3	20	30.1827
W-9	27.2	-24.1	30.1827

Individual Well Comparisons at Groupwise 5% Significance Level

(0.555556% Significance Level per comparison)

0.555556% Z score is 2.57583

Mean background rank is 51.3

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	29.8	-21.5	33.4197
W-10	50.2	-1.1	33.4197
W-3	72.8	21.5	33.4197
W-4	56.9	5.6	33.4197
W-5	70.4	19.1	33.4197
W-6	22.7	-28.6	33.4197
W-7	52.4	1.1	33.4197
W-8	71.3	20	33.4197
W-9	27.2	-24.1	33.4197

MERCURY

Kruskal-Wallis Non-Parametric Test

Parameter: Mercury

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	ND<0.5	48.5
	10/27/16	ND<0.5	48.5
	03/29/17	ND<0.5	48.5
	09/18/17	ND<0.5	48.5
	03/28/18	ND<0.5	48.5
	09/27/18	ND<0.5	48.5
	03/25/19	ND<0.5	48.5
	09/24/19	ND<0.5	48.5
	03/30/20	ND<0.5	48.5
	09/29/20	ND<0.5	48.5

Rank Sum = 485
Rank Mean = 48.5

Background Rank Sum = 485
Background Rank Mean = 48.5

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	ND<0.5	48.5
	10/27/16	ND<0.5	48.5
	03/29/17	ND<0.5	48.5
	09/18/17	ND<0.5	48.5
	03/28/18	ND<0.5	48.5
	09/27/18	ND<0.5	48.5
	03/25/19	ND<0.5	48.5
	09/24/19	ND<0.5	48.5
	03/30/20	ND<0.5	48.5
	09/29/20	ND<0.5	48.5

Rank Sum = 485
Rank Mean = 48.5

W-10	03/30/16	ND<0.5	48.5
	10/27/16	ND<0.5	48.5
	03/29/17	ND<0.5	48.5
	09/18/17	ND<0.5	48.5
	03/28/18	ND<0.5	48.5
	09/27/18	ND<0.5	48.5
	03/25/19	ND<0.5	48.5
	09/24/19	ND<0.5	48.5
	03/30/20	ND<0.5	48.5
	09/29/20	ND<0.5	48.5

Rank Sum = 485
Rank Mean = 48.5

W-3	03/30/16	ND<0.5	48.5
	10/27/16	ND<0.5	48.5

	03/29/17	ND<0.5	48.5
	09/18/17	ND<0.5	48.5
	03/28/18	ND<0.5	48.5
	09/27/18	ND<0.5	48.5
	03/25/19	ND<0.5	48.5
	09/24/19	ND<0.5	48.5
	03/30/20	ND<0.5	48.5
	09/29/20	ND<0.5	48.5

Rank Sum = 485
Rank Mean = 48.5

W-4	03/30/16	ND<0.5	48.5
	10/27/16	ND<0.5	48.5
	03/29/17	ND<0.5	48.5
	09/18/17	ND<0.5	48.5
	03/28/18	ND<0.5	48.5
	09/27/18	ND<0.5	48.5
	03/25/19	ND<0.5	48.5
	09/24/19	ND<0.5	48.5
	03/30/20	ND<0.5	48.5
	09/29/20	ND<0.5	48.5

Rank Sum = 485
Rank Mean = 48.5

W-5	03/30/16	ND<0.5	48.5
	10/27/16	ND<0.5	48.5
	03/29/17	ND<0.5	48.5
	09/18/17	ND<0.5	48.5
	03/28/18	ND<0.5	48.5
	09/27/18	ND<0.5	48.5
	03/25/19	ND<0.5	48.5
	09/24/19	ND<0.5	48.5
	03/30/20	ND<0.5	48.5
	09/29/20	ND<0.5	48.5

Rank Sum = 485
Rank Mean = 48.5

W-6	03/30/16	ND<0.5	48.5
	10/27/16	ND<0.5	48.5
	03/29/17	ND<0.5	48.5
	09/18/17	ND<0.5	48.5
	03/28/18	ND<0.5	48.5
	09/27/18	ND<0.5	48.5
	03/25/19	ND<0.5	48.5
	09/24/19	ND<0.5	48.5
	03/30/20	ND<0.5	48.5
	09/29/20	ND<0.5	48.5

Rank Sum = 485
Rank Mean = 48.5

W-7	03/30/16	ND<0.5	48.5
	10/27/16	ND<0.5	48.5
	03/29/17	ND<0.5	48.5
	09/18/17	ND<0.5	48.5
	03/28/18	ND<0.5	48.5
	09/27/18	ND<0.5	48.5
	03/25/19	ND<0.5	48.5

	09/24/19	ND<0.5	48.5
	03/30/20	ND<0.5	48.5
	09/29/20	ND<0.5	48.5

Rank Sum = 485
Rank Mean = 48.5

W-8	03/30/16	ND<0.5	48.5
	10/27/16	ND<0.5	48.5
	03/29/17	ND<0.5	48.5
	09/18/17	ND<0.5	48.5
	03/28/18	ND<0.5	48.5
	09/27/18	ND<0.5	48.5
	03/25/19	ND<0.5	48.5
	09/24/19	ND<0.5	48.5
	03/30/20	ND<0.5	48.5
	09/29/20	ND<0.5	48.5

Rank Sum = 485
Rank Mean = 48.5

W-9	03/30/16	ND<0.5	48.5
	10/27/16	ND<0.5	48.5
	03/29/17	ND<0.5	48.5
	09/18/17	2.1	100
	03/28/18	ND<0.5	48.5
	09/27/18	0.6	97
	03/25/19	ND<0.5	48.5
	09/24/19	0.7	98
	03/30/20	ND<0.5	48.5
	09/29/20	1.9	99

Rank Sum = 685
Rank Mean = 68.5

Calculation Results:

Kruskal-Wallis H Statistic = 4.27723
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 37.1057
95% Confidence comparison value is 16.919 at 9 degrees of freedom
4.27723 < 16.919 indicating no contamination at 5% significance level
37.1057 > 16.919 indicating possible contamination at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 48.5

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	48.5	0	30.1827
W-10	48.5	0	30.1827
W-3	48.5	0	30.1827
W-4	48.5	0	30.1827
W-5	48.5	0	30.1827
W-6	48.5	0	30.1827
W-7	48.5	0	30.1827
W-8	48.5	0	30.1827
W-9	68.5	20	30.1827

Individual Well Comparisons at Groupwise 5% Significance Level

(0.555556% Significance Level per comparison)

0.555556% Z score is 2.57583

Mean background rank is 48.5

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	48.5	0	33.4197
W-10	48.5	0	33.4197
W-3	48.5	0	33.4197
W-4	48.5	0	33.4197
W-5	48.5	0	33.4197
W-6	48.5	0	33.4197
W-7	48.5	0	33.4197
W-8	48.5	0	33.4197
W-9	68.5	20	33.4197

POTASSIUM

Kruskal-Wallis Non-Parametric Test

Parameter: Potassium, total

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	2000	39
	10/27/16	2570	47
	03/29/17	2160	42
	09/18/17	2610	48
	03/28/18	3030	55
	09/27/18	2230	44
	03/25/19	2130	41
	09/24/19	2300	46
	03/30/20	1840	37
	09/29/20	1820	36

Rank Sum = 435
Rank Mean = 43.5

Background Rank Sum = 435
Background Rank Mean = 43.5

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	5200	87
	10/27/16	4570	81
	03/29/17	4930	85
	09/18/17	4840	84
	03/28/18	5370	90
	09/27/18	4470	80
	03/25/19	4950	86
	09/24/19	5330	89
	03/30/20	ND<5000	1
	09/29/20	4040	75

Rank Sum = 758
Rank Mean = 75.8

W-10	03/30/16	2700	49
	10/27/16	6980	94
	03/29/17	1640	34
	09/18/17	2830	51
	03/28/18	1620	33
	09/27/18	2080	40
	03/25/19	3300	60
	09/24/19	3470	66
	03/30/20	219000	100
	09/29/20	3760	68

Rank Sum = 595
Rank Mean = 59.5

W-3	03/30/16	4000	74
	10/27/16	4780	83

	03/29/17	3780	70
	09/18/17	4140	76
	03/28/18	6000	92
	09/27/18	2970	54
	03/25/19	6260	93
	09/24/19	3560	67
	03/30/20	5530	91
	09/29/20	5250	88

Rank Sum = 788
Rank Mean = 78.8

W-4	03/30/16	11000	95
	10/27/16	21900	98
	03/29/17	4190	77
	09/18/17	12600	96
	03/28/18	3190	58
	09/27/18	20800	97
	03/25/19	3360	63
	09/24/19	24600	99
	03/30/20	2750	50
	09/29/20	2850	52

Rank Sum = 785
Rank Mean = 78.5

W-5	03/30/16	1500	31
	10/27/16	2160	43
	03/29/17	490	10
	09/18/17	477	9
	03/28/18	3300	61
	09/27/18	4250	78
	03/25/19	2850	53
	09/24/19	4770	82
	03/30/20	2250	45
	09/29/20	4300	79

Rank Sum = 491
Rank Mean = 49.1

W-6	03/30/16	1500	32
	10/27/16	1340	30
	03/29/17	1220	25
	09/18/17	1330	29
	03/28/18	1190	24
	09/27/18	1680	35
	03/25/19	1090	22
	09/24/19	1300	28
	03/30/20	1280	26
	09/29/20	1290	27

Rank Sum = 278
Rank Mean = 27.8

W-7	03/30/16	210	4
	10/27/16	510	12
	03/29/17	200	3
	09/18/17	272	5
	03/28/18	320	6
	09/27/18	940	20
	03/25/19	824	19

	09/24/19	408	7
	03/30/20	443	8
	09/29/20	1080	21

Rank Sum = 105
Rank Mean = 10.5

W-8	03/30/16	610	14
	10/27/16	1990	38
	03/29/17	720	16
	09/18/17	685	15
	03/28/18	720	17
	09/27/18	780	18
	03/25/19	186	2
	09/24/19	1120	23
	03/30/20	506	11
	09/29/20	569	13

Rank Sum = 167
Rank Mean = 16.7

W-9	03/30/16	3400	65
	10/27/16	3940	73
	03/29/17	3280	59
	09/18/17	3930	72
	03/28/18	3760	69
	09/27/18	3830	71
	03/25/19	3180	57
	09/24/19	3310	62
	03/30/20	3120	56
	09/29/20	3360	64

Rank Sum = 648
Rank Mean = 64.8

Calculation Results:

Kruskal-Wallis H Statistic = 69.1385
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 69.1385
95% Confidence comparison value is 16.919 at 9 degrees of freedom
69.1385 > 16.919 indicating possible contamination at 5% significance level
69.1385 > 16.919 indicating possible contamination at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 43.5

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	75.8	32.3	30.1827
W-10	59.5	16	30.1827
W-3	78.8	35.3	30.1827
W-4	78.5	35	30.1827
W-5	49.1	5.6	30.1827
W-6	27.8	-15.7	30.1827
W-7	10.5	-33	30.1827
W-8	16.7	-26.8	30.1827
W-9	64.8	21.3	30.1827

Individual Well Comparisons at Groupwise 5% Significance Level

(0.555556% Significance Level per comparison)

0.555556% Z score is 2.57583

Mean background rank is 43.5

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	75.8	32.3	33.4197
W-10	59.5	16	33.4197
W-3	78.8	35.3	33.4197
W-4	78.5	35	33.4197
W-5	49.1	5.6	33.4197
W-6	27.8	-15.7	33.4197
W-7	10.5	-33	33.4197
W-8	16.7	-26.8	33.4197
W-9	64.8	21.3	33.4197

SODIUM

Kruskal-Wallis Non-Parametric Test

Parameter: Sodium

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	42000	86
	10/27/16	39100	82
	03/29/17	42800	87
	09/18/17	41700	84
	03/28/18	47700	91
	09/27/18	44000	88
	03/25/19	54700	98
	09/24/19	51900	95
	03/30/20	44000	89
	09/29/20	45400	90

Rank Sum = 890
Rank Mean = 89

Background Rank Sum = 890
Background Rank Mean = 89

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	19000	66
	10/27/16	17000	56
	03/29/17	17100	57
	09/18/17	18300	61
	03/28/18	18300	62
	09/27/18	18600	64
	03/25/19	18900	65
	09/24/19	22200	69
	03/30/20	ND<5	1
	09/29/20	18000	60

Rank Sum = 561
Rank Mean = 56.1

W-10	03/30/16	12000	38
	10/27/16	25800	73
	03/29/17	5140	20
	09/18/17	7330	26
	03/28/18	4890	17
	09/27/18	3830	13
	03/25/19	54700	99
	09/24/19	33000	79
	03/30/20	23400	71
	09/29/20	41900	85

Rank Sum = 521
Rank Mean = 52.1

W-3	03/30/16	14000	47
	10/27/16	15100	50

	03/29/17	13300	43
	09/18/17	13600	45
	03/28/18	19200	68
	09/27/18	11600	35
	03/25/19	23000	70
	09/24/19	11900	37
	03/30/20	18500	63
	09/29/20	17600	58

Rank Sum = 516
Rank Mean = 51.6

W-4	03/30/16	27000	75
	10/27/16	49700	93
	03/29/17	11600	36
	09/18/17	29200	76
	03/28/18	6110	23
	09/27/18	31300	78
	03/25/19	8520	28
	09/24/19	33300	80
	03/30/20	4890	18
	09/29/20	4140	14

Rank Sum = 521
Rank Mean = 52.1

W-5	03/30/16	6400	24
	10/27/16	1530	11
	03/29/17	2860	12
	09/18/17	643	2
	03/28/18	30600	77
	09/27/18	52800	97
	03/25/19	37800	81
	09/24/19	59000	100
	03/30/20	16800	55
	09/29/20	41600	83

Rank Sum = 542
Rank Mean = 54.2

W-6	03/30/16	5200	21
	10/27/16	5010	19
	03/29/17	4340	15
	09/18/17	4760	16
	03/28/18	5410	22
	09/27/18	9770	32
	03/25/19	9130	31
	09/24/19	8830	30
	03/30/20	8443	27
	09/29/20	10100	33

Rank Sum = 246
Rank Mean = 24.6

W-7	03/30/16	16000	53
	10/27/16	15200	51
	03/29/17	15700	52
	09/18/17	17900	59
	03/28/18	19000	67
	09/27/18	26200	74
	03/25/19	50500	94

	09/24/19	25200	72
	03/30/20	52200	96
	09/29/20	48500	92

Rank Sum = 710
Rank Mean = 71

W-8	03/30/16	1000	5
	10/27/16	8610	29
	03/29/17	860	4
	09/18/17	1060	6
	03/28/18	1280	9
	09/27/18	1440	10
	03/25/19	785	3
	09/24/19	7170	25
	03/30/20	1090	7
	09/29/20	1150	8

Rank Sum = 106
Rank Mean = 10.6

W-9	03/30/16	14000	48
	10/27/16	13600	46
	03/29/17	12100	39
	09/18/17	13400	44
	03/28/18	13000	41
	09/27/18	16100	54
	03/25/19	14300	49
	09/24/19	12900	40
	03/30/20	11400	34
	09/29/20	13000	42

Rank Sum = 437
Rank Mean = 43.7

Calculation Results:

Kruskal-Wallis H Statistic = 50.6488
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 50.6488
95% Confidence comparison value is 16.919 at 9 degrees of freedom
50.6488 > 16.919 indicating possible contamination at 5% significance level
50.6488 > 16.919 indicating possible contamination at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 89

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	56.1	-32.9	30.1827
W-10	52.1	-36.9	30.1827
W-3	51.6	-37.4	30.1827
W-4	52.1	-36.9	30.1827
W-5	54.2	-34.8	30.1827
W-6	24.6	-64.4	30.1827
W-7	71	-18	30.1827
W-8	10.6	-78.4	30.1827
W-9	43.7	-45.3	30.1827

Individual Well Comparisons at Groupwise 5% Significance Level

(0.555556% Significance Level per comparison)

0.555556% Z score is 2.57583

Mean background rank is 89

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	56.1	-32.9	33.4197
W-10	52.1	-36.9	33.4197
W-3	51.6	-37.4	33.4197
W-4	52.1	-36.9	33.4197
W-5	54.2	-34.8	33.4197
W-6	24.6	-64.4	33.4197
W-7	71	-18	33.4197
W-8	10.6	-78.4	33.4197
W-9	43.7	-45.3	33.4197

ZINC

Kruskal-Wallis Non-Parametric Test

Parameter: Zinc, total

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	ND<10	29
	10/27/16	ND<20	29
	03/29/17	ND<20	29
	09/18/17	ND<20	29
	03/28/18	25	72
	09/27/18	28	75
	03/25/19	31	79
	09/24/19	36	83
	03/30/20	ND<20	29
	09/29/20	ND<20	29

Rank Sum = 483
Rank Mean = 48.3

Background Rank Sum = 483
Background Rank Mean = 48.3

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	ND<20	29
	10/27/16	ND<20	29
	03/29/17	ND<20	29
	09/18/17	ND<20	29
	03/28/18	ND<20	29
	09/27/18	ND<20	29
	03/25/19	ND<10	29
	09/24/19	21	64
	03/30/20	ND<10	29
	09/29/20	ND<20	29

Rank Sum = 325
Rank Mean = 32.5

W-10	03/30/16	ND<20	29
	10/27/16	ND<20	29
	03/29/17	ND<20	29
	09/18/17	ND<20	29
	03/28/18	ND<20	29
	09/27/18	ND<10	29
	03/25/19	ND<10	29
	09/24/19	18	61
	03/30/20	ND<20	29
	09/29/20	ND<20	29

Rank Sum = 322
Rank Mean = 32.2

W-3	03/30/16	44	88
	10/27/16	32	81

	03/29/17	ND<20	29
	09/18/17	ND<20	29
	03/28/18	ND<20	29
	09/27/18	ND<10	29
	03/25/19	25	73
	09/24/19	12	58
	03/30/20	ND<20	29
	09/29/20	ND<20	29

Rank Sum = 474
Rank Mean = 47.4

W-4	03/30/16	32	82
	10/27/16	24	70
	03/29/17	ND<20	29
	09/18/17	ND<20	29
	03/28/18	ND<20	29
	09/27/18	ND<10	29
	03/25/19	40	86
	09/24/19	16	59
	03/30/20	ND<20	29
	09/29/20	ND<20	29

Rank Sum = 471
Rank Mean = 47.1

W-5	03/30/16	ND<10	29
	10/27/16	23	68
	03/29/17	ND<20	29
	09/18/17	ND<20	29
	03/28/18	24	71
	09/27/18	ND<10	29
	03/25/19	ND<10	29
	09/24/19	17	60
	03/30/20	22	65
	09/29/20	ND<20	29

Rank Sum = 438
Rank Mean = 43.8

W-6	03/30/16	30	78
	10/27/16	26	74
	03/29/17	ND<20	29
	09/18/17	ND<20	29
	03/28/18	ND<20	29
	09/27/18	38	84
	03/25/19	ND<10	29
	09/24/19	31	80
	03/30/20	ND<20	29
	09/29/20	22	66

Rank Sum = 527
Rank Mean = 52.7

W-7	03/30/16	49	90
	10/27/16	51	91
	03/29/17	58	93
	09/18/17	60	94
	03/28/18	46	89
	09/27/18	41	87
	03/25/19	56	92

	09/24/19	77	96
	03/30/20	81	97
	09/29/20	105	99

Rank Sum = 928
Rank Mean = 92.8

W-8	03/30/16	22	67
	10/27/16	91	98
	03/29/17	38	85
	09/18/17	28	76
	03/28/18	72	95
	09/27/18	23	69
	03/25/19	ND<10	29
	09/24/19	83000	100
	03/30/20	28	77
	09/29/20	ND<20	29

Rank Sum = 725
Rank Mean = 72.5

W-9	03/30/16	ND<10	29
	10/27/16	ND<20	29
	03/29/17	ND<20	29
	09/18/17	ND<20	29
	03/28/18	ND<20	29
	09/27/18	20	63
	03/25/19	ND<10	29
	09/24/19	19	62
	03/30/20	ND<20	29
	09/29/20	ND<20	29

Rank Sum = 357
Rank Mean = 35.7

Calculation Results:

Kruskal-Wallis H Statistic = 38.3401
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 47.052
95% Confidence comparison value is 16.919 at 9 degrees of freedom
38.3401 > 16.919 indicating possible contamination at 5% significance level
47.052 > 16.919 indicating possible contamination at 5% significance level when adjusted for ties

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Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 48.3

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	32.5	-15.8	30.1827
W-10	32.2	-16.1	30.1827
W-3	47.4	-0.9	30.1827
W-4	47.1	-1.2	30.1827
W-5	43.8	-4.5	30.1827
W-6	52.7	4.4	30.1827
W-7	92.8	44.5	30.1827
W-8	72.5	24.2	30.1827
W-9	35.7	-12.6	30.1827

Individual Well Comparisons at Groupwise 5% Significance Level

(0.555556% Significance Level per comparison)

0.555556% Z score is 2.57583

Mean background rank is 48.3

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	32.5	-15.8	33.4197
W-10	32.2	-16.1	33.4197
W-3	47.4	-0.9	33.4197
W-4	47.1	-1.2	33.4197
W-5	43.8	-4.5	33.4197
W-6	52.7	4.4	33.4197
W-7	92.8	44.5	33.4197
W-8	72.5	24.2	33.4197
W-9	35.7	-12.6	33.4197

BENZENE

Kruskal-Wallis Non-Parametric Test

Parameter: Benzene

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	ND<0.4	50
	10/27/16	ND<0.4	50
	03/29/17	ND<0.4	50
	09/18/17	ND<0.4	50
	03/28/18	ND<0.4	50
	09/27/18	ND<0.4	50
	03/25/19	ND<0.4	50
	09/24/19	ND<0.4	50
	03/30/20	ND<0.4	50
	09/29/20	ND<0.4	50

Rank Sum = 500
Rank Mean = 50

Background Rank Sum = 500
Background Rank Mean = 50

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	ND<0.4	50
	10/27/16	ND<0.4	50
	03/29/17	ND<0.4	50
	09/18/17	ND<0.4	50
	03/28/18	ND<0.4	50
	09/27/18	ND<0.4	50
	03/25/19	ND<0.4	50
	09/24/19	ND<0.4	50
	03/30/20	ND<0.4	50
	09/29/20	ND<0.4	50

Rank Sum = 500
Rank Mean = 50

W-10	03/30/16	ND<0.4	50
	10/27/16	ND<0.4	50
	03/29/17	ND<0.4	50
	03/28/18	ND<0.4	50
	09/27/18	ND<0.4	50
	03/25/19	ND<0.4	50
	09/24/19	ND<0.4	50
	03/30/20	ND<0.4	50
	09/29/20	ND<0.4	50

Rank Sum = 450
Rank Mean = 50

W-3	03/30/16	ND<0.4	50
	10/27/16	ND<0.4	50
	03/29/17	ND<0.4	50

	09/18/17	ND<0.4	50
	03/28/18	ND<0.4	50
	09/27/18	ND<0.4	50
	03/25/19	ND<0.4	50
	09/24/19	ND<0.4	50
	03/30/20	ND<0.4	50
	09/29/20	ND<0.4	50

Rank Sum = 500
Rank Mean = 50

W-4	03/30/16	ND<0.4	50
	10/27/16	ND<0.4	50
	03/29/17	ND<0.4	50
	09/18/17	ND<0.4	50
	03/28/18	ND<0.4	50
	09/27/18	ND<0.4	50
	03/25/19	ND<0.4	50
	09/24/19	ND<0.4	50
	03/30/20	ND<0.4	50
	09/29/20	ND<0.4	50

Rank Sum = 500
Rank Mean = 50

W-5	03/30/16	ND<0.4	50
	10/27/16	ND<0.4	50
	03/29/17	ND<0.4	50
	09/18/17	ND<0.4	50
	03/28/18	ND<0.4	50
	09/27/18	ND<0.4	50
	03/25/19	ND<0.4	50
	09/24/19	ND<0.4	50
	03/30/20	ND<0.4	50
	09/29/20	ND<0.4	50

Rank Sum = 500
Rank Mean = 50

W-6	03/30/16	ND<0.4	50
	10/27/16	ND<0.4	50
	03/29/17	ND<0.4	50
	09/18/17	ND<0.4	50
	03/28/18	ND<0.4	50
	09/27/18	ND<0.4	50
	03/25/19	ND<0.4	50
	09/24/19	ND<0.4	50
	03/30/20	ND<0.4	50
	09/29/20	ND<0.4	50

Rank Sum = 500
Rank Mean = 50

W-7	03/30/16	ND<0.4	50
	10/27/16	ND<0.4	50
	03/29/17	ND<0.4	50
	09/18/17	ND<0.4	50
	03/28/18	ND<0.4	50
	09/27/18	ND<0.4	50
	03/25/19	ND<0.4	50
	09/24/19	ND<0.4	50

	03/30/20	ND<0.4	50
	09/29/20	ND<0.4	50

Rank Sum = 500
Rank Mean = 50

W-8	03/30/16	ND<0.4	50
	10/27/16	ND<0.4	50
	03/29/17	ND<0.4	50
	09/18/17	ND<0.4	50
	03/28/18	ND<0.4	50
	09/27/18	ND<0.4	50
	03/25/19	ND<0.4	50
	09/24/19	ND<0.4	50
	03/30/20	ND<0.4	50
	09/29/20	ND<0.4	50

Rank Sum = 500
Rank Mean = 50

W-9	03/30/16	ND<0.4	50
	10/27/16	ND<0.4	50
	03/29/17	ND<0.4	50
	09/18/17	ND<0.4	50
	03/28/18	ND<0.4	50
	09/27/18	ND<0.4	50
	03/25/19	ND<0.4	50
	09/24/19	ND<0.4	50
	03/30/20	ND<0.4	50
	09/29/20	ND<0.4	50

Rank Sum = 500
Rank Mean = 50

Calculation Results:

Kruskal-Wallis H Statistic = 0
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = -1.#IND
95% Confidence comparison value is 16.919 at 9 degrees of freedom
0 < 16.919 indicating no contamination at 5% significance level
-1.#IND < 16.919 indicating no contamination at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 50

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	50	0	29.8824
W-10	50	0	30.7013
W-3	50	0	29.8824
W-4	50	0	29.8824
W-5	50	0	29.8824
W-6	50	0	29.8824
W-7	50	0	29.8824
W-8	50	0	29.8824
W-9	50	0	29.8824

Individual Well Comparisons at Groupwise 5% Significance Level (0.555556% Significance Level per comparison)

0.555556% Z score is 2.57583
Mean background rank is 50

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	50	0	33.0872
W-10	50	0	33.9939
W-3	50	0	33.0872
W-4	50	0	33.0872
W-5	50	0	33.0872
W-6	50	0	33.0872
W-7	50	0	33.0872
W-8	50	0	33.0872
W-9	50	0	33.0872

CHLOROBENZENE

Kruskal-Wallis Non-Parametric Test

Parameter: Chlorobenzene

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	ND<0.3	50
	10/27/16	ND<0.3	50
	03/29/17	ND<0.3	50
	09/18/17	ND<0.3	50
	03/28/18	ND<0.3	50
	09/27/18	ND<0.3	50
	03/25/19	ND<0.3	50
	09/24/19	ND<0.3	50
	03/30/20	ND<0.3	50
	09/29/20	ND<0.3	50

Rank Sum = 500
Rank Mean = 50

Background Rank Sum = 500
Background Rank Mean = 50

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	ND<0.3	50
	10/27/16	ND<0.3	50
	03/29/17	ND<0.3	50
	09/18/17	ND<0.3	50
	03/28/18	ND<0.3	50
	09/27/18	ND<0.3	50
	03/25/19	ND<0.3	50
	09/24/19	ND<0.3	50
	03/30/20	ND<0.3	50
	09/29/20	ND<0.3	50

Rank Sum = 500
Rank Mean = 50

W-10	03/30/16	ND<0.3	50
	10/27/16	ND<0.3	50
	03/29/17	ND<0.3	50
	03/28/18	ND<0.3	50
	09/27/18	ND<0.3	50
	03/25/19	ND<0.3	50
	09/24/19	ND<0.3	50
	03/30/20	ND<0.3	50
	09/29/20	ND<0.3	50

Rank Sum = 450
Rank Mean = 50

W-3	03/30/16	ND<0.3	50
	10/27/16	ND<0.3	50
	03/29/17	ND<0.3	50

	09/18/17	ND<0.3	50
	03/28/18	ND<0.3	50
	09/27/18	ND<0.3	50
	03/25/19	ND<0.3	50
	09/24/19	ND<0.3	50
	03/30/20	ND<0.3	50
	09/29/20	ND<0.3	50

Rank Sum = 500
Rank Mean = 50

W-4	03/30/16	ND<0.3	50
	10/27/16	ND<0.3	50
	03/29/17	ND<0.3	50
	09/18/17	ND<0.3	50
	03/28/18	ND<0.3	50
	09/27/18	ND<0.3	50
	03/25/19	ND<0.3	50
	09/24/19	ND<0.3	50
	03/30/20	ND<0.3	50
	09/29/20	ND<0.3	50

Rank Sum = 500
Rank Mean = 50

W-5	03/30/16	ND<0.3	50
	10/27/16	ND<0.3	50
	03/29/17	ND<0.3	50
	09/18/17	ND<0.3	50
	03/28/18	ND<0.3	50
	09/27/18	ND<0.3	50
	03/25/19	ND<0.3	50
	09/24/19	ND<0.3	50
	03/30/20	ND<0.3	50
	09/29/20	ND<0.3	50

Rank Sum = 500
Rank Mean = 50

W-6	03/30/16	ND<0.3	50
	10/27/16	ND<0.3	50
	03/29/17	ND<0.3	50
	09/18/17	ND<0.3	50
	03/28/18	ND<0.3	50
	09/27/18	ND<0.3	50
	03/25/19	ND<0.3	50
	09/24/19	ND<0.3	50
	03/30/20	ND<0.3	50
	09/29/20	ND<0.3	50

Rank Sum = 500
Rank Mean = 50

W-7	03/30/16	ND<0.3	50
	10/27/16	ND<0.3	50
	03/29/17	ND<0.3	50
	09/18/17	ND<0.3	50
	03/28/18	ND<0.3	50
	09/27/18	ND<0.3	50
	03/25/19	ND<0.3	50
	09/24/19	ND<0.3	50

	03/30/20	ND<0.3	50
	09/29/20	ND<0.3	50

Rank Sum = 500
Rank Mean = 50

W-8	03/30/16	ND<0.3	50
	10/27/16	ND<0.3	50
	03/29/17	ND<0.3	50
	09/18/17	ND<0.3	50
	03/28/18	ND<0.3	50
	09/27/18	ND<0.3	50
	03/25/19	ND<0.3	50
	09/24/19	ND<0.3	50
	03/30/20	ND<0.3	50
	09/29/20	ND<0.3	50

Rank Sum = 500
Rank Mean = 50

W-9	03/30/16	ND<0.3	50
	10/27/16	ND<0.3	50
	03/29/17	ND<0.3	50
	09/18/17	ND<0.3	50
	03/28/18	ND<0.3	50
	09/27/18	ND<0.3	50
	03/25/19	ND<0.3	50
	09/24/19	ND<0.3	50
	03/30/20	ND<0.3	50
	09/29/20	ND<0.3	50

Rank Sum = 500
Rank Mean = 50

Calculation Results:

Kruskal-Wallis H Statistic = 0
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = -1.#IND
95% Confidence comparison value is 16.919 at 9 degrees of freedom
0 < 16.919 indicating no contamination at 5% significance level
-1.#IND < 16.919 indicating no contamination at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 50

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	50	0	29.8824
W-10	50	0	30.7013
W-3	50	0	29.8824
W-4	50	0	29.8824
W-5	50	0	29.8824
W-6	50	0	29.8824
W-7	50	0	29.8824
W-8	50	0	29.8824
W-9	50	0	29.8824

Individual Well Comparisons at Groupwise 5% Significance Level (0.555556% Significance Level per comparison)

0.555556% Z score is 2.57583
Mean background rank is 50

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	50	0	33.0872
W-10	50	0	33.9939
W-3	50	0	33.0872
W-4	50	0	33.0872
W-5	50	0	33.0872
W-6	50	0	33.0872
W-7	50	0	33.0872
W-8	50	0	33.0872
W-9	50	0	33.0872

1,4-DICHLOROBENZENE

Kruskal-Wallis Non-Parametric Test

Parameter: 1,4-Dichlorobenzene

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	ND<0.8	50
	10/27/16	ND<0.8	50
	03/29/17	ND<0.8	50
	09/18/17	ND<0.8	50
	03/28/18	ND<0.8	50
	09/27/18	ND<0.8	50
	03/25/19	ND<0.8	50
	09/24/19	ND<0.8	50
	03/30/20	ND<0.8	50
	09/29/20	ND<0.8	50

Rank Sum = 500
Rank Mean = 50

Background Rank Sum = 500
Background Rank Mean = 50

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	ND<0.8	50
	10/27/16	ND<0.8	50
	03/29/17	ND<0.8	50
	09/18/17	ND<0.8	50
	03/28/18	ND<0.8	50
	09/27/18	ND<0.8	50
	03/25/19	ND<0.8	50
	09/24/19	ND<0.8	50
	03/30/20	ND<0.8	50
	09/29/20	ND<0.8	50

Rank Sum = 500
Rank Mean = 50

W-10	03/30/16	ND<0.8	50
	10/27/16	ND<0.8	50
	03/29/17	ND<0.8	50
	03/28/18	ND<0.8	50
	09/27/18	ND<0.8	50
	03/25/19	ND<0.8	50
	09/24/19	ND<0.8	50
	03/30/20	ND<0.8	50
	09/29/20	ND<0.8	50

Rank Sum = 450
Rank Mean = 50

W-3	03/30/16	ND<0.8	50
	10/27/16	ND<0.8	50
	03/29/17	ND<0.8	50

	09/18/17	ND<0.8	50
	03/28/18	ND<0.8	50
	09/27/18	ND<0.8	50
	03/25/19	ND<0.8	50
	09/24/19	ND<0.8	50
	03/30/20	ND<0.8	50
	09/29/20	ND<0.8	50

Rank Sum = 500
Rank Mean = 50

W-4	03/30/16	ND<0.8	50
	10/27/16	ND<0.8	50
	03/29/17	ND<0.8	50
	09/18/17	ND<0.8	50
	03/28/18	ND<0.8	50
	09/27/18	ND<0.8	50
	03/25/19	ND<0.8	50
	09/24/19	ND<0.8	50
	03/30/20	ND<0.8	50
	09/29/20	ND<0.8	50

Rank Sum = 500
Rank Mean = 50

W-5	03/30/16	ND<0.8	50
	10/27/16	ND<0.8	50
	03/29/17	ND<0.8	50
	09/18/17	ND<0.8	50
	03/28/18	ND<0.8	50
	09/27/18	ND<0.8	50
	03/25/19	ND<0.8	50
	09/24/19	ND<0.8	50
	03/30/20	ND<0.8	50
	09/29/20	ND<0.8	50

Rank Sum = 500
Rank Mean = 50

W-6	03/30/16	ND<0.8	50
	10/27/16	ND<0.8	50
	03/29/17	ND<0.8	50
	09/18/17	ND<0.8	50
	03/28/18	ND<0.8	50
	09/27/18	ND<0.8	50
	03/25/19	ND<0.8	50
	09/24/19	ND<0.8	50
	03/30/20	ND<0.8	50
	09/29/20	ND<0.8	50

Rank Sum = 500
Rank Mean = 50

W-7	03/30/16	ND<0.8	50
	10/27/16	ND<0.8	50
	03/29/17	ND<0.8	50
	09/18/17	ND<0.8	50
	03/28/18	ND<0.8	50
	09/27/18	ND<0.8	50
	03/25/19	ND<0.8	50
	09/24/19	ND<0.8	50

	03/30/20	ND<0.8	50
	09/29/20	ND<0.8	50

Rank Sum = 500
Rank Mean = 50

W-8	03/30/16	ND<0.8	50
	10/27/16	ND<0.8	50
	03/29/17	ND<0.8	50
	09/18/17	ND<0.8	50
	03/28/18	ND<0.8	50
	09/27/18	ND<0.8	50
	03/25/19	ND<0.8	50
	09/24/19	ND<0.8	50
	03/30/20	ND<0.8	50
	09/29/20	ND<0.8	50

Rank Sum = 500
Rank Mean = 50

W-9	03/30/16	ND<0.8	50
	10/27/16	ND<0.8	50
	03/29/17	ND<0.8	50
	09/18/17	ND<0.8	50
	03/28/18	ND<0.8	50
	09/27/18	ND<0.8	50
	03/25/19	ND<0.8	50
	09/24/19	ND<0.8	50
	03/30/20	ND<0.8	50
	09/29/20	ND<0.8	50

Rank Sum = 500
Rank Mean = 50

Calculation Results:

Kruskal-Wallis H Statistic = 0
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = -1.#IND
95% Confidence comparison value is 16.919 at 9 degrees of freedom
0 < 16.919 indicating no contamination at 5% significance level
-1.#IND < 16.919 indicating no contamination at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 50

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	50	0	29.8824
W-10	50	0	30.7013
W-3	50	0	29.8824
W-4	50	0	29.8824
W-5	50	0	29.8824
W-6	50	0	29.8824
W-7	50	0	29.8824
W-8	50	0	29.8824
W-9	50	0	29.8824

Individual Well Comparisons at Groupwise 5% Significance Level (0.555556% Significance Level per comparison)

0.555556% Z score is 2.57583
Mean background rank is 50

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	50	0	33.0872
W-10	50	0	33.9939
W-3	50	0	33.0872
W-4	50	0	33.0872
W-5	50	0	33.0872
W-6	50	0	33.0872
W-7	50	0	33.0872
W-8	50	0	33.0872
W-9	50	0	33.0872

METHYL-TERTIARY-BUTYL-ETHER

Kruskal-Wallis Non-Parametric Test

Parameter: Methyl-Tert-Butyl Ether

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
W-11	03/30/16	ND<1	50
	10/27/16	ND<1	50
	03/29/17	ND<1	50
	09/18/17	ND<1	50
	03/28/18	ND<1	50
	09/27/18	ND<1	50
	03/25/19	ND<1	50
	09/24/19	ND<1	50
	03/30/20	ND<1	50
	09/29/20	ND<1	50

Rank Sum = 500
Rank Mean = 50

Background Rank Sum = 500
Background Rank Mean = 50

Compliance Wells

Well ID	Date	Result	Rank
Pond 1	03/30/16	ND<1	50
	10/27/16	ND<1	50
	03/29/17	ND<1	50
	09/18/17	ND<1	50
	03/28/18	ND<1	50
	09/27/18	ND<1	50
	03/25/19	ND<1	50
	09/24/19	ND<1	50
	03/30/20	ND<1	50
	09/29/20	ND<1	50

Rank Sum = 500
Rank Mean = 50

W-10	03/30/16	ND<1	50
	10/27/16	ND<1	50
	03/29/17	ND<1	50
	03/28/18	ND<1	50
	09/27/18	ND<1	50
	03/25/19	ND<1	50
	09/24/19	ND<1	50
	03/30/20	ND<1	50
	09/29/20	ND<1	50

Rank Sum = 450
Rank Mean = 50

W-3	03/30/16	ND<1	50
	10/27/16	ND<1	50
	03/29/17	ND<1	50

	09/18/17	ND<1	50
	03/28/18	ND<1	50
	09/27/18	ND<1	50
	03/25/19	ND<1	50
	09/24/19	ND<1	50
	03/30/20	ND<1	50
	09/29/20	ND<1	50

Rank Sum = 500
Rank Mean = 50

W-4	03/30/16	ND<1	50
	10/27/16	ND<1	50
	03/29/17	ND<1	50
	09/18/17	ND<1	50
	03/28/18	ND<1	50
	09/27/18	ND<1	50
	03/25/19	ND<1	50
	09/24/19	ND<1	50
	03/30/20	ND<1	50
	09/29/20	ND<1	50

Rank Sum = 500
Rank Mean = 50

W-5	03/30/16	ND<1	50
	10/27/16	ND<1	50
	03/29/17	ND<1	50
	09/18/17	ND<1	50
	03/28/18	ND<1	50
	09/27/18	ND<1	50
	03/25/19	ND<1	50
	09/24/19	ND<1	50
	03/30/20	ND<1	50
	09/29/20	ND<1	50

Rank Sum = 500
Rank Mean = 50

W-6	03/30/16	ND<1	50
	10/27/16	ND<1	50
	03/29/17	ND<1	50
	09/18/17	ND<1	50
	03/28/18	ND<1	50
	09/27/18	ND<1	50
	03/25/19	ND<1	50
	09/24/19	ND<1	50
	03/30/20	ND<1	50
	09/29/20	ND<1	50

Rank Sum = 500
Rank Mean = 50

W-7	03/30/16	ND<1	50
	10/27/16	ND<1	50
	03/29/17	ND<1	50
	09/18/17	ND<1	50
	03/28/18	ND<1	50
	09/27/18	ND<1	50
	03/25/19	ND<1	50
	09/24/19	ND<1	50

	03/30/20	ND<1	50
	09/29/20	ND<1	50

Rank Sum = 500
Rank Mean = 50

W-8	03/30/16	ND<1	50
	10/27/16	ND<1	50
	03/29/17	ND<1	50
	09/18/17	ND<1	50
	03/28/18	ND<1	50
	09/27/18	ND<1	50
	03/25/19	ND<1	50
	09/24/19	ND<1	50
	03/30/20	ND<1	50
	09/29/20	ND<1	50

Rank Sum = 500
Rank Mean = 50

W-9	03/30/16	ND<1	50
	10/27/16	ND<1	50
	03/29/17	ND<1	50
	09/18/17	ND<1	50
	03/28/18	ND<1	50
	09/27/18	ND<1	50
	03/25/19	ND<1	50
	09/24/19	ND<1	50
	03/30/20	ND<1	50
	09/29/20	ND<1	50

Rank Sum = 500
Rank Mean = 50

Calculation Results:

Kruskal-Wallis H Statistic = 0
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = -1.#IND
95% Confidence comparison value is 16.919 at 9 degrees of freedom
0 < 16.919 indicating no contamination at 5% significance level
-1.#IND < 16.919 indicating no contamination at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 50

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	50	0	29.8824
W-10	50	0	30.7013
W-3	50	0	29.8824
W-4	50	0	29.8824
W-5	50	0	29.8824
W-6	50	0	29.8824
W-7	50	0	29.8824
W-8	50	0	29.8824
W-9	50	0	29.8824

Individual Well Comparisons at Groupwise 5% Significance Level (0.555556% Significance Level per comparison)

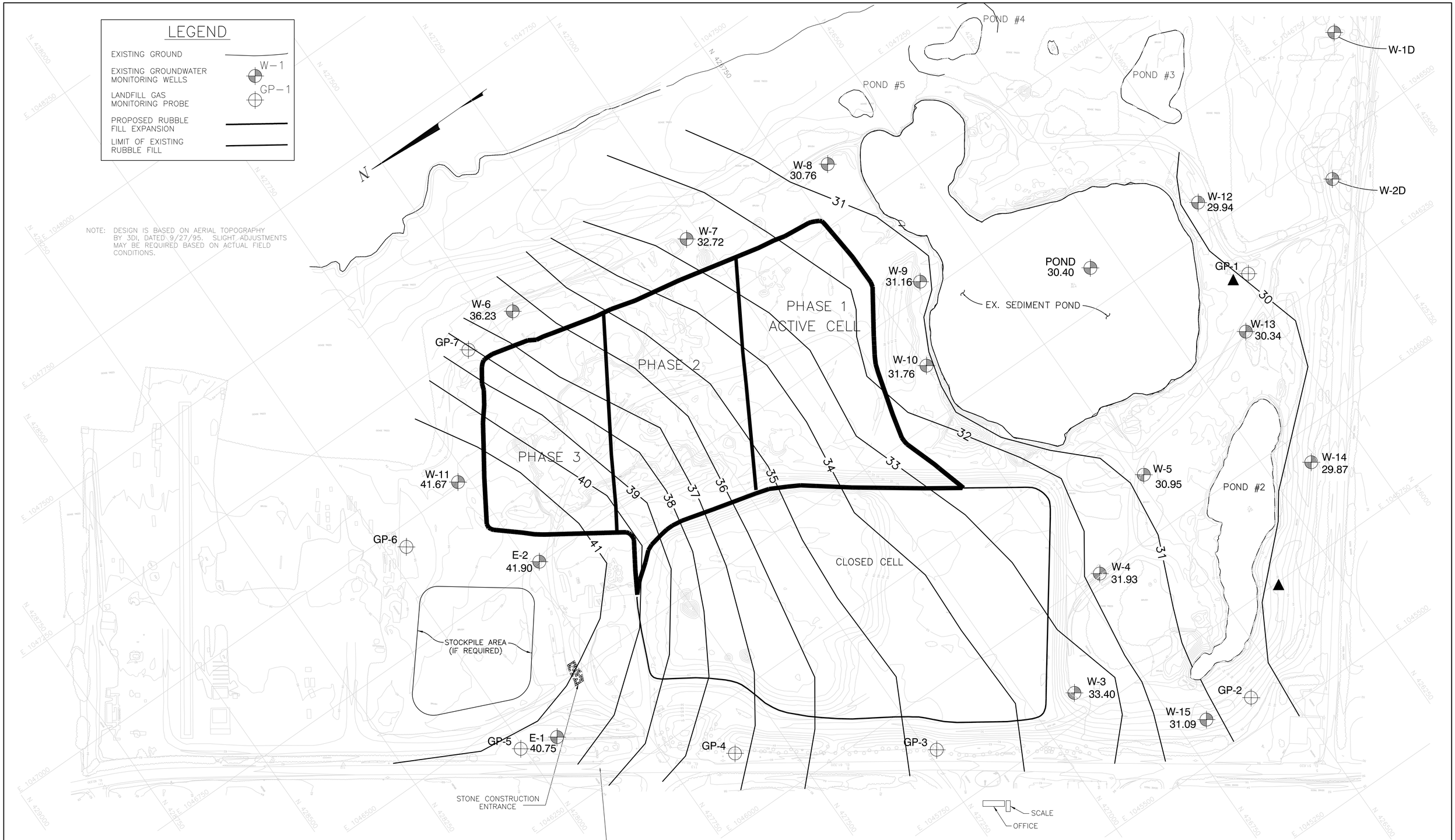
0.555556% Z score is 2.57583
Mean background rank is 50

Well	Mean Rank	Dif from Bkg	Critical Value
Pond 1	50	0	33.0872
W-10	50	0	33.9939
W-3	50	0	33.0872
W-4	50	0	33.0872
W-5	50	0	33.0872
W-6	50	0	33.0872
W-7	50	0	33.0872
W-8	50	0	33.0872
W-9	50	0	33.0872

APPENDIX F

GROUNDWATER CONTOUR MAPS

2nd HALF 2020 CONTAMINANT PLUME MAPS



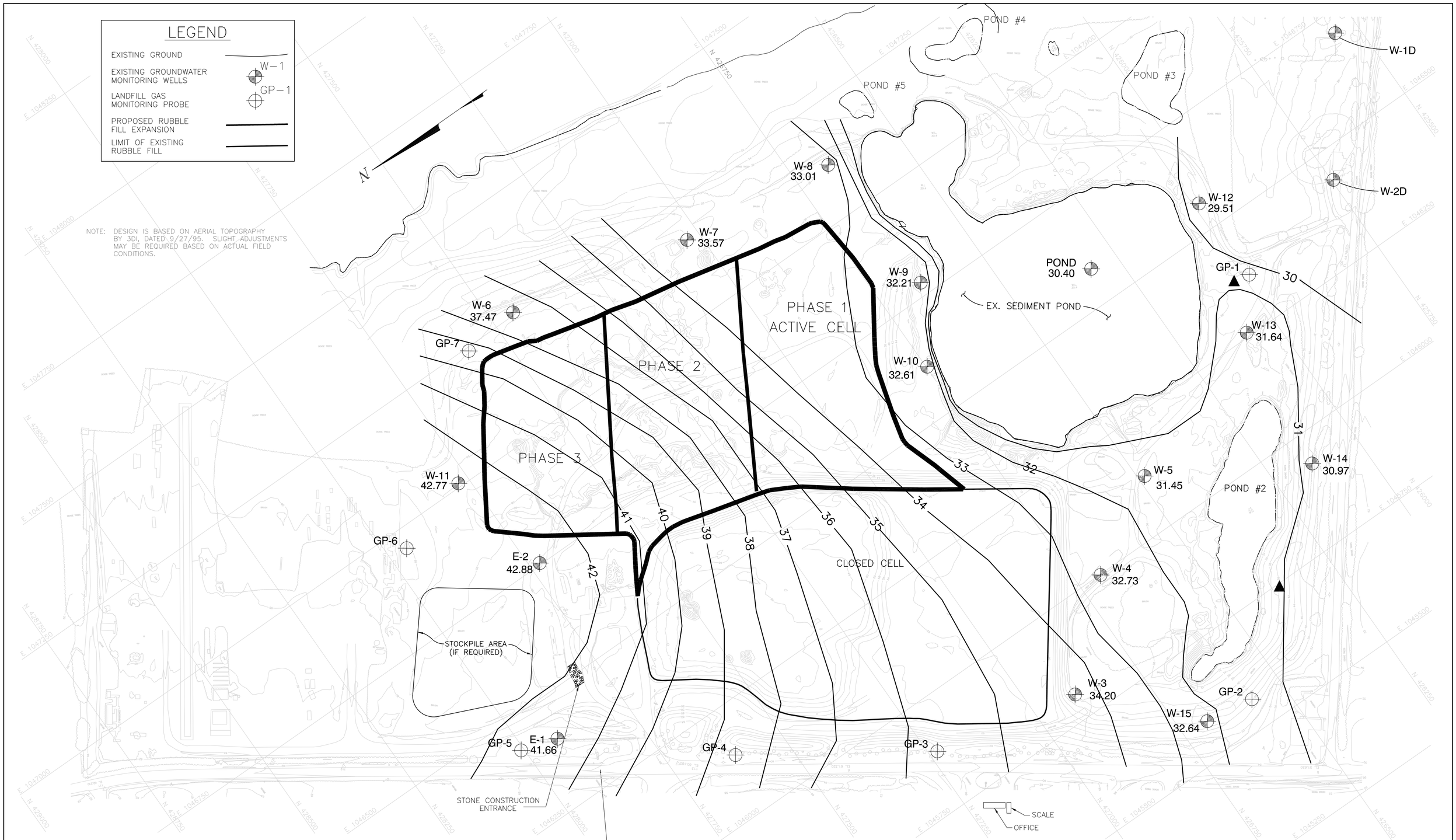
CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
DOVER, DELAWARE 19901

ROUTE 18 QUEENSTOWN CENTREVILLE ROAD
JULY 2020
MEASURED ON JULY 4, 2020

R.B.BAKER & SONS SITE
Queen Anne's County, Maryland

GROUND WATER CONTOURS

Scale: 1"= 200'



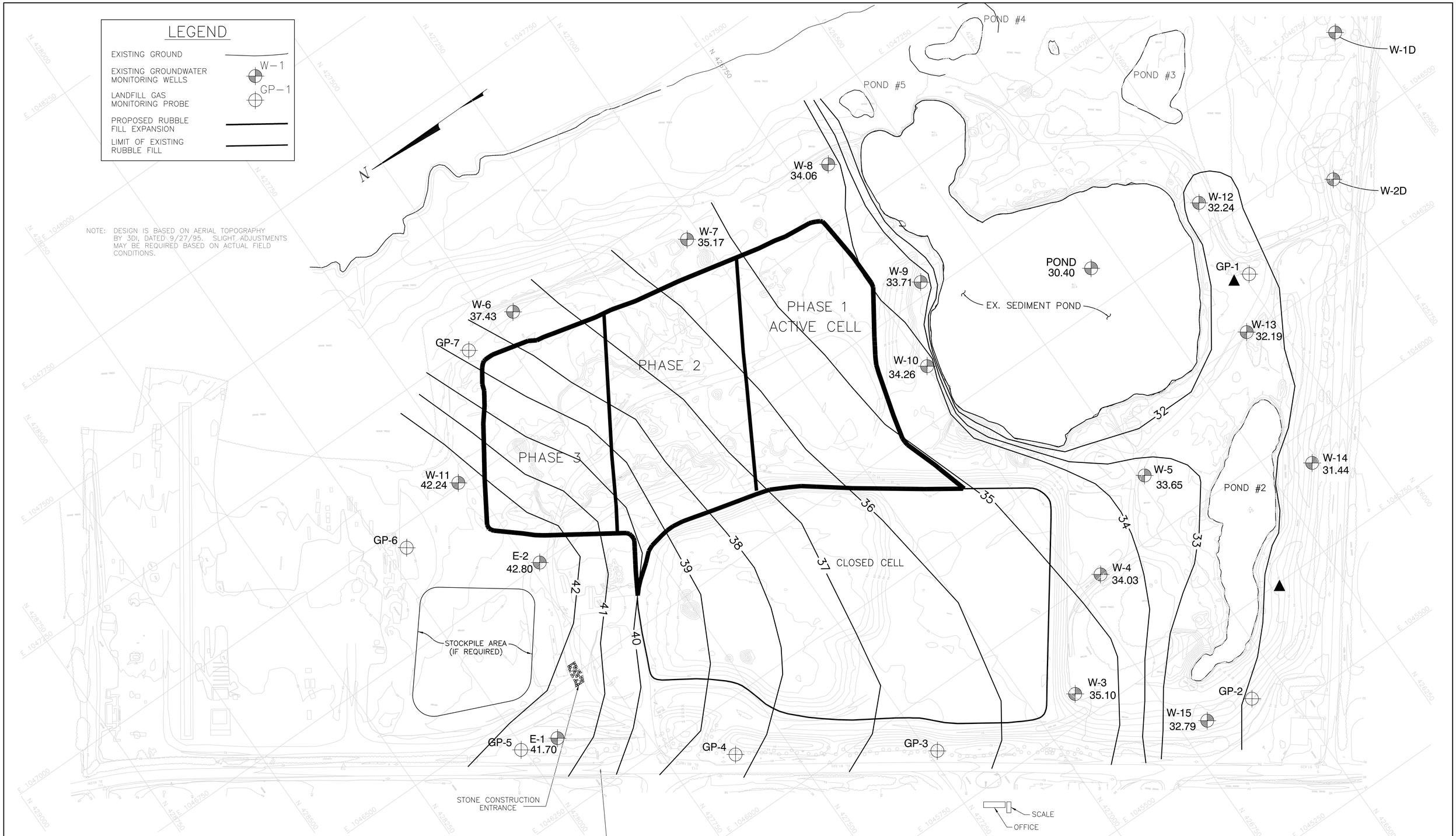
CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
DOVER, DELAWARE 19901

ROUTE 18 QUEENSTOWN CENTREVILLE ROAD
AUGUST 2020
MEASURED ON AUGUST 20, 2020

R.B.BAKER & SONS SITE
Queen Anne's County, Maryland

GROUND WATER CONTOURS

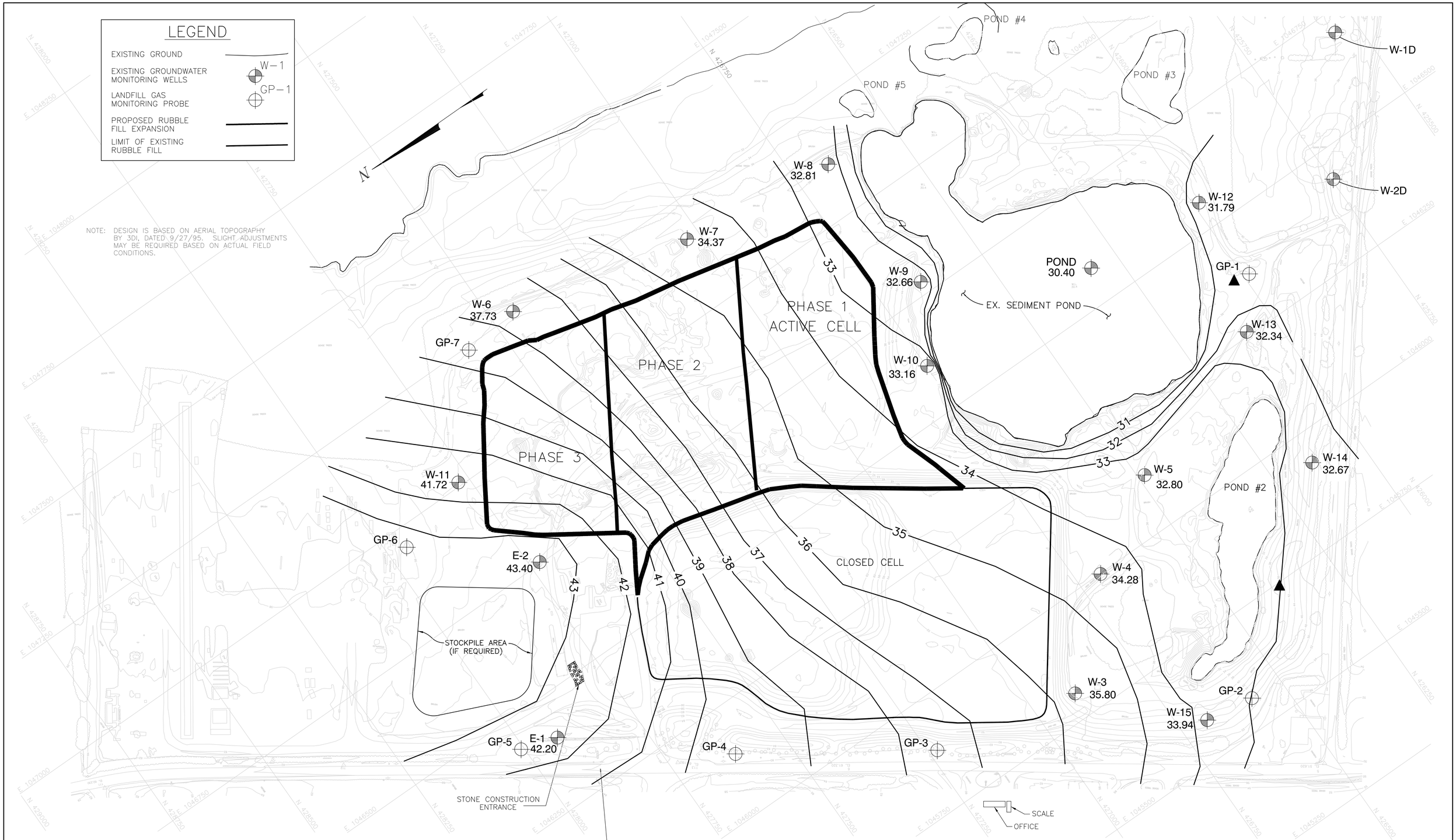
Scale: 1"= 200'



CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
DOVER, DELAWARE 19901

ROUTE 18 QUEENSTOWN CENTREVILLE ROAD
SEPTEMBER 2020
MEASURED ON SEPTEMBER 4, 2020

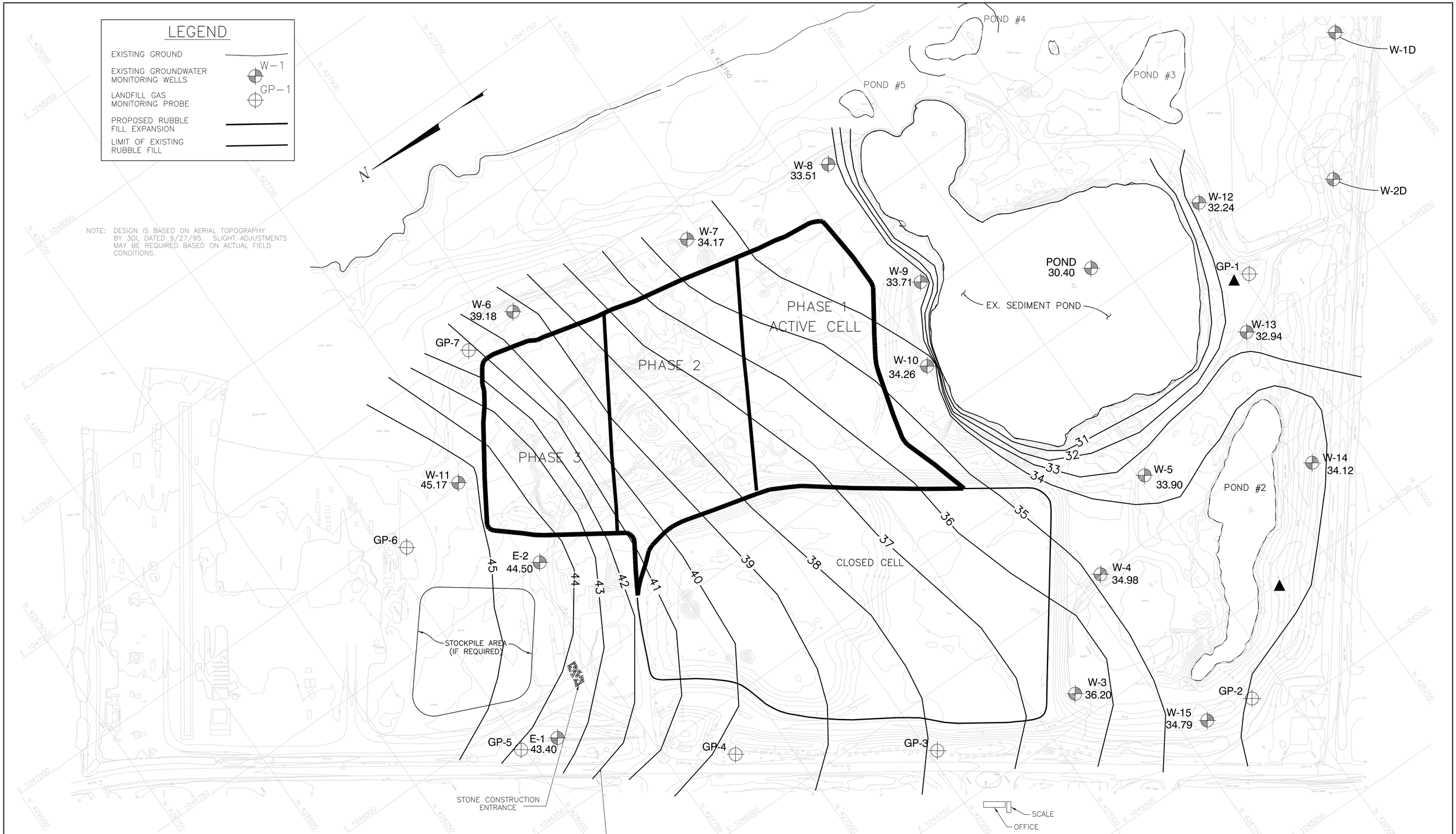
R.B.BAKER & SONS SITE
Queen Anne's County, Maryland
GROUND WATER CONTOURS
Scale: 1"= 200'



CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
DOVER, DELAWARE 19901

ROUTE 18 QUEENSTOWN CENTREVILLE ROAD
OCTOBER 2020
MEASURED ON OCTOBER 8, 2020

R.B.BAKER & SONS SITE
Queen Anne's County, Maryland
GROUND WATER CONTOURS
Scale: 1"= 200'



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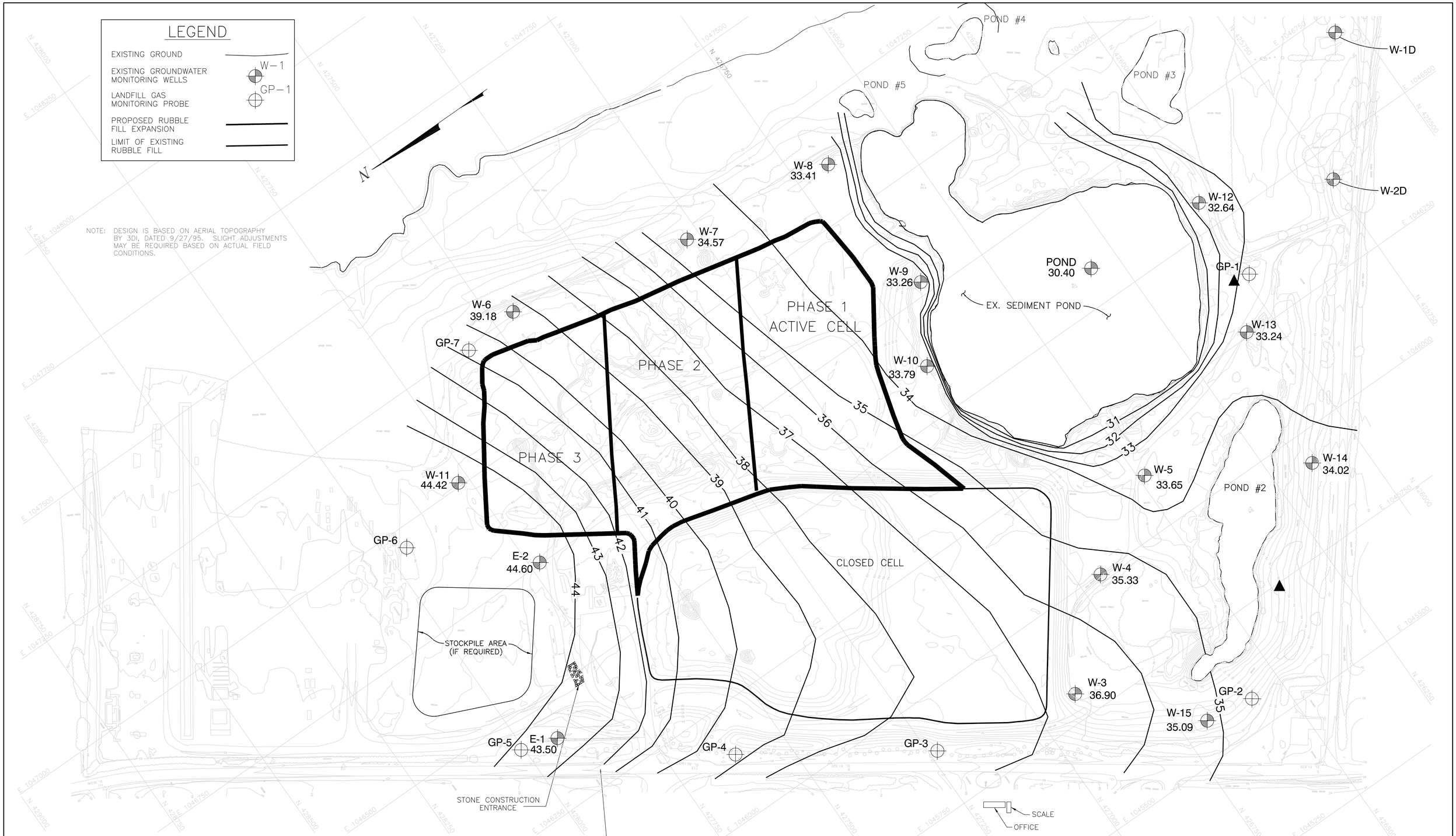
DOVER, DELAWARE 19901

ROUTE 18 QUEENSTOWN CENTREVILLE ROAD
NOVEMBER 2020
MEASURED ON NOVEMBER 13, 2020

R.B.BAKER & SONS SITE
Queen Anne's County, Maryland
GROUND WATER CONTOURS
Scale: 1"= 200'



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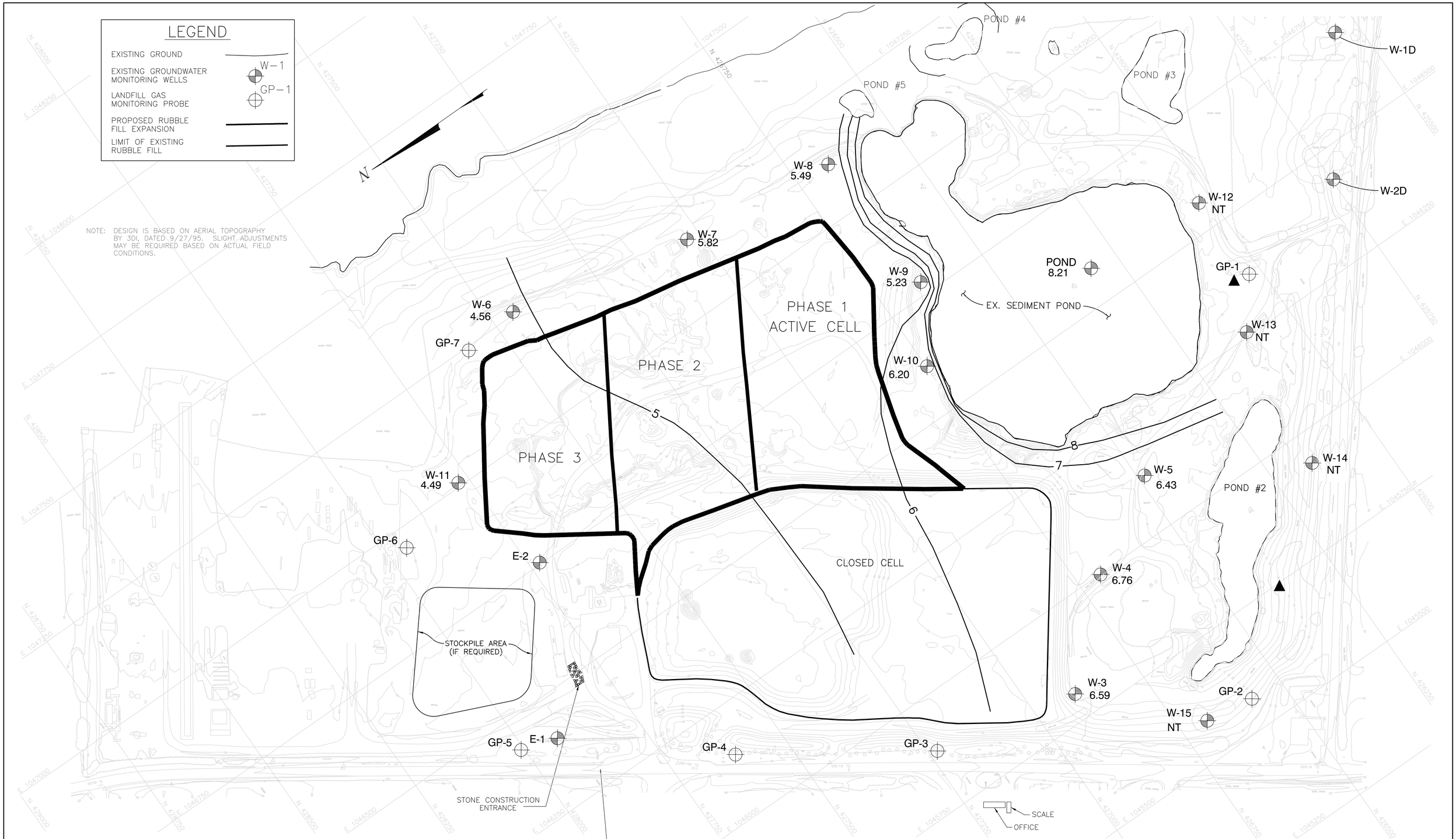
DOVER, DELAWARE 19901

DECEMBER 2020
MEASURED ON DECEMBER 11, 2020

R.B.BAKER & SONS SITE
Queen Anne's County, Maryland

GROUND WATER CONTOURS

Scale: 1"= 200'



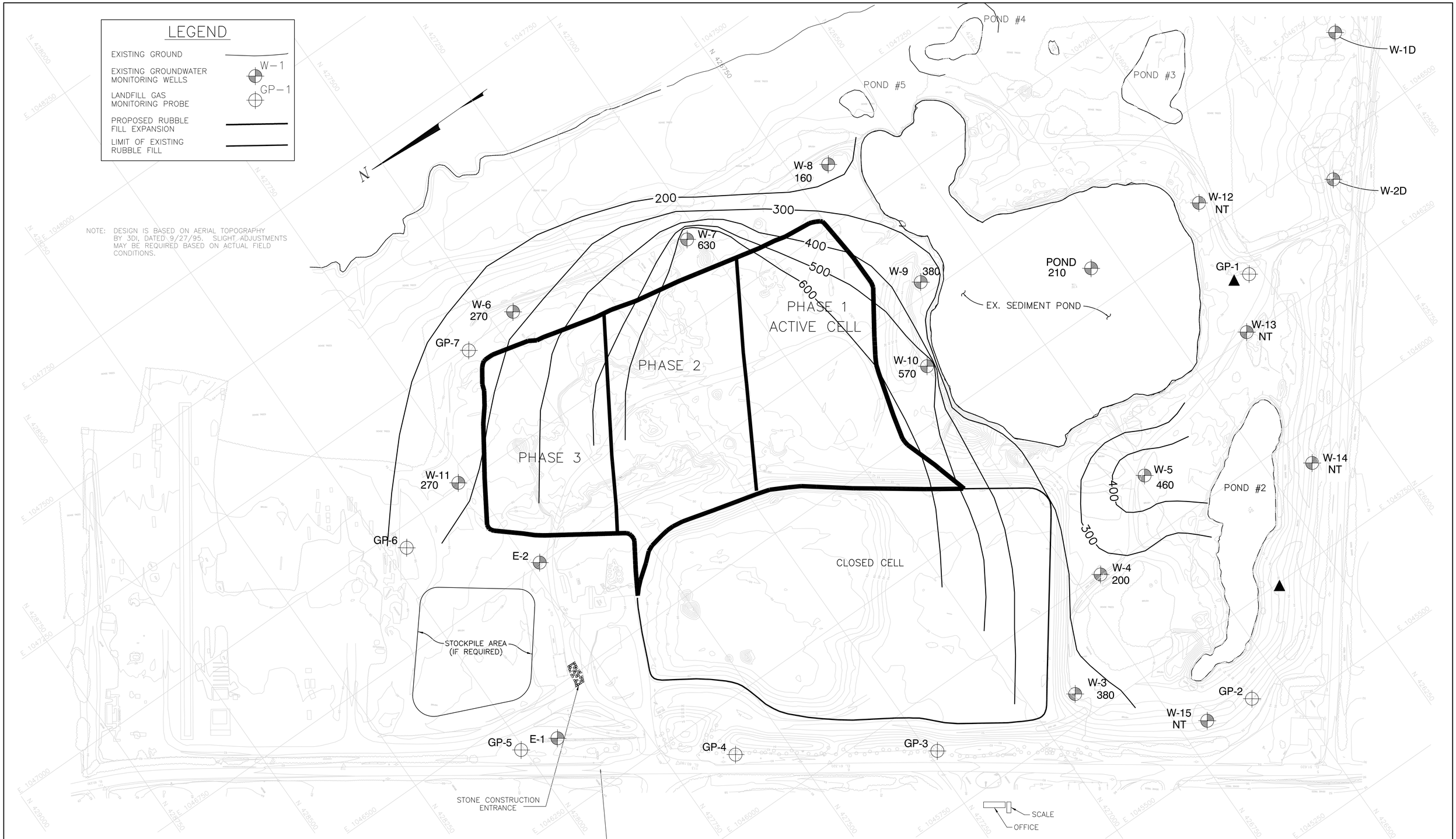
CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
DOVER, DELAWARE 19901

PH
2ND HALF 2020 SEMI-ANNUAL

R.B.BAKER & SONS SITE
Queen Anne's County, Maryland

GROUND WATER CONTOURS

Scale: 1"= 200'



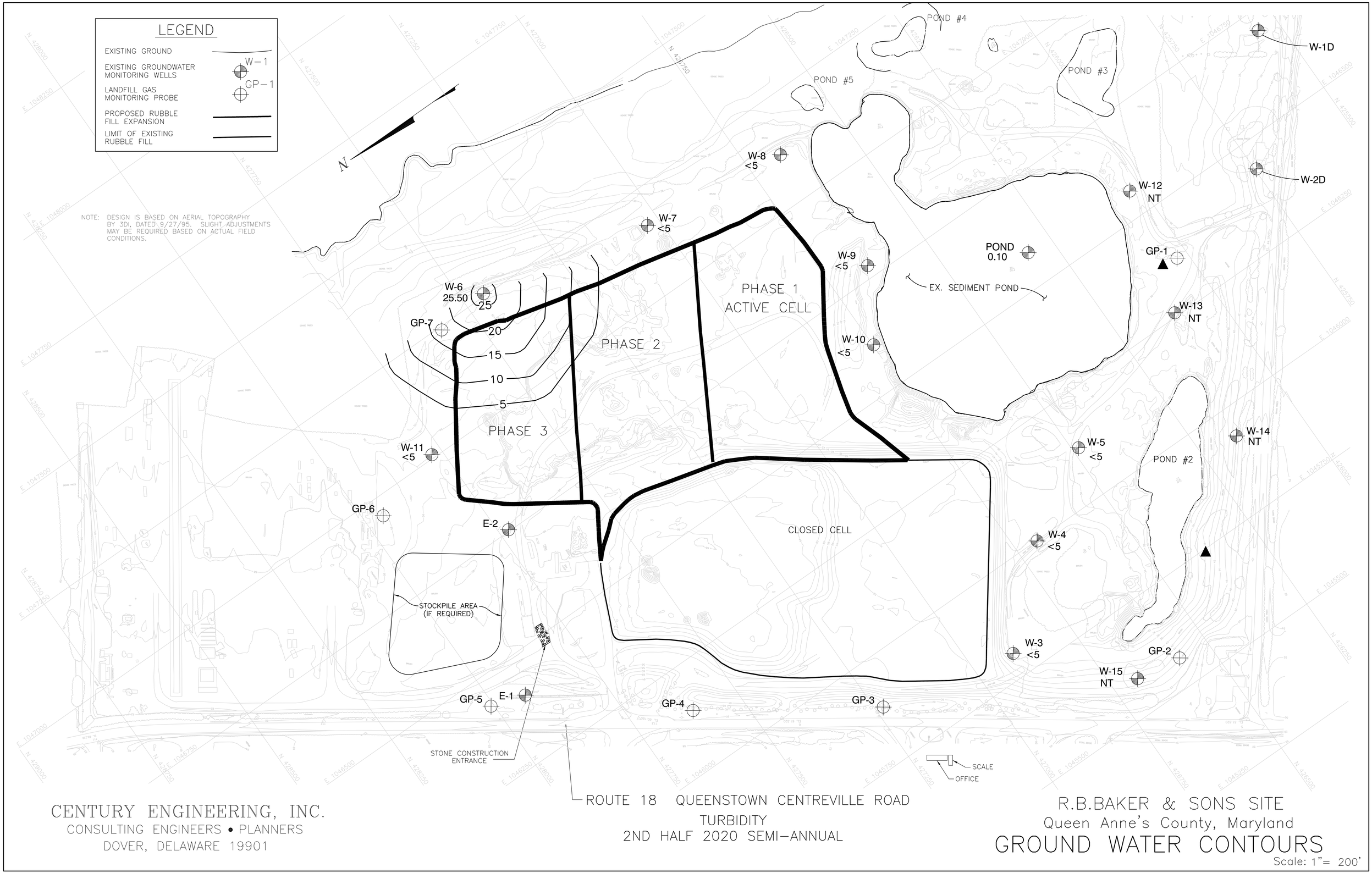
CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
DOVER, DELAWARE 19901

TOTAL DISSOLVED SOLIDS
2ND HALF 2020 SEMI-ANNUAL

R.B.BAKER & SONS SITE
Queen Anne's County, Maryland

GROUND WATER CONTOURS

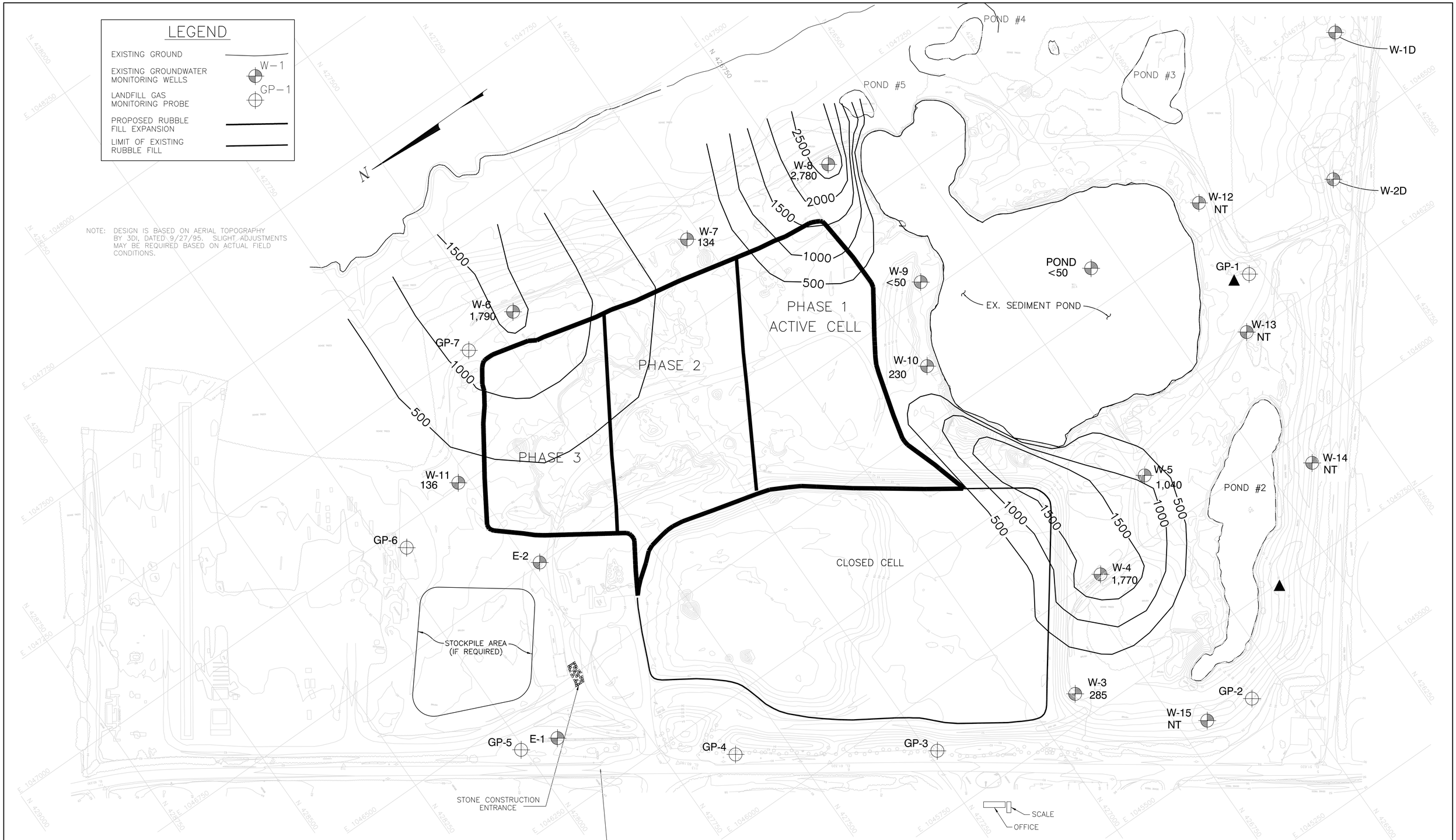
Scale: 1"= 200'



CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
DOVER, DELAWARE 19901

ROUTE 18 QUEENSTOWN CENTREVILLE ROAD
TURBIDITY
2ND HALF 2020 SEMI-ANNUAL

R.B.BAKER & SONS SITE
Queen Anne's County, Maryland
GROUND WATER CONTOURS
Scale: 1"= 200'



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DOVER, DELAWARE 19901

IRON
2ND HALF 2020 SEMI-ANNUAL

R.B.BAKER & SONS SITE
Queen Anne's County, Maryland

GROUND WATER CONTOURS

Scale: 1"= 200'

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
DOVER, DELAWARE 19901

ROUTE 18 QUEENSTOWN CENTREVILLE ROAD
MANGANESE
2ND HALF 2020 SEMI-ANNUAL

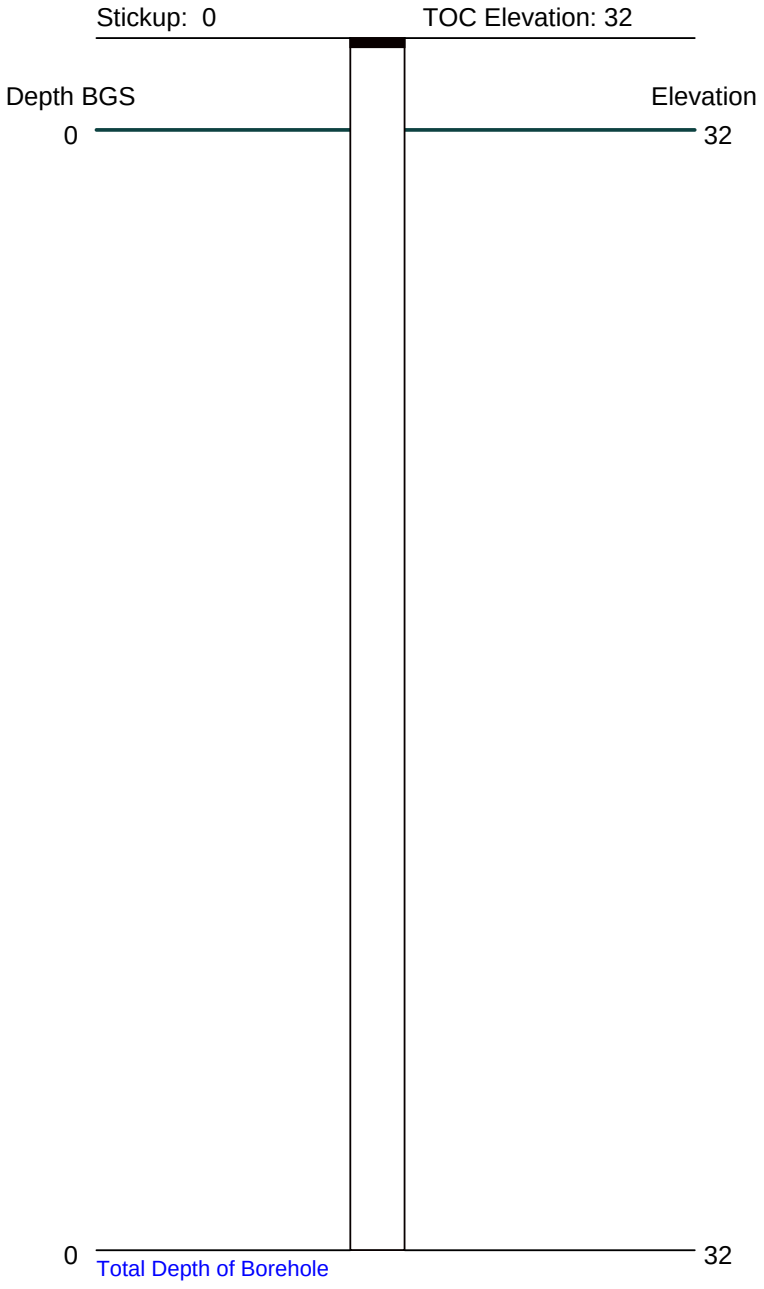
R.B.BAKER & SONS SITE
Queen Anne's County, Maryland
GROUND WATER CONTOURS
Scale: 1"= 200'

APPENDIX G

MONITORING WELL DIAGRAMS

Monitoring Well Construction — Pond 1

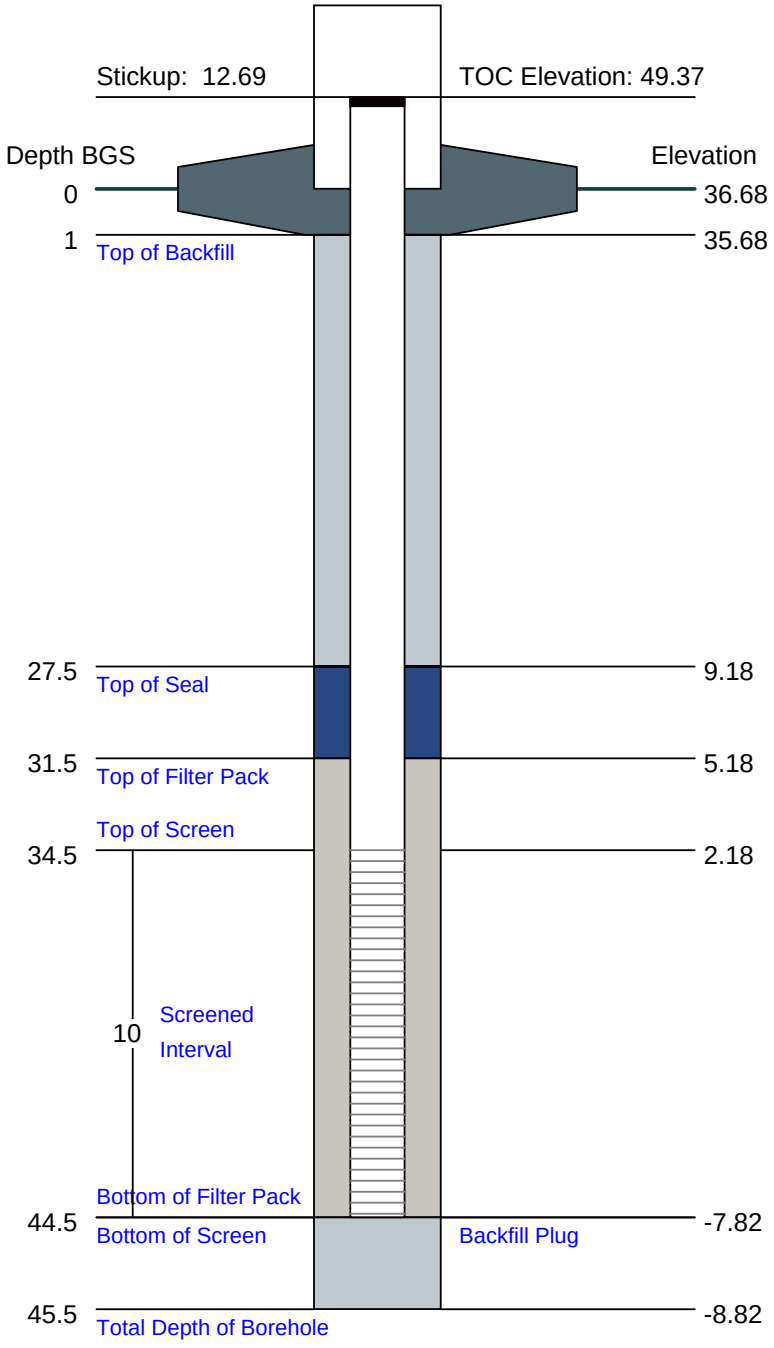
Name R.B. Baker _Sons	Description Surface Water	Well Owner R.B. Baker _Sons	Location Use Observation
Geographic Location MElevation Method Other Surveyed	Client Ted Baker	Installation Start Date	Installation End Date
Characteristics	Northing 0	Easting 0	Datum MSL
Contractor Century Engineering	Driller		Drilling Method
Project R.B. Baker _Sons	Project Number 94063.00		



Pad	
Pad Type	
Protection	
Casing Material	
Well Borehole Diameter	
Casing Diameter	
Filter Pack	
Seal	
Backfill	
Plug	
Screen	
Guard Posts	
Development	
Installed By	
Logged By	
Surface Flush Mount	☐
Lock	☐

Monitoring Well Construction — W-14

Name R.B. Baker _Sons	**Description** Compliance Well	**Well Owner** R.B. Baker _Sons	**Location Use** Observation
Geographic Location MElevation Method Surveyed — Surveyed	**Client** Ted Baker	**Installation Start Date** 6/2/1998	**Installation End Date** 6/2/1998
Characteristics	**Northing** 426107	**Easting** 1.04626e+006	**Datum** MSL
Contractor Giles Engineering	**Driller** Giles Engineering		**Drilling Method** Auger
Project R.B. Baker _Sons	**Project Number** 94063.00		

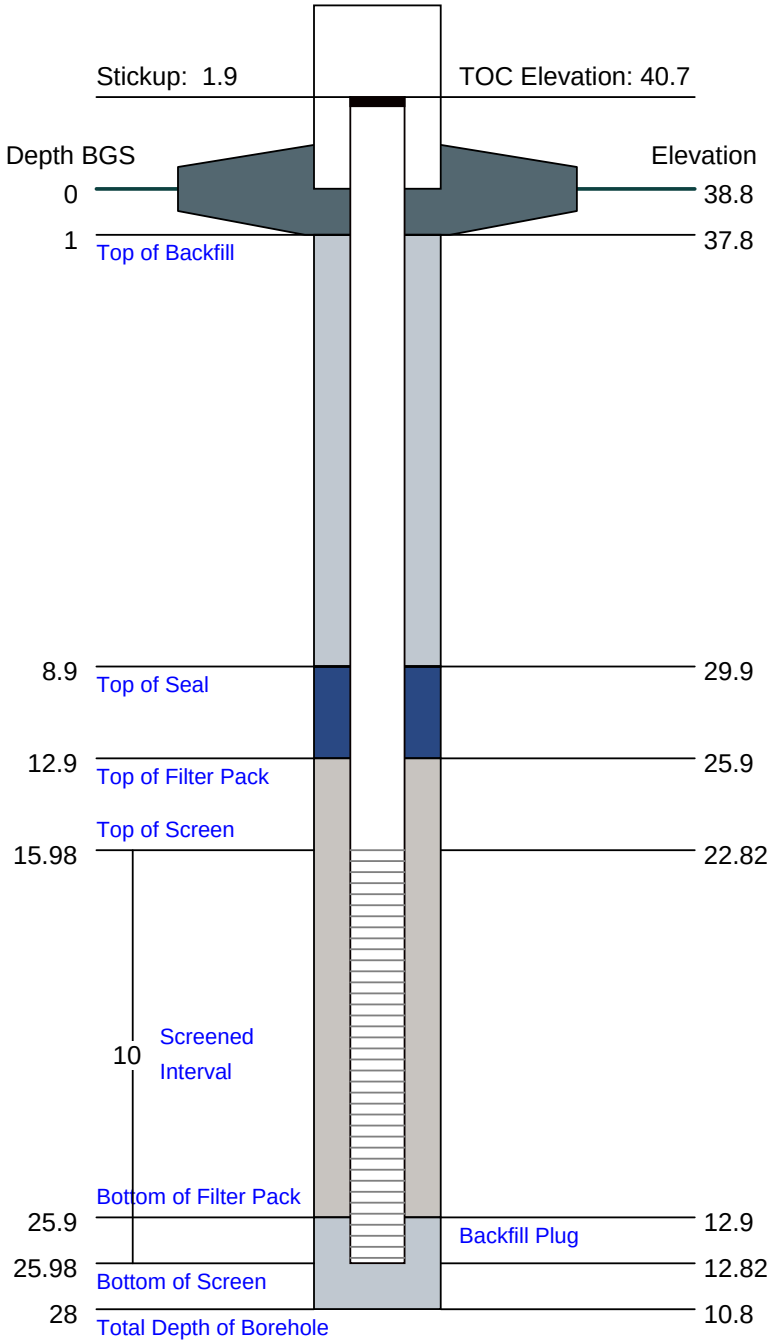


Pad	Concrete
Pad Type	square
Protection	Steel
Casing Material	PVC
Well Borehole Diameter	8"
Casing Diameter	4"
Filter Pack	Gravel
Seal	Bentonite
Backfill	Benontite/Cement Grout
Plug	Bentonite
Screen	PVC
Guard Posts	wood
Development	
Installed By	Giles Engineering
Logged By	Dixon Wood
Surface Flush Mount	☐
Lock	☒

Monitoring Well Construction

W-3

Name R.B. Baker _Sons	**Description** Compliance Well	**Well Owner** R.B. Baker _Sons	**Location Use** Observation
Geographic Location MElevation Method Surveyed Surveyed	**Client** Ted Baker	**Installation Start Date** 9/19/1990	**Installation End Date** 9/19/1990
Characteristics	**Northing** 426900	**Easting** 1.04581e+006	**Datum** MSL
Contractor J.E. Fritts and Sons	**Driller** J.E. Fritts and Sons		**Drilling Method** Auger
Project R.B. Baker _Sons	**Project Number** 94063.00		

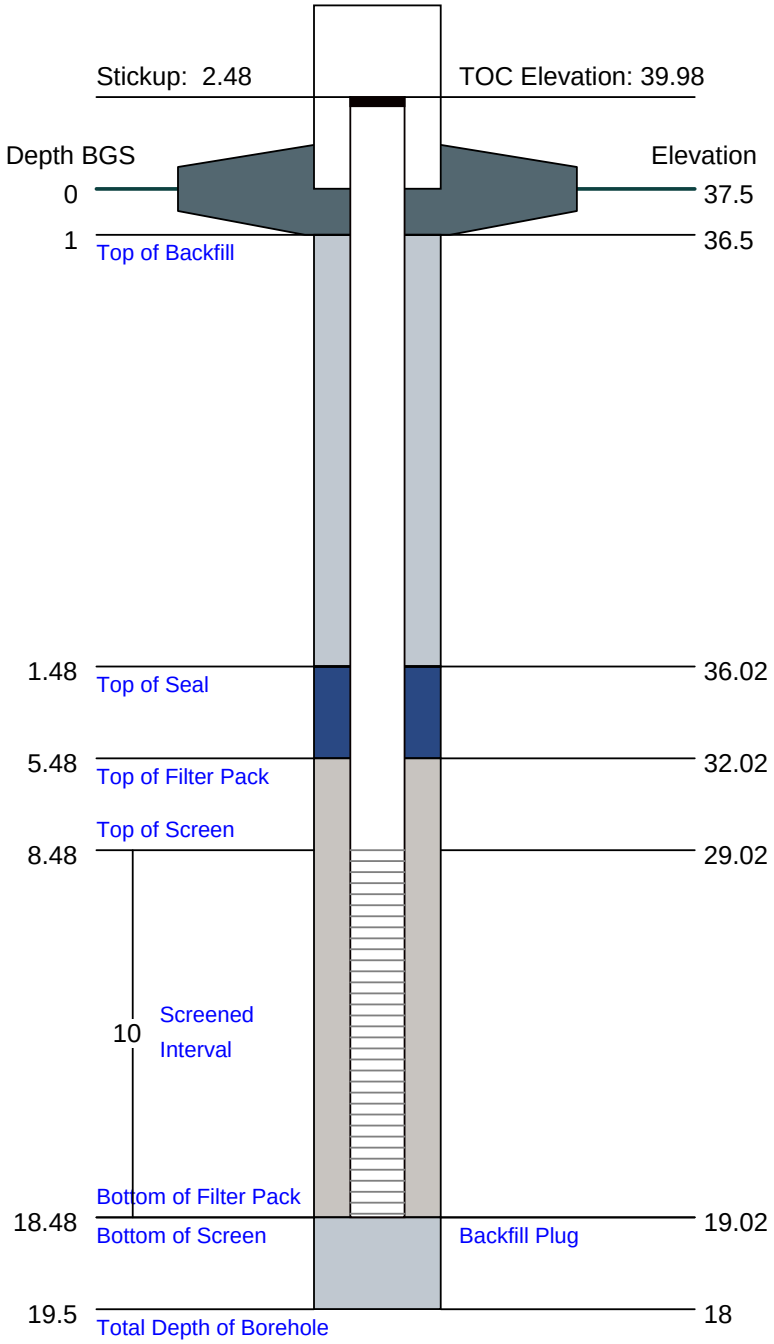


Pad Concrete
Pad Type square
Protection Steel
Casing Material PVC
Well Borehole Diameter 8"
Casing Diameter 4"
Filter Pack Gravel
Seal Bentonite
Backfill Benontite/Cement Grout
Plug Bentonite
Screen PVC
Guard Posts wood
Development Surge
Installed By J.E. Fritts and Sons
Logged By Dixon Wood
Surface Flush Mount ☐
Lock ☒

Monitoring Well Construction

W-4

Name R.B. Baker _Sons	**Description** Compliance Well	**Well Owner** R.B. Baker _Sons	**Location Use** Observation
Geographic Location MElevation Method Surveyed Surveyed	**Client** Ted Baker	**Installation Start Date** 9/19/1990	**Installation End Date** 9/19/1990
Characteristics	**Northing** 426697	**Easting** 1.046e+006	**Datum** MSL
Contractor J.E. Fritts and Sons	**Driller** J.E. Fritts and Sons		**Drilling Method** Auger
Project R.B. Baker _Sons	**Project Number** 94063.00		

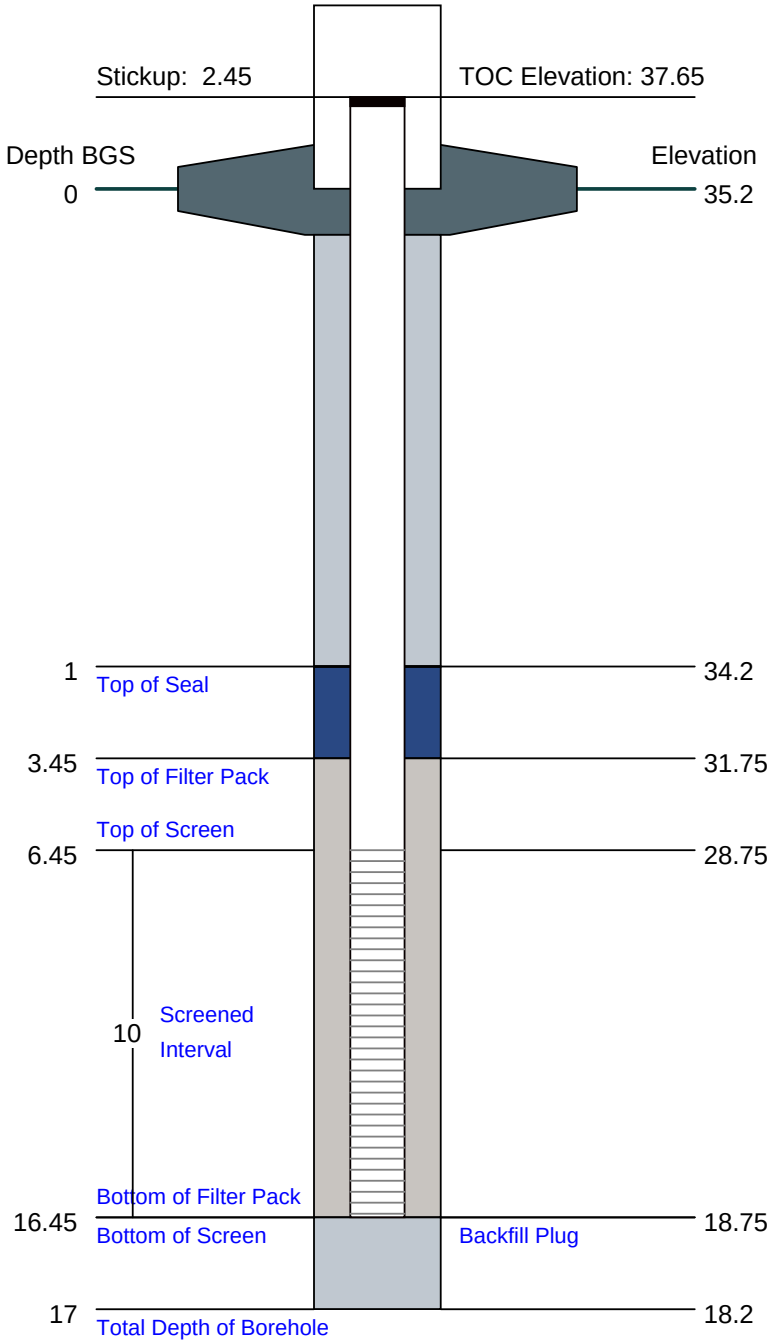


Pad Concrete
Pad Type square
Protection Steel
Casing Material PVC
Well Borehole Diameter 8"
Casing Diameter 4"
Filter Pack Gravel
Seal Bentonite
Backfill Benontite/Cement Grout
Plug Bentonite
Screen PVC
Guard Posts wood
Development Surge
Installed By J.E. Fritts and Sons
Logged By Dixon Wood
Surface Flush Mount ☐
Lock ☒

Monitoring Well Construction

W-5

Name R.B. Baker _Sons	**Description** Compliance Well	**Well Owner** R.B. Baker _Sons	**Location Use** Observation
Geographic Location MElevation Method Surveyed Surveyed	**Client** Ted Baker	**Installation Start Date** 9/20/1990	**Installation End Date** 9/20/1990
Characteristics	**Northing** 426485	**Easting** 1.04613e+006	**Datum** MSL
Contractor J.E. Fritts and Sons	**Driller** J.E. Fritts and Sons		**Drilling Method** Auger
Project R.B. Baker _Sons	**Project Number** 94063.00		



Pad Concrete
Pad Type square
Protection Steel
Casing Material PVC
Well Borehole Diameter 8"
Casing Diameter 4"
Filter Pack Gravel
Seal Bentonite
Backfill Benontite/Cement Grout
Plug Bentonite
Screen PVC
Guard Posts wood
Development Surge
Installed By J.E. Fritts and Sons
Logged By Dixon Wood
Surface Flush Mount ☐
Lock ☒

Monitoring Well Construction W-6

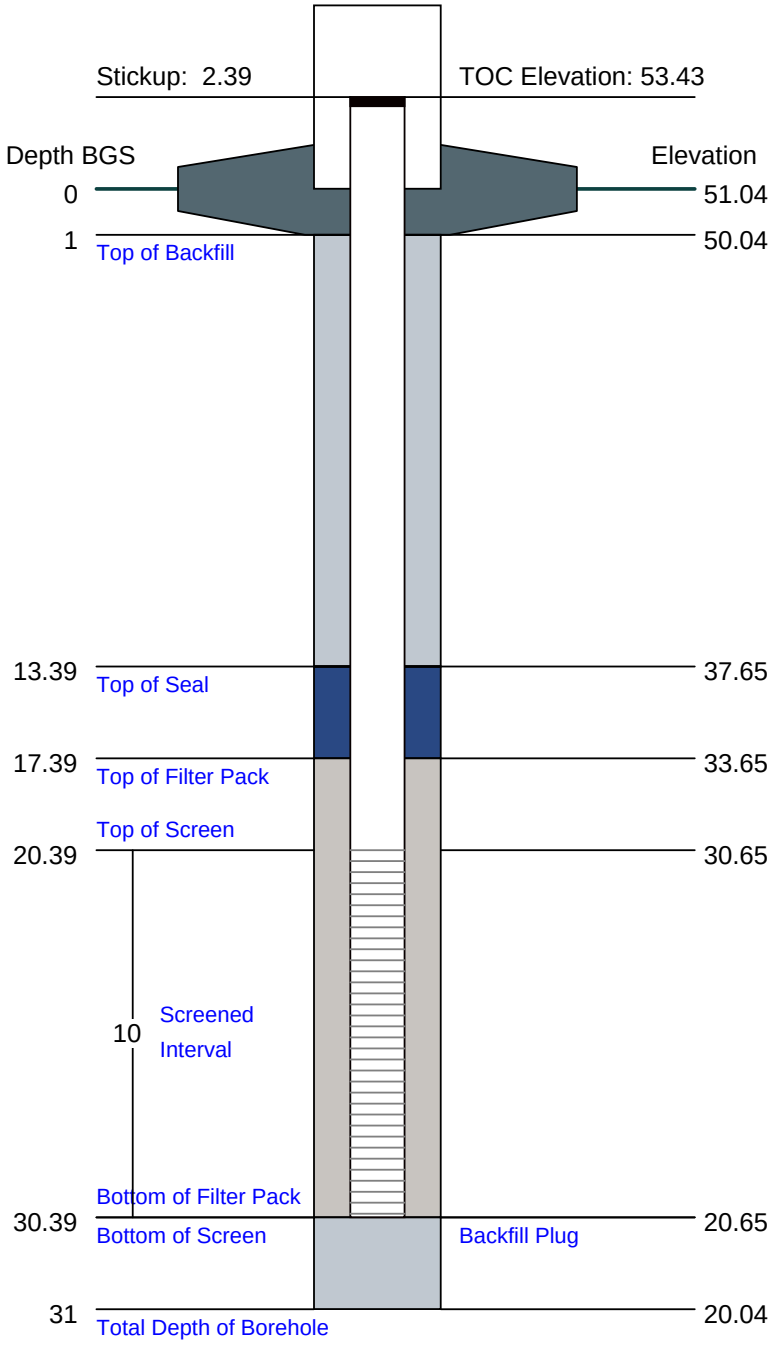
Name	Description	Well Owner	Location Use
R.B. Baker _Sons	Compliance Well	R.B. Baker _Sons	Observation

Geographic Location	MElevation Method	Client	Installation Start Date	Installation End Date
Surveyed	Surveyed	Ted Baker	10/26/1994	10/26/1994

Characteristics	Northing	Easting	Datum
	427450	1.04726e+006	MSL

Contractor	Driller	Drilling Method
J.E. Fritts and Sons	J.E. Fritts and Sons	Auger

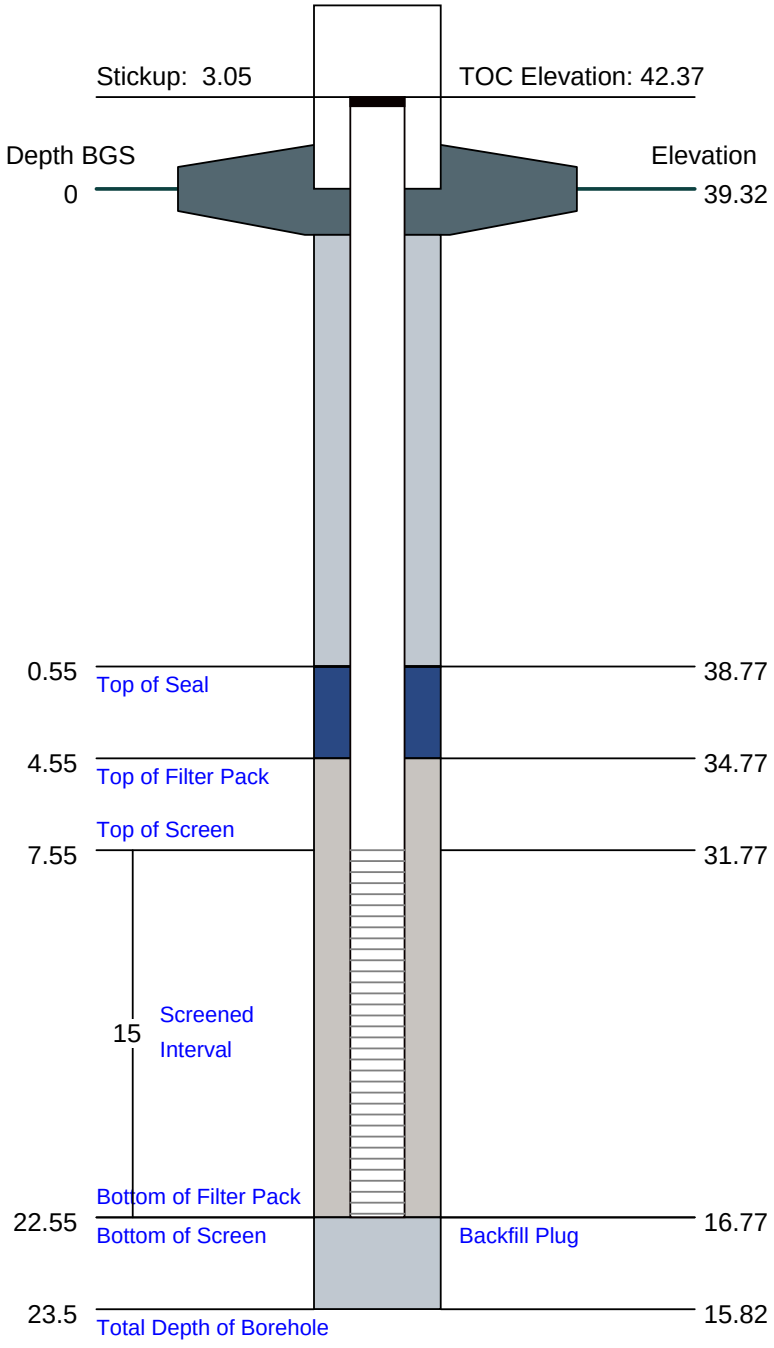
Project	Project Number
R.B. Baker _Sons	94063.00



Pad	Concrete
Pad Type	square
Protection	Steel
Casing Material	PVC
Well Borehole Diameter	8"
Casing Diameter	4"
Filter Pack	Gravel
Seal	Bentonite
Backfill	Benontite/Cement Grout
Plug	Bentonite
Screen	PVC
Guard Posts	wood
Development	Surge
Installed By	J.E. Fritts and Sons
Logged By	Dixon Wood
Surface Flush Mount	☐
Lock	☒

Monitoring Well Construction W-7

Name R.B. Baker _Sons	**Description** Compliance Well	**Well Owner** R.B. Baker _Sons	**Location Use** Observation
Geographic Location Surveyed / **MElevation Method** Surveyed	**Client** Ted Baker	**Installation Start Date** 10/25/1994	**Installation End Date** 10/25/1994
Characteristics	**Northing** 427030	**Easting** 1.04716e+006	**Datum** MSL
Contractor J.E. Fritts and Sons	**Driller** J.E. Fritts and Sons		**Drilling Method** Auger
Project R.B. Baker _Sons	**Project Number** 94063.00		

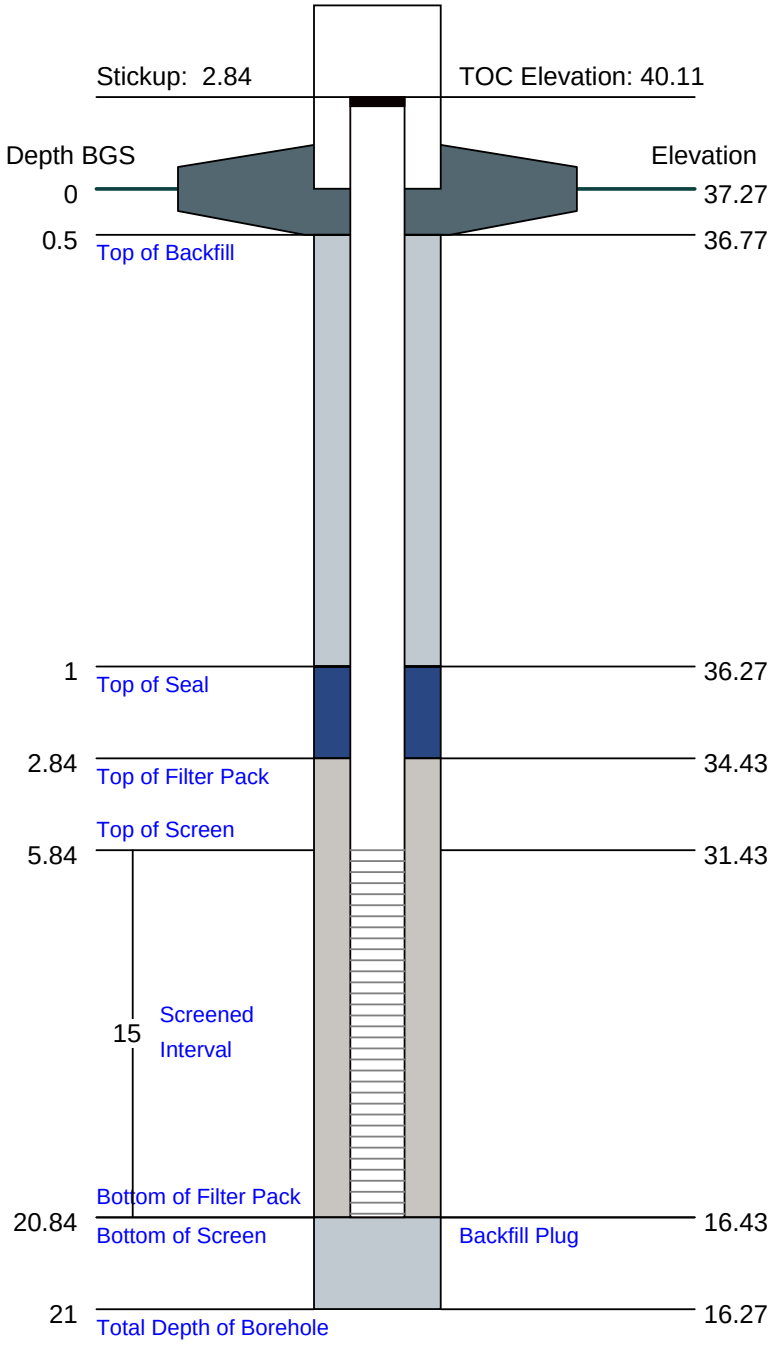


Pad Concrete
Pad Type square
Protection Steel
Casing Material PVC
Well Borehole Diameter 8"
Casing Diameter 4"
Filter Pack Gravel
Seal Bentonite
Backfill Benontite/Cement Grout
Plug Bentonite
Screen PVC
Guard Posts wood
Development Surge
Installed By J.E. Fritts and Sons
Logged By Dixon Wood
Surface Flush Mount ☐
Lock ☒

Monitoring Well Construction

W-8

Name R.B. Baker _Sons	**Description** Compliance Well	**Well Owner** R.B. Baker _Sons	**Location Use** Observation
Geographic Location MElevation Method Surveyed Surveyed	**Client** Ted Baker	**Installation Start Date** 10/25/1994	**Installation End Date** 10/25/1994
Characteristics	**Northing** 426669	**Easting** 1.04712e+006	**Datum** MSL
Contractor J.E. Fritts and Sons	**Driller** J.E. Fritts and Sons		**Drilling Method** Auger
Project R.B. Baker _Sons	**Project Number** 94063.00		

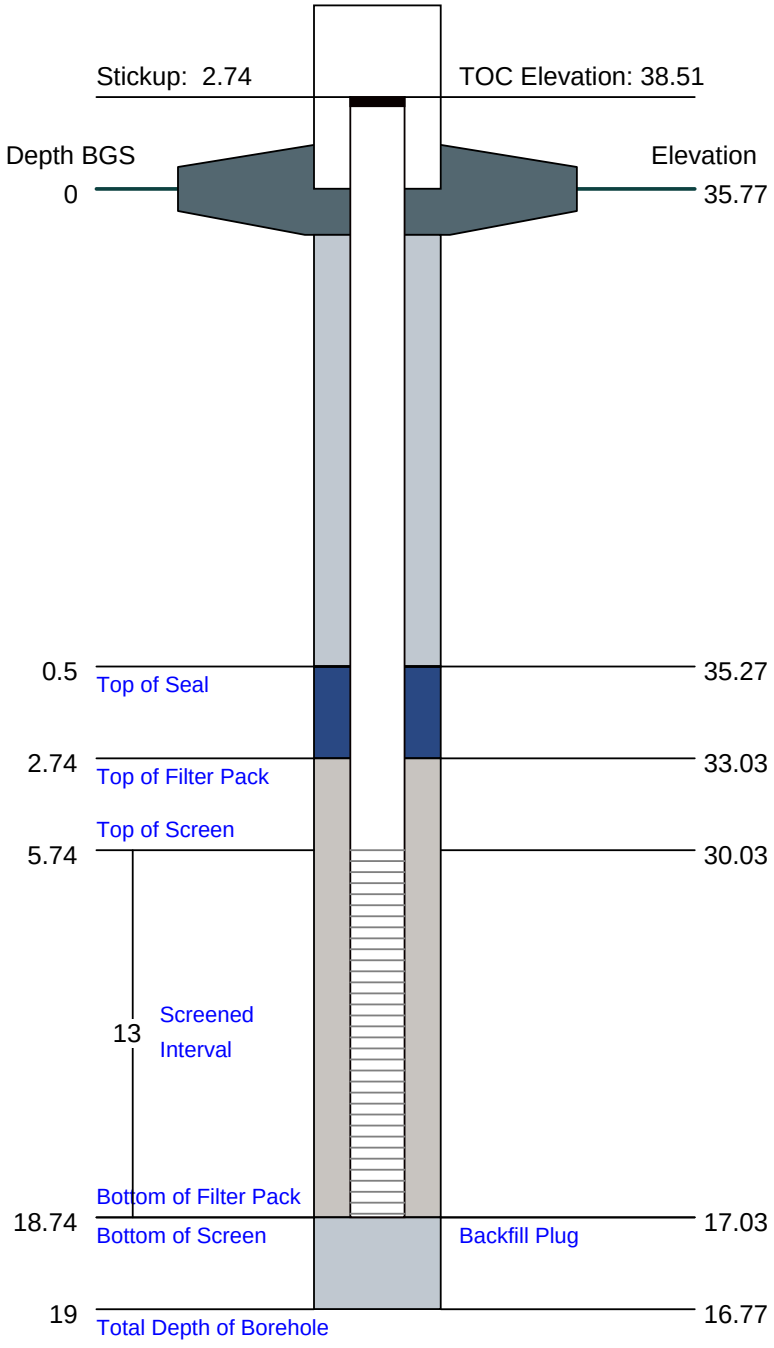


Pad Concrete
Pad Type square
Protection Steel
Casing Material PVC
Well Borehole Diameter 8"
Casing Diameter 4"
Filter Pack Gravel
Seal Bentonite
Backfill Benontite/Cement Grout
Plug Bentonite
Screen PVC
Guard Posts wood
Development Surge
Installed By J.E. Fritts and Sons
Logged By Dixon Wood
Surface Flush Mount ☐
Lock ☒

Monitoring Well Construction

W-9

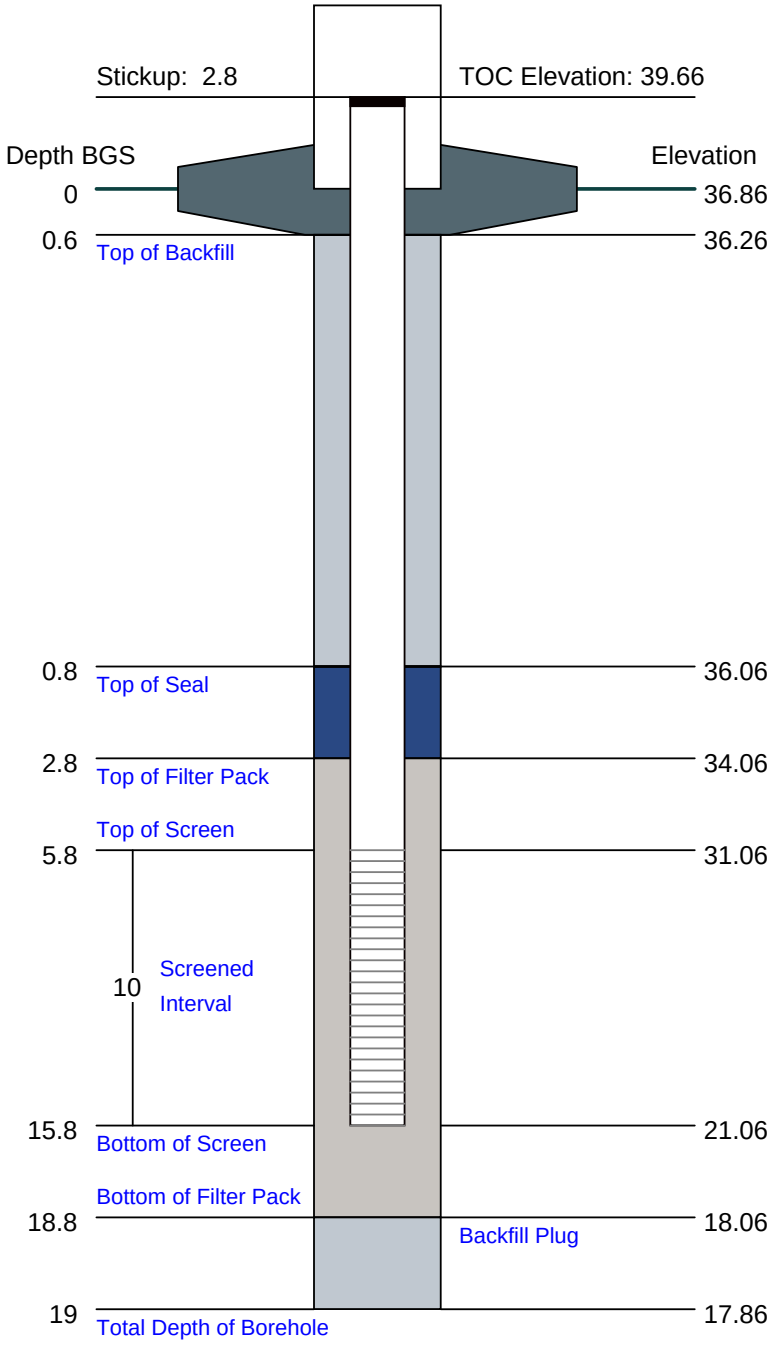
Name R.B. Baker _Sons	**Description** Compliance Well	**Well Owner** R.B. Baker _Sons	**Location Use** Observation
Geographic Location MElevation Method Surveyed Surveyed	**Client** Ted Baker	**Installation Start Date** 10/24/1994	**Installation End Date** 10/25/1994
Characteristics	**Northing** 426650	**Easting** 1.04678e+006	**Datum** MSL
Contractor J.E. Fritts and Sons	**Driller** J.E. Fritts and Sons		**Drilling Method** Auger
Project R.B. Baker _Sons	**Project Number** 94063.00		



Pad Concrete
Pad Type square
Protection Steel
Casing Material PVC
Well Borehole Diameter 8"
Casing Diameter 4"
Filter Pack Gravel
Seal Bentonite
Backfill Benontite/Cement Grout
Plug Bentonite
Screen PVC
Guard Posts wood
Development Surge
Installed By J.E. Fritts and Sons
Logged By Dixon Wood
Surface Flush Mount ☐
Lock ☒

Monitoring Well Construction — W-10

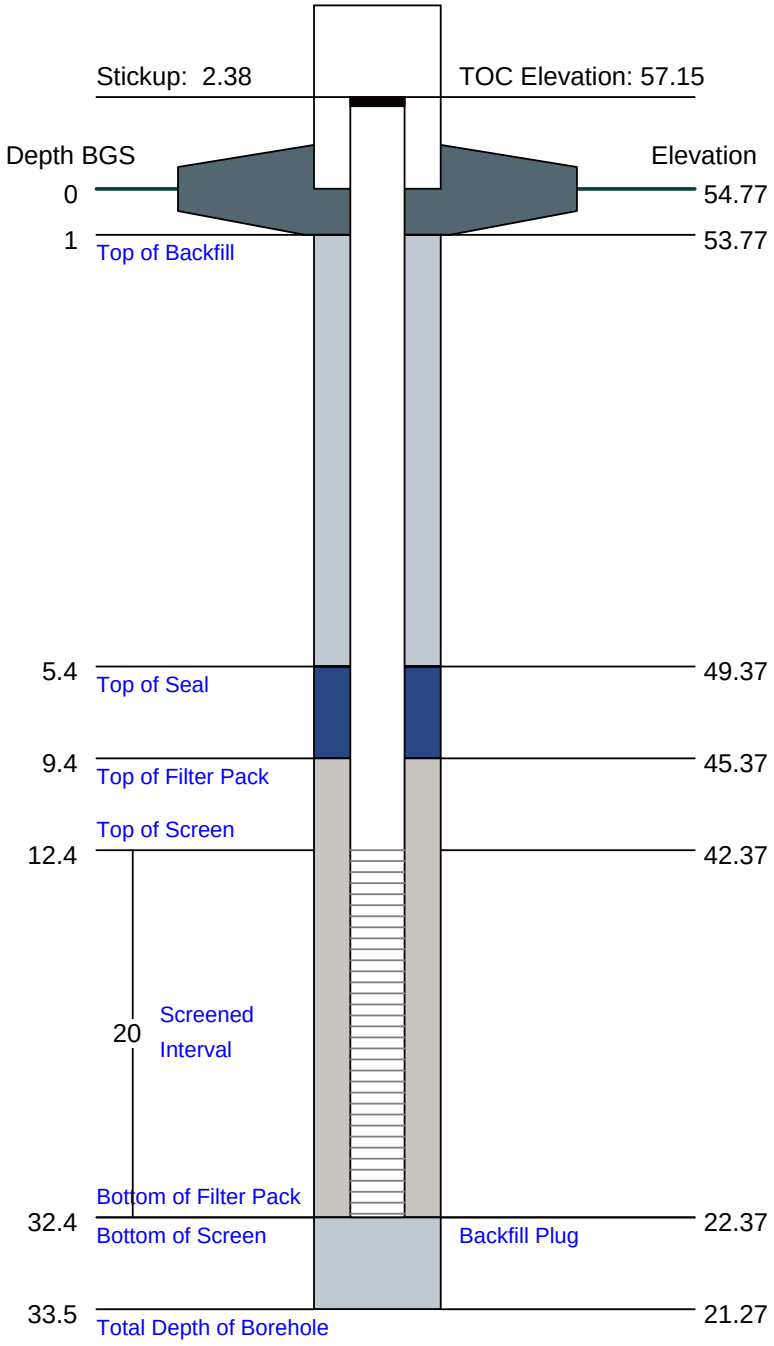
Name R.B. Baker _Sons	**Description** Compliance Well	**Well Owner** R.B. Baker _Sons	**Location Use** Observation
Geographic Location MElevation Method Surveyed — Surveyed	**Client** Ted Baker	**Installation Start Date** 10/24/1994	**Installation End Date** 10/24/1994
Characteristics	**Northing** 426748	**Easting** 1.04661e+006	**Datum** MSL
Contractor J.E. Fritts and Sons	**Driller** J.E. Fritts and Sons		**Drilling Method** Auger
Project R.B. Baker _Sons	**Project Number** 94063.00		



Pad	Concrete
Pad Type	square
Protection	Steel
Casing Material	PVC
Well Borehole Diameter	8"
Casing Diameter	4"
Filter Pack	Gravel
Seal	Bentonite
Backfill	Benontite/Cement Grout
Plug	Bentonite
Screen	PVC
Guard Posts	Wood
Development	Surge
Installed By	J.E. Fritts and Sons
Logged By	Dixon Wood
Surface Flush Mount	☐
Lock	☒

Monitoring Well Construction — W-11

Name R.B. Baker _Sons	**Description** Background Well	**Well Owner** R.B. Baker _Sons	**Location Use** Observation
Geographic Location MElevation Method Surveyed — Surveyed	**Client** Ted Baker	**Installation Start Date** 3/6/1996	**Installation End Date** 3/6/1996
Characteristics	**Northing** 427775	**Easting** 1.04701e+006	**Datum** MSL
Contractor Giles Engineering	**Driller** Giles Engineering		**Drilling Method** Auger
Project R.B. Baker _Sons	**Project Number** 94063.00		



Pad	Concrete
Pad Type	square
Protection	Concrete
Casing Material	PVC
Well Borehole Diameter	8"
Casing Diameter	4"
Filter Pack	Gravel
Seal	Bentonite
Backfill	Benontite/Cement Grout
Plug	Bentonite
Screen	PVC
Guard Posts	Wood
Development	Surge
Installed By	Giles Engineering
Logged By	Dixon Wood
Surface Flush Mount	☐
Lock	☒

Monitoring Well Construction — W-12

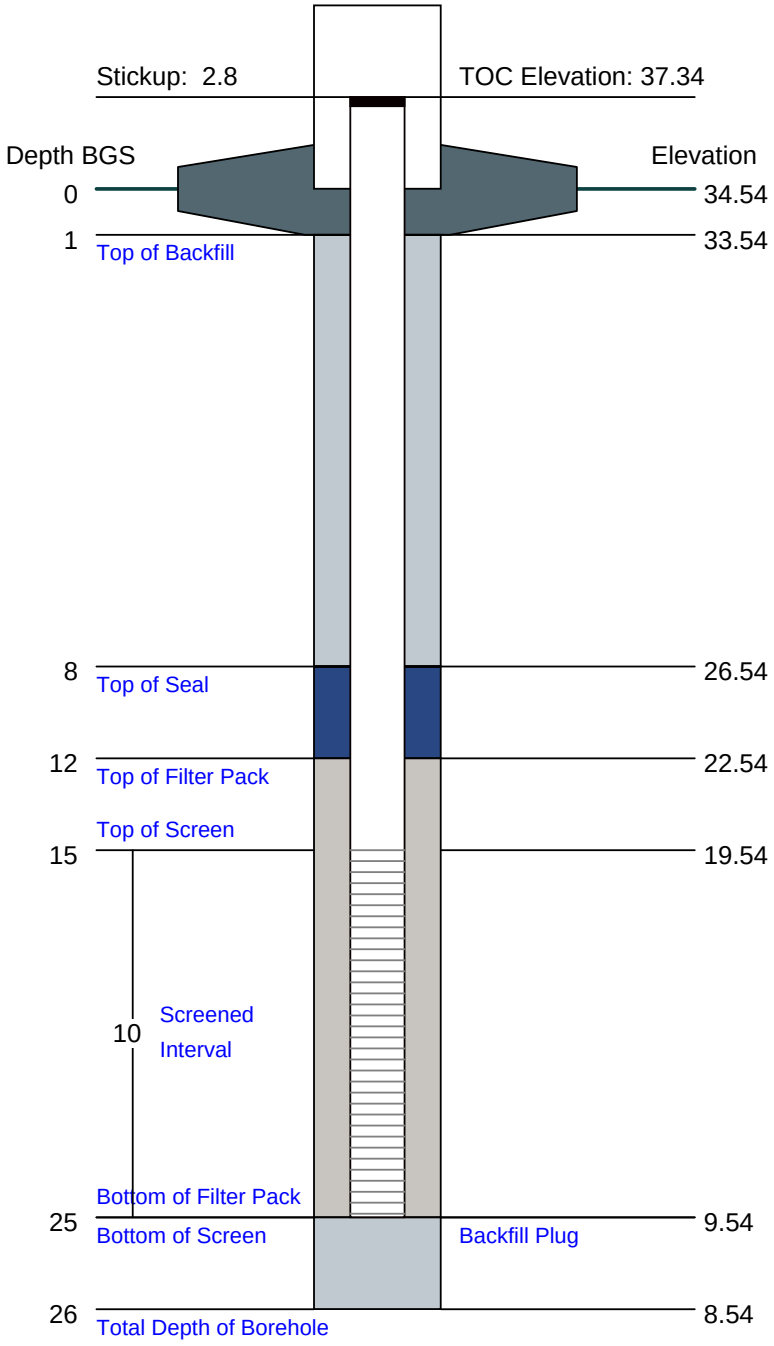
Name	Description	Well Owner	Location Use
R.B. Baker _Sons	Compliance Well	R.B. Baker _Sons	Observation

Geographic Location	MElevation Method	Client	Installation Start Date	Installation End Date
Surveyed	Surveyed	Ted Baker	6/3/1998	6/3/1998

Characteristics	Northing	Easting	Datum
	426028	1.04656e+006	MSL

Contractor	Driller	Drilling Method
Giles Engineering	Giles Engineering	Auger

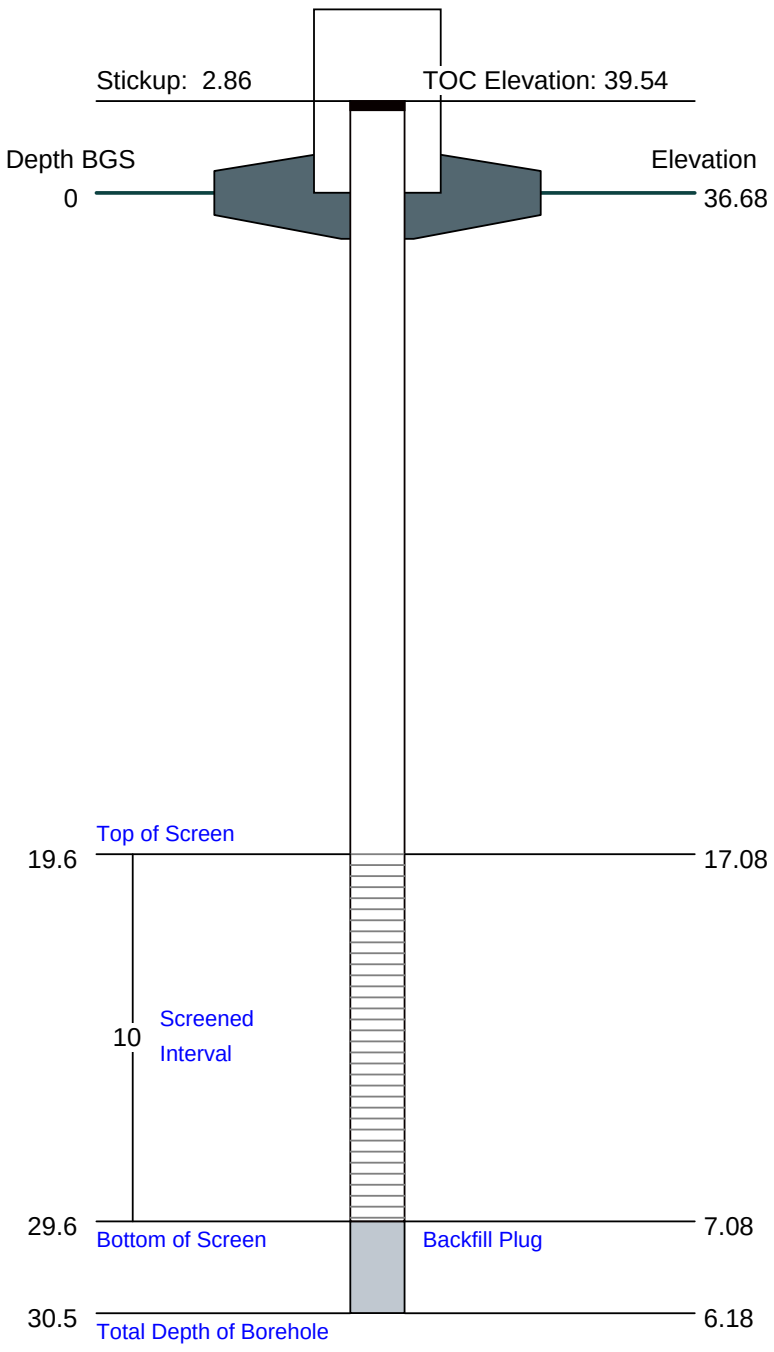
Project	Project Number
R.B. Baker _Sons	94063.00



Pad	Concrete
Pad Type	square
Protection	Steel
Casing Material	PVC
Well Borehole Diameter	8"
Casing Diameter	4"
Filter Pack	Gravel
Seal	Bentonite
Backfill	Benontite/Cement Grout
Plug	Bentonite
Screen	PVC
Guard Posts	Wood
Development	Surge
Installed By	Giles Engineering
Logged By	Dixon Wood
Surface Flush Mount	☐
Lock	☒

Monitoring Well Construction — W-13

Name R.B. Baker _Sons	**Description** Compliance Well	**Well Owner** R.B. Baker _Sons	**Location Use** Observation
Geographic Location MElevation Method Surveyed — Surveyed	**Client** Ted Baker	**Installation Start Date** 6/2/1998	**Installation End Date** 6/2/1998
Characteristics	**Northing** 426107	**Easting** 1.04626e+006	**Datum** MSL
Contractor Giles Engineering	**Driller** Giles Engineering		**Drilling Method** Auger
Project R.B. Baker _Sons	**Project Number** 94063.00		



Pad	Concrete
Pad Type	square
Protection	Steel
Casing Material	PVC
Well Borehole Diameter	8"
Casing Diameter	
Filter Pack	Gravel
Seal	Bentonite
Backfill	Benontite/Cement Grout
Plug	Bentonite
Screen	PVC
Guard Posts	wood
Development	Surge
Installed By	Giles Engineering
Logged By	Dixon Wood
Surface Flush Mount	☐
Lock	☒

Monitoring Well Construction W-15

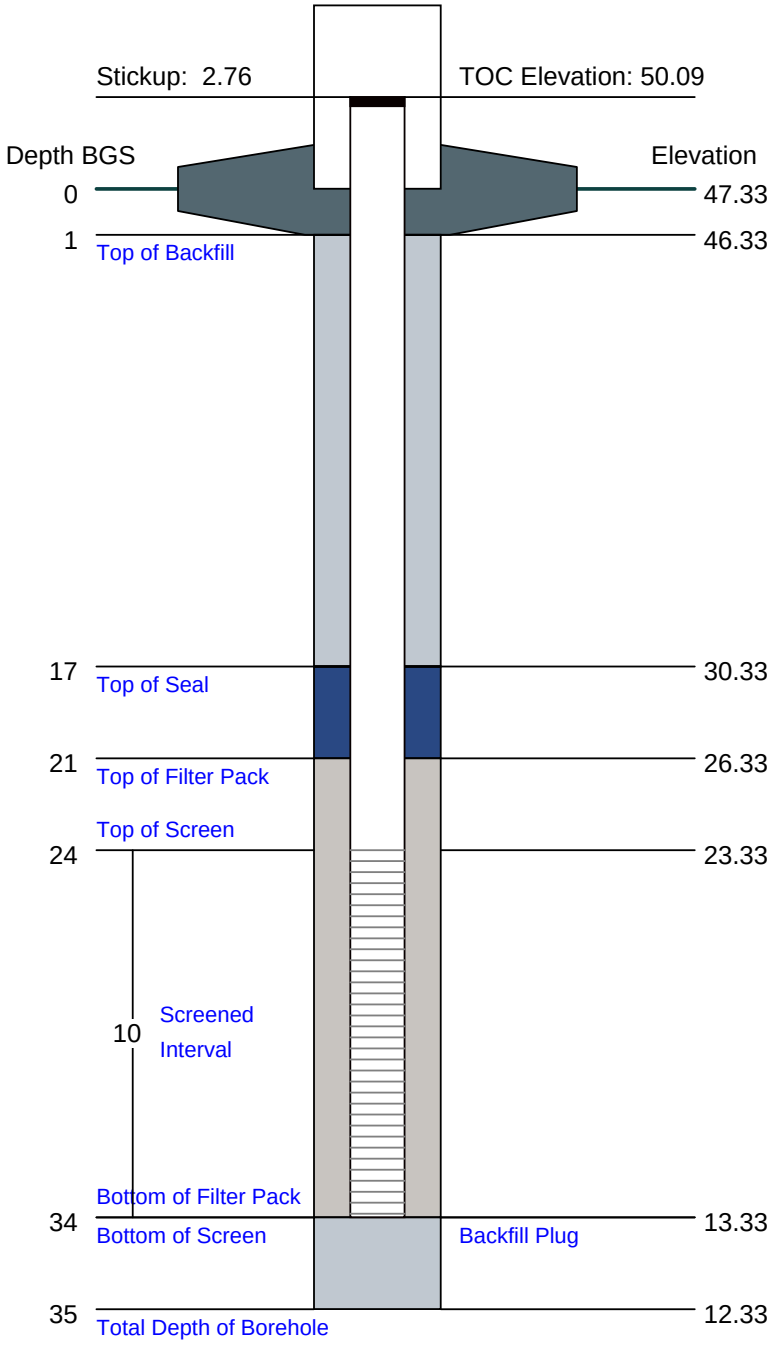
Name	Description	Well Owner	Location Use
R.B. Baker _Sons	Compliance Well	R.B. Baker _Sons	Observation

Geographic Location	MElevation Method	Client	Installation Start Date	Installation End Date
Surveyed	Surveyed	Ted Baker	6/1/1998	6/1/1998

Characteristics	Northing	Easting	Datum
	426688	1.04559e+006	MSL

Contractor	Driller	Drilling Method
Giles Engineering	Giles Engineering	Auger

Project	Project Number
R.B. Baker _Sons	94063.00



Pad Concrete
Pad Type square
Protection Steel
Casing Material PVC
Well Borehole Diameter 8"
Casing Diameter 4"
Filter Pack Gravel
Seal Bentonite
Backfill Benontite/Cement Grout
Plug Bentonite
Screen PVC
Guard Posts wood
Development Surge
Installed By Giles Engineering
Logged By Dixon Wood
Surface Flush Mount ☐
Lock ☒

APPENDIX H

MONTHLY LEACHATE REMOVAL READINGS

2nd HALF 2020

RB Baker Monthly Leachate Readings

Date	Leachate Collected (Gallons)	Total Leachate (Gallons)
January 05	228,000	228,000
February 05	168,000	396,000
March 05	240,000	636,000
April 05	420,000	1,056,000
May 05	378,000	1,434,000
June 05	360,000	1,794,000
July 05	228,000	2,022,000
August 05	246,000	2,268,000
September 05	108,000	2,376,000
October 05	210,000	2,586,000
November 05	186,000	2,772,000
December 05	228,000	3,000,000
January 06	318,000	3,318,000
February 06	186,000	3,504,000
March 06	108,000	3,612,000
April 06	84,000	3,696,000
May 06	144,000	3,840,000
June 06	552,000	4,392,000
July 06	924,000	5,316,000
August 06	228,000	5,544,000
September 06	552,000	6,096,000
October 06	936,000	7,032,000
November 06	948,000	7,980,000
December 06	492,000	8,472,000
January 07	444,000	8,916,000
February 07	192,000	9,108,000
March 07	360,000	9,468,000
April 07	450,000	9,918,000
May 07	252,000	10,170,000
June 07	144,000	10,314,000
July 07	108,000	10,422,000
August 07	90,000	10,512,000
September 07	54,000	10,566,000
October 07	78,000	10,644,000
November 07	108,000	10,752,000
December 07	96,000	10,848,000
January 08	162,000	11,010,000
February 08	240,000	11,250,000
March 08	246,000	11,496,000
April 08	156,000	11,652,000
May 08	516,000	12,168,000
June 08	354,000	12,522,000
July 08	174,000	12,696,000
August 08	114,000	12,810,000
September 08	108,000	12,918,000
October 08	90,000	13,008,000
November 08	72,000	13,080,000
December 08	240,000	13,320,000
January 09	343,000	13,663,000
February 09	162,000	13,825,000
March-09	156,000	13,981,000

RB Baker Monthly Leachate Readings

Date	Leachate Collected (Gallons)	Total Leachate (Gallons)
April-09	276,000	14,257,000
May-09	350,500	14,607,500
June-09	456,000	15,063,500
July-09	258,000	15,321,500
August-09	216,000	15,537,500
September 09	336,000	15,873,500
October 09	324,000	16,197,500
November 09	708,000	16,905,500
December 09	858,000	17,763,500
January 10	810,000	18,573,500
February 10	630,000	19,203,500
March 10	900,000	20,103,500
April 10	522,000	20,625,500
May 10	294,000	20,919,500
June 10	222,000	21,141,500
July 10	198,000	21,339,500
August 10	198,000	21,537,500
September 10	168,000	21,705,500
October 10	234,000	21,939,500
November 10	192,000	22,131,500
December 10	156,000	22,287,500
January 11	120,000	22,407,500
February 11	120,000	22,527,500
March 11	150,000	22,677,500
April 11	162,000	22,839,500
May 11	114,000	22,953,500
June 11	132,000	23,085,500
July 11	120,000	23,205,500
August 11	132,000	23,337,500
September 11	324,000	23,661,500
October 11	324,000	23,985,500
November 11	186,000	24,171,500
December 11	228,000	24,399,500
January 12	228,000	24,627,500
February 12	150,000	24,777,500
March 12	144,000	24,921,500
April 12	120,000	25,041,500
May 12	126,000	25,167,500
June 12	132,000	25,299,500
July 12	108,000	25,407,500
August 12	180,000	25,587,500
September 12	180,000	25,767,500
October 12	162,000	25,929,500
November 12	354,000	26,283,500
December 12	228,000	26,511,500
January 13	192,000	26,703,500
February 13	138,000	26,841,500
March 13	156,000	26,997,500
April 13	192,000	27,189,500
May 13	162,000	27,351,500
June 13	198,000	27,549,500

RB Baker Monthly Leachate Readings

Date	Leachate Collected (Gallons)	Total Leachate (Gallons)
July 13	150,000	27,699,500
August 13	204,000	27,903,500
September 13	156,000	28,059,500
October 13	144,000	28,203,500
November 13	126,000	28,329,500
December 13	150,000	28,479,500
January 14	186,000	28,665,500
February 14	186,000	28,851,500
March 14	204,000	29,055,500
April 14	216,000	29,271,500
May 14	216,000	29,487,500
June 14	198,000	29,685,500
July 14	192,000	29,877,500
August 14	234,000	30,111,500
September 14	234,000	30,345,500
October 14	210,000	30,555,500
November 14	198,000	30,753,500
December 14	234,000	30,987,500
January 15	258,000	31,245,500
February 15	294,000	31,539,500
March 15	366,000	31,905,500
April 15	354,000	32,259,500
May 15	252,000	32,511,500
June15	246,000	32,757,500
July 15	333,000	33,090,500
August 15	246,000	33,336,500
September 15	192,000	33,528,500
October 15	204,000	33,732,500
November 15	168,000	33,900,500
December 15	180,000	34,080,500
January 16	252,000	34,332,500
February 16	318,000	34,650,500
March 16	318,000	34,968,500
April 16	198,000	35,166,500
May 16	246,000	35,412,500
June16	276,000	35,688,500
July17	282,000	35,970,500
August 16	228,000	36,198,500
September 16	246,000	36,444,500
October 16	306,000	36,750,500
November 16	216,000	36,966,500
December 16	162,000	37,128,500
January 17	176,000	37,304,500
February 17	162,000	37,466,500
March 17	168,000	37,634,500
April 17	186,000	37,820,500
May 17	180,000	38,000,500
June 17	216,000	38,216,500
July 17	180,000	38,396,500
August 17	306,000	38,702,500
September 17	264,000	38,966,500

RB Baker Monthly Leachate Readings

Date	Leachate Collected (Gallons)	Total Leachate (Gallons)
October 17	210,000	39,176,500
November 17	174,000	39,350,500
December 17	162,000	39,512,500
January 18	150,000	39,662,500
February 18	324,000	39,986,500
March 18	426,000	40,412,500
April 18	324,000	40,736,500
May 18	378,000	41,114,500
June 18	480,000	41,594,500
July 18	378,000	41,972,500
August 18	426,000	42,398,500
September 18	324,000	42,722,500
October 18	492,000	43,214,500
November 18	612,000	43,826,500
December 18	570,000	44,396,500
January 19	762,000	45,158,500
February 19	540,000	45,698,500
March 19	756,000	46,454,500
April 19	588,000	47,042,500
May 19	576,000	47,618,500
June 19	498,000	48,116,500
July 19	420,000	48,536,500
August 19	330,000	48,866,500
September 19	228,000	49,094,500
October 19	174,000	49,268,500
November 19	168,000	49,436,500
December 19	204,000	49,640,500
January 20	306,000	49,946,500
February 20	372,000	50,318,500
March 20	402,000	50,720,500
April 20	366,000	51,086,500
May 20	444,000	51,530,500
June 20	330,000	51,860,500
July 20	246,000	52,106,500
August 20	402,000	52,508,500
September 20	558,000	53,066,500
October 20	582,000	53,648,500
November 20	666,000	54,314,500

TO: ELIZABETH

FROM: TED BAKER

DATE: 12-9-2020

SUBJECT: LEACHATE

LEACHATE COLLECTED AND DISPOSED OF BY MONTH

MONTH	QUANTIY
JUNE 2020	330,000 GAL.
JULY "	246,000 "
AUG. "	402,000 "
SEPT. "	558,000 "
OCT. "	582,000 "
NOV. 2020	666,000 "

Month/Year:

Jun-20

Day	AM Level	PM Level	Light Check
1	13.3		
2	11.5		
3	10		
4	13.7		
5	8.3		
6	18.2		
7			
8	13.9		
9	18.9		
10	13.9		
11	9.8		
12	19.8		
13	16.4		
14			
15	22.5		
16	12.4		
17	19.4		
18	13.1		
19	18.3		
20	12.9		
21	11		
22	13.5		
23	12.6		
24	15.3		
25	18.9		
26	9.1		
27	15.3		
28			
29	17.7		
30	17.7		

Month/Year:

Jul-20

Day	Light Check	AM Level	PM Level
1	18.6		
2	14.8		
3			
4			
5			
6	19.9		
7	17.8		
8	18.6		
9	15.7		
10			
11			
12			
13	19.6		
14	18.1		
15	13.2		
16	17.9		
17	15.3		
18			
19			
20	9.6		
21	18.4		
22	15.3		
23	12.6		
24	17.9		
25			
26			
27	15.9		
28	17.1		
29	16.3		
30	19.4		
31	10		

Month/Year:

Aug-20

Day	Light Check	AM Level	PM Level
1			
2			
3	11.3		
4	11.5		
5	12.9		
6	12.5		
7	16.1		
8			
9			
10	15		
11	17.2		
12	16.1		
13	12.2		
14	18.1		
15	19.4		
16			
17	34.1		
18	16.1		
19	23.7		
20	17.2		
21	19.4		
22			
23			
24	14.6		
25	14.6		
26	9.1		
27	18.4		
28	15.9		
29			
30			
31	9.3		

Month/Year:

Sep-20

Day	Light Check	AM Level	PM Level
1	9.3		
2	12.5		
3	11.8		
4	13.5		
5			
6			
7			
8	21		
9	14.2		
10	12.5		
11	18.2		
12			
13			
14	17.9		
15	11.5		
16	16.7		
17	13.1		
18	17.2		
19			
20			
21	8.9		
22	18.4		
23	15.3		
24	16.7		
25	15.3		
26			
27			
28	9.8		
29	13.2		
30	12.9		
31			

Month/Year:

Oct-20

Day	Light Check	AM Level	PM Level
1	14.3		
2	12.2		
3			
4			
5	27.5		
6	19		
7	16.7		
8	35.6		
9	11.5		
10			
11			
12	18.9		
13	13.5		
14	13.9		
15	16.1		
16	15.5		
17			
18			
19	17.7		
20	19.4		
21	11.5		
22	15.5		
23	12.9		
24			
25			
26	13.1		
27	12.4		
28	12.9		
29	13.9		
30	14.1		
31			

Month/Year:

Nov-20

Day	Light Check	AM Level	PM Level
1			
2	35.6		
3	9.8		
4	13.7		
5	22.3		
6	19.8		
7			
8			
9	45.1		
10	33.2		
11	20		
12	9.8		
13	18.6		
14			
15			
16	13.3		
17	18.2		
18	12.9		
19	16.1		
20			
21			
22			
23	8.9		
24	12.9		
25	18.3		
26			
27	11.3		
28			
29			
30	19.4		
31			

APPENDIX I

QUARTERLY GAS CONCENTRACTION READINGS

2nd HALF 2020

RB Baker and Sons Landfill Gas Monitoring Log

Date: 22-Jan-20 Technician: FRM

Starting Temp (^oF): 27 Starting Barometric Pressure: 30.34

End Temp (^oF): 32 Ending Barometric Pressure: 30.36

Monitoring Equipment: GM 2000

Gas Probe ID	Time of Reading	% Methane (CH_4)	% Carbon Dioxide (CO_2)	% Oxygen (O_2)	% Balance Gas	Static Pressure (In. H_2O)	Comments
GP -1	8:20 AM	0.0	1.6	19.3	79.1	0.0	
GP -2	8:35 AM	0.0	1.4	19.6	79.0	0.0	
GP -3	9:35 AM	0.0	1.1	19.9	79.0	0.0	
GP -4	8:55 AM	0.0	0.9	19.6	79.5	0.0	
GP -5	8:50 AM	0.0	0.0	20.6	79.4	0.0	
GP -6	9:15 AM	0.0	2.6	18.6	78.8	0.0	
GP -7	8:45 AM	0.0	3.0	18.8	78.2	0.0	
Leachate Tankroom	9:45 AM	0.0	0.0	20.1	79.9	0.0	
Control Shed	8:00 AM	0.0	0.0	20.3	79.7	0.0	

RB Baker and Sons Landfill Gas Monitoring Log

Date: 8-Apr-20 Technician: FRM

Starting Temp (^oF): 75 Starting Barometric Pressure: 29.49

End Temp (^oF): 77 Ending Barometric Pressure: 29.49

Monitoring Equipment: GM 2000

Gas Probe ID	Time of Reading	% Methane (CH_4)	% Carbon Dioxide (CO_2)	% Oxygen (O_2)	% Balance Gas	Static Pressure (In. H_2O)	Comments
GP -1	1:35 PM	0.0	0.0	20.4	79.6	0.0	
GP -2	2:30 PM	0.0	1.3	19.3	79.2	0.0	
GP -3	2:50 PM	0.0	0.1	20.9	79.0	0.0	
GP -4	2:45 PM	0.0	4.3	15.2	80.5	0.0	
GP -5	2:10 PM	0.0	5.5	16.3	78.2	0.0	
GP -6	2:20 PM	0.0	3.5	17.2	79.3	0.0	
GP -7	1:50 PM	0.0	3.3	17.8	78.9	0.0	
Leachate Tankroom	1:30 PM	0.0	0.0	20.9	79.1	0.0	
Control Shed	3:00 PM	0.0	0.0	20.5	79.5	0.0	

RB Baker and Sons Landfill Gas Monitoring Log

Date: 24-Jul-20 Technician: FRM

Starting Temp (^oF): 77 Starting Barometric Pressure: 29.93

End Temp (^oF): 83 Ending Barometric Pressure: 29.93

Monitoring Equipment: GM 2000

Gas Probe ID	Time of Reading	% Methane (CH_4)	% Carbon Dioxide (CO_2)	% Oxygen (O_2)	% Balance Gas	Static Pressure (In. H_2O)	Comments
GP -1	8:10 AM	0.0	1.7	19.3	79.0	0.0	
GP -2	9:05 AM	0.0	0.9	20.0	79.1	0.0	
GP -3	9:40 AM	0.0	0.0	20.6	79.4	0.0	
GP -4	9:30 AM	0.0	3.0	17.1	79.9	0.0	
GP -5	8:35 AM	0.0	6.1	16.0	77.9	0.0	
GP -6	8:45 AM	0.0	4.9	15.4	79.7	0.0	
GP -7	8:25 AM	0.0	5.2	16.2	78.6	0.0	
Leachate Tankroom	8:00 AM	0.0	0.0	20.0	80.0	0.0	
Control Shed	7:50 AM	0.0	0.0	20.9	79.1	0.0	

RB Baker and Sons Landfill Gas Monitoring Log

Date: 8-Oct-20 Technician: FRM

Starting Temp (^oF): 57 Starting Barometric Pressure: 30.03

End Temp (^oF): 68 Ending Barometric Pressure: 30.03

Monitoring Equipment: GM 2000

Gas Probe ID	Time of Reading	% Methane (CH_4)	% Carbon Dioxide (CO_2)	% Oxygen (O_2)	% Balance Gas	Static Pressure (In. H_2O)	Comments
GP -1	8:20 AM	0.0	2.2	18.0	79.8	0.0	
GP -2	9:10 AM	0.0	2.5	18.9	78.6	0.0	
GP -3	9:50 AM	0.0	0.5	20.4	79.1	0.0	
GP -4	9:40 AM	0.0	6.7	15.6	77.7	0.0	
GP -5	8:45 AM	0.0	7.2	15.8	77.0	0.0	
GP -6	8:55 AM	0.0	4.3	18.0	77.7	0.0	
GP -7	8:35 AM	0.0	3.5	17.5	79.0	0.0	
Leachate Tankroom	8:10 AM	0.0	0.0	21.0	79.0	0.0	
Control Shed	8:00 AM	0.0	0.0	21.3	78.7	0.0	

R.B. Baker Historical Methane Results (Control Shed)

Date	% Methane (CH4)	% Carbon Dioxide (Co2)	% Oxygen (o2)	% Balance Gas	Static Pressure in H2o
9/18/2008	0.1	0.1	20.2	79.7	0.0
1/29/2009	0.1	0.0	20.5	79.5	0.0
4/30/2009	0.0	0.1	20.6	79.3	0.0
7/23/2009	0.0	0.0	20.1	79.9	0.0
11/4/2009	0.0	0.1	21.0	79.8	0.0
1/25/2010	0.0	0.0	21.0	79.8	0.0
4/29/2010	0.0	0.0	22.0	78.0	0.0
7/29/2010	0.0	0.0	21.2	78.8	0.0
11/2/2010	0.0	0.1	21.3	78.6	0.0
2/3/2011	0.0	0.0	21.5	78.5	0.0
5/3/2011	0.0	0.1	20.7	79.1	0.0
7/28/2011	0.0	0.0	20.4	78.6	0.0
11/1/2011	0.0	0.1	21.1	78.7	0.0
1/31/2012	0.0	0.1	21.5	78.4	0.0
4/30/2012	0.0	0.1	22.0	79.7	0.0
6/18/2012	0.0	0.0	20.3	77.8	0.0
11/6/2012	0.0	0.0	20.7	79.3	0.0
1/29/2013	0.0	0.1	20.2	79.8	0.0
4/30/2013	0.0	0.0	20.7	79.3	0.0
7/30/2013	0.0	7.9	14.0	78.1	0.0
10/30/2013	0.0	0.0	20.2	79.8	0.0
1/27/2014	0.0	0.0	22.2	77.8	0.0
5/5/2014	0.0	0.0	19.8	80.2	0.0
7/10/2014	0.0	0.0	20.2	79.8	0.0
10/10/2014	0.0	0.2	21.1	78.7	0.0
1/8/2015	0.0	0.1	20.5	79.4	0.0
4/9/2015	0.0	0.5	19.8	79.7	0.0
7/2/2015	0.0	0.5	18.9	80.6	0.0
11/5/2015	0.0	0	21.2	78.8	0.0
2/11/2016	0.0	0.0	21.0	79.0	0.0
4/8/2016	0.0	0.0	21.2	78.8	0.0
7/21/2016	0.0	0.0	20.6	79.4	0.0
10/18/2016	0.0	0.0	20.7	79.3	0.0
1/19/2017	0.0	0.0	21.3	78.7	0.0
4/21/2017	0.0	0.0	21.3	78.7	0.0
7/21/2017	N/A	N/A	N/A	N/A	N/A
10/26/2017	0.0	0.0	21.0	79.0	0.0
2/1/2018	0.0	0.0	22.6	77.2	0.0
4/12/2018	0.0	0.0	21.9	78.1	0.0
7/13/2018	0.0	0.0	21.1	78.9	0.0
10/18/2018	0.0	0.0	20.7	79.3	0.0
2/7/2019	0.0	0.0	20.7	79.3	0.0
4/24/2019	0.0	0.0	21.3	78.7	0.0
7/3/2019	0.0	0.0	21.1	78.9	0.0
10/29/2019	0.0	0.0	21.2	78.8	0.0
1/22/2020	0.0	0.0	20.3	79.7	0.0
4/8/2020	0.0	0.0	20.5	79.5	0.0
7/24/2020	0.0	0.0	20.9	79.1	0.0
10/8/2020	0.0	0.0	21.3	78.7	0.0

R.B. Baker Historical Methane Results (Tankroom)

Date	% Methane (CH4)	% Carbon Dioxide (Co2)	% Oxygen (o2)	% Balance Gas	Static Pressure in H2o
9/18/2008	0.0	0.1	20.2	79.9	0.0
1/29/2009	0.1	0.9	19.2	79.5	0.0
4/30/2009	0.0	0.1	20.6	79.3	0.0
7/23/2009	0.0	0.0	20.1	79.9	0.0
11/4/2009	0.0	0.2	20.4	69.6	0.0
1/25/2010	0.0	0.0	21.0	79.0	0.0
4/29/2010	0.0	0.0	22.1	77.8	0.0
7/29/2010	0.0	0.0	21.6	78.0	0.0
11/2/2010	0.0	0.0	21.5	78.5	0.0
2/3/2011	0.0	0.0	22.1	77.9	0.0
5/3/2011	0.0	0.0	20.6	79.2	0.0
7/28/2011	0.0	0.0	20.7	78.9	0.0
11/1/2011	0.0	0.0	21.3	78.6	0.0
1/31/2012	0.0	0.0	21.5	78.5	0.0
4/30/2012	0.0	0.1	22.1	77.8	0.0
6/18/2012	0.0	0.0	20.4	79.6	0.0
11/6/2012	0.0	0.0	21.2	78.8	0.0
1/29/2013	0.0	0.0	20.7	79.2	0.0
4/30/2013	0.0	0.0	20.8	79.2	0.0
7/30/2013	0.0	6.2	14.7	79.1	-158.6
10/30/2013	0.0	0.0	21.3	78.7	0.0
1/27/2014	0.0	0.1	22.3	77.6	0.0
5/5/2014	0.0	0.0	22.2	77.8	0.0
7/10/2014	0.0	0.0	22.0	78.0	0.0
10/10/2014	0.0	0.0	21.3	78.7	0.0
1/8/2015	0.0	0.1	21.0	78.9	0.0
4/9/2015	0.0	0.0	20.7	79.3	0.0
7/2/2015	0.0	0.0	20.2	79.8	0.0
11/5/2015	0.1	0.0	21.3	78.6	0.0
2/11/2016	0.0	0.0	20.9	79.1	0.0
4/8/2016	0.0	0.0	21.0	79.0	0.0
7/21/2016	0.0	0.0	20.3	79.7	0.0
10/18/2016	0.0	0.0	20.7	79.3	0.0
1/19/2017	0.0	0.0	21.3	78.7	0.0
4/21/2017	0.0	0.0	21.2	78.8	0.0
7/21/2017	N/A	N/A	N/A	N/A	N/A
10/26/2017	0.0	1.7	20.0	78.3	0.0
2/1/2018	0.0	0.0	22.6	77.2	0.0
4/12/2018	0.0	0.0	21.9	78.1	0.0
7/13/2018	0.0	0.0	21.9	78.1	0.0
10/18/2018	0.0	0.0	21.0	79.0	0.0
2/7/2019	0.0	0.0	21.0	79.0	0.0
4/24/2019	0.0	0.0	21.3	78.7	0.0
7/3/2019	0.0	0.0	21.8	78.2	0.0
10/29/2019	0.0	0.0	21.3	78.7	0.0
1/22/2020	0.0	0.0	20.1	79.9	0.0
4/8/2020	0.0	0.0	20.9	79.1	0.0
7/24/2020	0.0	0.0	20.0	80.0	0.0
10/8/2020	0.0	0.0	21.0	79.0	0.0

R.B. Baker Historical Methane Results (GP-1)

Date	% Methane (CH4)	% Carbon Dioxide (Co2)	% Oxygen (o2)	% Balance Gas	Static Pressure in H2o
9/18/2008	0.1	1.2	18.9	79.9	-0.1
1/29/2009	0.1	0.9	19.2	79.8	0.0
4/30/2009	0.0	0.1	20.5	79.4	0.0
7/23/2009	0.0	2.1	18.6	79.2	0.0
11/4/2009	0.03	0.9	20.9	78.2	0.0
1/25/2010	0.0	0.1	21.2	78.8	0.0
4/29/2010	0.0	0.0	21.9	78.0	0.0
7/29/2010	0.0	0.0	21.8	78.2	0.0
11/2/2010	0.0	0.5	21.3	78.2	0.0
2/3/2011	0.0	0.1	19.2	80.7	0.0
5/3/2011	0.0	0.1	20.5	79.3	0.0
7/28/2011	0.0	0.5	20.8	78.6	0.0
11/1/2011	0.0	1.0	20.8	78.1	0.0
1/31/2012	0.0	0.5	21.5	78.2	0.0
4/30/2012	0.0	0.3	21.9	77.7	0.0
6/18/2012	0.0	3.0	17.7	79.3	0.0
11/6/2012	0.0	0.0	21.2	78.5	0.0
1/29/2013	0.0	0.3	20.4	79.3	0.0
4/30/2013	0.0	1.0	20.1	78.8	0.0
7/30/2013	0.0	0.2	20.2	79.6	-28.2
10/30/2013	0.0	2.9	18.7	78.4	0.0
1/27/2014	0.0	0.1	22.0	77.9	0.0
5/5/2014	0.0	0.0	21.0	79.0	0.0
7/10/2014	0.0	0.0	20.6	79.4	0.0
10/10/2014	0.0	4.0	16.9	79.1	0.0
1/8/2015	0.0	2.0	18.8	79.2	0.0
4/9/2015	0.0	0.2	20.8	79	0.0
7/2/2015	0.0	2.2	18.8	79.0	0.0
11/5/2015	0.0	2.5	19.2	78.3	0.0
2/11/2016	0.0	5.0	21.0	74.0	0.0
4/8/2016	0.0	3.0	18.8	78.2	0.0
7/21/2016	0.0	0.0	20.1	79.9	0.0
10/18/2016	0.0	2.3	18.7	79.0	0.0
1/19/2017	0.0	2.5	19.4	78.1	0.0
4/21/2017	0.0	2.3	17.6	80.1	0.0
7/21/2017	N/A	N/A	N/A	N/A	N/A
10/26/2017	0.0	1.7	20.0	78.3	0.0
2/1/2018	0.0	0.7	21.9	77.2	0.0
4/12/2018	0.0	9.2	8.3	82.5	0.0
7/13/2018	0.0	3.8	18.6	77.6	0.0
10/18/2018	0.0	2.0	19.6	78.4	0.0
2/7/209	0.0	1.2	19.6	79.2	0.0
4/24/2019	0.0	0.0	21.5	78.5	0.0
7/3/2019	0.0	4.8	13.2	82.0	0.0
10/29/2019	0.0	1.4	19.8	78.8	0.0
1/22/2020	0.0	1.6	19.3	79.1	0.0
4/8/2020	0.0	0.0	20.4	79.6	0.0
7/24/2020	0.0	1.7	19.3	79.0	0.0
10/8/2020	0.0	2.2	18.0	79.8	0.0

R.B. Baker Historical Methane Results (GP-2)

Date	% Methane (CH4)	% Carbon Dioxide (Co2)	% Oxygen (o2)	% Balance Gas	Static Pressure in H2o
9/18/2008	0.1	1.1	19.0	79.9	0.0
1/29/2009	0.1	0.9	19.1	79.9	0.0
4/30/2009	0.0	0.1	20.5	79.4	0.0
7/23/2009	0.0	0.9	19.3	79.8	0.0
11/4/2009	0.01	0.5	21.3	78.4	0.0
1/25/2010	0.01	0.8	20.9	79.1	0.0
4/29/2010	0.0	0.8	20.9	78.1	0.0
7/29/2010	0.0	0.8	20.9	78.2	0.1
11/2/2010	0.0	1.2	20.2	78.6	0.0
2/3/2011	1.1	0.8	20.5	77.6	0.0
5/3/2011	0.0	1.2	19.2	79.4	0.0
7/28/2011	0.0	1.0	20.6	78.2	0.0
11/1/2011	0.0	1.5	20.0	78.4	0.0
1/31/2012	0.0	3.8	17.8	78.3	0.0
4/30/2012	0.0	0.7	20.8	78.4	0.0
6/18/2012	0.0	1.2	19.7	79.1	0.0
11/6/2012	0.0	5.7	18.4	75.9	0.0
1/29/2013	0.0	0.9	19.8	79.2	0.0
4/30/2013	0.0	1.3	19.8	78.9	0.0
7/30/2013	0.0	1.9	19.1	79.0	0.0
10/30/2013	0.0	1.3	20.2	78.5	0.0
1/27/2014	0.0	0.1	21.9	78.0	0.0
5/5/2014	0.0	1.3	19.9	78.8	0.0
7/10/2014	0.0	1.0	20.4	78.6	0.0
10/10/2014	0.0	1.3	19.6	79.1	0.0
1/8/2015	0.0	0.9	19.6	79.1	0.0
4/9/2015	0.0	1.3	20.1	78.6	0.0
7/2/2015	0.0	1.8	20.0	78.2	0.0
11/5/2015	0.0	0.7	20.6	78.7	0.0
2/11/2016	0.0	2.5	18.0	79.5	0.0
4/8/2016	0.0	3.2	19.2	77.6	0.0
7/21/2016	0.0	2.1	18.5	79.4	0.0
10/18/2016	0.0	1.8	19.3	78.9	0.0
1/19/2017	0.1	1.4	20.5	78.1	0.0
4/21/2017	0.0	1.5	20.1	78.4	0.0
7/21/2017	N/A	N/A	N/A	N/A	N/A
10/26/2017	0.0	1.1	20.3	78.6	0.0
2/1/2018	0.0	0.8	21.6	77.3	0.0
4/12/2018	0.0	5.8	14.1	80.1	0.0
7/13/2018	0.0	1.5	20.3	78.2	0.0
10/18/2018	0.0	7.2	15.2	77.6	0.0
2/7/2019	0.0	0.2	20.4	79.4	0.0
4/24/2019	0.0	1.0	21.5	78.5	0.0
7/3/2019	0.0	1.4	19.9	78.7	0.0
10/29/2019	0.0	0.9	20.3	78.8	0.0
1/22/2020	0.0	1.4	19.6	79.0	0.0
4/8/2020	0.0	1.3	19.3	79.2	0.0
7/24/2020	0.0	0.9	20.0	79.1	0.0
10/8/2020	0.0	2.5	18.9	78.6	0.0

R.B. Baker Historical Methane Results (GP-3)

Date	% Methane (CH4)	% Carbon Dioxide (Co2)	% Oxygen (o2)	% Balance Gas	Static Pressure in H2o
9/18/2008	0.1	0.1	19.7	80.2	0.0
1/29/2009	0.0	0.2	19.4	80.4	0.0
4/30/2009	0.0	0.1	20.6	79.2	0.0
7/23/2009	0.0	0.0	19.9	80.1	0.0
11/4/2009	0.01	0.2	20.7	78.3	0.0
1/25/2010	0.0	0.3	20.9	78.9	0.0
4/29/2010	0.0	0.0	21.0	78.9	0.0
7/29/2010	0.0	0.0	20.9	79.1	0.0
11/2/2010	0.0	4.6	16.5	78.9	0.0
2/3/2011	0.1	0.2	21.1	78.6	0.0
5/3/2011	0.0	0.0	20.2	79.6	0.0
7/28/2011	0.0	3.5	21.1	78.3	0.0
11/1/2011	0.0	0.1	21.5	78.2	0.0
1/31/2012	0.1	6.6	12.4	81.0	0.0
4/30/2012	0.0	4.8	15.0	80.1	0.0
6/18/2012	0.0	0.0	20.7	79.3	0.0
11/6/2012	0.0	7.6	13.7	78.6	0.0
1/29/2013	0.0	6.2	12.4	81.3	0.0
4/30/2013	0.0	3.5	19.6	76.9	0.0
7/30/2013	0.0	6.8	15.2	78.1	0.0
10/30/2013	0.0	0.0	21.3	78.7	0.0
1/27/2014	0.0	0.0	19.0	81.0	0.0
5/5/2014	0.0	1.4	19.7	78.9	0.0
7/10/2014	0.1	3.5	16.5	79.5	0.0
10/10/2014	0.0	1.6	19.5	78.9	0.0
1/8/2015	0.0	1.8	19.4	78.8	0.0
4/9/2015	0.0	1.6	19.4	79.0	0.0
7/2/2015	0.0	4.6	18.4	77.0	0.0
11/5/2015	0.0	0.6	20.5	78.9	0.0
2/11/2016	0.0	1.5	18.5	80.0	0.0
4/8/2016	0.0	2.2	18.0	79.8	0.0
7/21/2016	0.0	10.8	4.5	84.7	0.0
10/18/2016	0.0	5.0	15.6	79.4	0.0
1/19/2017	0.0	7.0	20.2	72.8	0.0
4/21/2017	0.0	0.8	20.2	79.0	0.0
7/21/2017	N/A	N/A	N/A	N/A	N/A
10/26/2017	0.0	4.2	17.6	78.2	0.0
2/1/2018	0.0	0.1	22.1	77.6	0.0
4/12/2018	0.0	10.5	13.0	76.5	0.0
7/13/2018	0.0	4.1	17.1	78.8	0.0
10/18/2018	0.0	4.8	16.3	78.9	0.0
2/7/2019	0.0	2.8	17.7	79.5	0.0
4/24/2019	0.0	0.0	21.3	78.7	0.0
7/3/2019	0.0	5.9	14.3	79.7	0.0
10/29/2019	0.0	2.0	19.6	78.4	0.0
1/22/2020	0.0	1.1	19.9	79.0	0.0
4/8/2020	0.0	0.1	20.9	79.0	0.0
7/24/2020	0.0	0.0	20.6	79.4	0.0
10/8/2020	0.0	0.5	20.4	79.1	0.0

R.B. Baker Historical Methane Results (GP-4)

Date	% Methane (CH4)	% Carbon Dioxide (Co2)	% Oxygen (o2)	% Balance Gas	Static Pressure in H2o
9/18/2008	0.1	0.4	12.2	80.2	0.0
1/29/2009	0.1	3.4	16.4	80.1	0.0
4/30/2009	0.0	0.1	29.6	79.3	0.0
7/23/2009	0.0	2.6	17.6	79.6	0.0
11/4/2009	0.04	2.3	19.4	78.7	0.0
1/25/2010	0.0	0.7	21.0	79.6	0.0
4/29/2010	0.0	2.7	20.1	78.2	0.0
7/29/2010	0.0	0.1	21.1	78.8	0.0
11/2/2010	0.0	9.5	11.0	79.5	0.0
2/3/2011	0.0	2.9	16.4	80.7	0.0
5/3/2011	0.0	9.0	7.8	83.6	0.0
7/28/2011	Well could not be unlocked				
11/1/2011	0.0	9.5	11.3	79.0	0.1
1/31/2012	Well could not be unlocked				
4/30/2012	0.0	5.5	13.4	80.9	0.0
6/18/2012	0.0	4.7	15.0	80.3	0.0
11/6/2012	0.0	4.2	15.9	79.9	0.0
1/29/2013	0.0	10.0	10.1	79.9	0.0
4/30/2013	0.0	6.6	12.0	81.4	0.0
7/30/2013	0.0	7.8	14.4	77.8	0.0
10/30/2013	0.0	8.6	14.0	77.4	0.0
1/27/2014	0.0	3.5	18.4	78.1	0.0
5/5/2014	0.0	3.1	18.8	78.1	0.0
7/10/2014	0.0	3.1	16.7	80.2	0.0
10/10/2014	0.0	13.0	6.7	80.3	0.0
1/8/2015	0.0	7.5	17.0	75.5	0.0
4/9/2015	0.0	4.6	9.8	85.6	0.0
7/2/2015	0.0	5.4	10.2	84.4	0.0
11/5/2015	0.0	5.0	15.3	79.6	0.0
2/11/2016	0.0	0.7	21.2	78.1	0.0
4/8/2016	0.0	1.2	21.0	77.8	0.0
7/21/2016	0.0	3.0	17.1	79.9	0.0
10/18/2016	0.0	8.6	13.8	77.6	0.0
1/19/2017	0.0	3.1	19.3	77.6	0.0
4/21/2017	0.0	6.4	13.8	79.8	0.0
7/21/2017	N/A	N/A	N/A	N/A	N/A
10/26/2017	0.0	5.2	17.0	77.8	0.0
2/1/2018	0.0	3.9	18.5	77.3	0.0
4/12/2018	0.0	2.5	18.9	78.6	0.0
7/13/2018	0.0	4.8	15.7	79.5	0.0
10/18/2018	0.0	2.6	16.7	80.7	0.0
2/7/2019	0.0	0.1	20.8	79.1	0.0
4/24/2019	0.0	4.3	13.4	82.3	0.0
7/3/2019	0.0	4.5	17.2	78.3	0.0
10/29/2019	0.0	1.8	18.6	79.6	0.0
1/22/2020	0.0	0.9	19.6	79.5	0.0
4/8/2020	0.0	4.3	15.2	80.5	0.0
7/24/2020	0.0	3.0	17.1	79.9	0.0
10/8/2020	0.0	6.7	15.6	77.7	0.0

R.B. Baker Historical Methane Results (GP-5)

Date	% Methane (CH4)	% Carbon Dioxide (Co2)	% Oxygen (o2)	% Balance Gas	Static Pressure in H2o
9/18/2008	0.1	1.2	19.7	80.2	0.0
1/29/2009	0.1	0.7	20.1	79.1	0.0
4/30/2009	0.0	0.1	20.6	79.4	0.0
7/23/2009	0.0	5.7	15.1	79.2	0.0
11/4/2009	0.03	6.0	16.6	69.9	0.0
1/25/2010	0.0	6.5	15.9	78.3	0.0
4/29/2010	0.0	0.1	21.0	78.8	0.1
7/29/2010	0.0	6.0	17.6	76.3	0.0
11/2/2010	0.1	3.8	17.8	78.3	0.0
2/3/2011	0.0	0.8	18.0	81.2	0.0
5/3/2011	0.0	0.4	20.0	79.4	0.2
7/28/2011	0.0	1.2	21.2	77.5	0.0
11/1/2011	0.1	3.8	17.8	78.3	0.0
1/31/2012	0.1	0.5	20.2	79.2	0.0
4/30/2012	0.0	7.2	16.4	76.3	0.0
6/18/2012	0.0	6.3	15.5	78.2	0.0
11/6/2012	0.0	7.8	15.6	76.5	0.0
1/29/2013	0.0	6.3	15.2	78.4	0.0
4/30/2013	0.0	0.0	21.1	78.9	0.0
7/30/2013	0.0	0.0	20.6	79.4	-0.1
10/30/2013	0.0	1.2	20.1	78.7	0.0
1/27/2014	0.0	0.0	21.5	78.5	0.0
5/5/2014	0.0	0.1	20.9	79.0	0.0
7/10/2014	0.0	0.0	21.0	79.0	0.0
10/10/2014	0.0	0.2	20.5	79.3	0.0
1/8/2015	0.0	0.2	21.0	78.8	0.0
4/9/2015	0.0	0.8	20.3	78.9	0.0
7/2/2015	0.0	0.0	20.5	79.5	0.0
11/5/2015	0.1	5.7	15.0	79.2	0.0
2/11/2016	0.0	2.5	20.5	77.0	0.0
4/8/2016	0.0	3.5	19.0	77.5	0.0
7/21/2016	0.0	7.3	13.5	79.2	0.0
10/18/2016	0.1	6.0	14.6	79.4	0.0
1/19/2017	0.0	5.5	17.7	76.8	0.0
4/21/2017	0.0	2.4	19.2	78.4	0.0
7/21/2017	N/A	N/A	N/A	N/A	N/A
10/26/2017	0.0	4.7	18.3	77.0	0.0
2/1/2018	0.0	6.2	17.7	75.9	0.0
4/12/2018	0.0	6.0	14.1	79.9	0.0
7/13/2018	0.0	7.2	14.5	78.3	0.0
10/18/2018	0.0	8.5	16.5	75.0	0.0
2/7/2019	0.0	1.4	18.7	79.9	0.0
4/24/2019	0.0	0.0	21.2	78.8	0.0
7/3/2019	0.0	4.4	15.5	80.1	0.0
10/29/2019	0.0	0.1	20.7	79.2	0.0
1/22/2020	0.0	0.0	20.6	79.4	0.0
4/8/2020	0.0	5.5	16.3	78.2	0.0
7/24/2020	0.0	6.1	16.0	77.9	0.0
10/8/2020	0.0	7.2	15.8	77.0	0.0

R.B. Baker Historical Methane Results (GP-6)

Date	% Methane (CH4)	% Carbon Dioxide (Co2)	% Oxygen (o2)	% Balance Gas	Static Pressure in H2o
9/18/2008	0.1	4.4	16.0	79.4	0.0
1/29/2009	0.1	4.3	18.0	77.7	0.0
4/30/2009	0.0	0.1	20.7	79.2	0.0
7/23/2009	0.0	2.5	17.9	79.6	0.0
11/4/2009	0.0	3.1	18.3	76.4	0.0
1/25/2010	0.0	6.3	12.7	81.1	0.4
4/29/2010	0.0	1.0	20.1	78.8	0.0
7/29/2010	0.0	4.2	12.6	82.9	0.0
11/2/2010	0.0	10.8	11.7	77.5	0.0
2/3/2011	0.1	4.1	16.2	79.6	0.0
5/3/2011	0.0	3.8	16.1	79.7	0.0
7/28/2011	0.0	7.2	14.3	77.8	0.0
11/1/2011	0.0	11.0	12.2	76.8	0.0
1/31/2012	0.0	7.1	12.6	80.3	0.0
4/30/2012	0.0	2.0	19.3	78.6	0.0
6/18/2012	0.0	5.3	18.2	76.5	0.0
11/6/2012	0.0	5.3	18.2	76.5	0.0
1/29/2013	0.0	2.8	17.2	79.8	0.0
4/30/2013	0.0	0.0	21.1	78.9	0.0
7/30/2013	0.0	1.2	20.0	78.8	0.0
10/30/2013	0.0	2.5	20.0	77.5	0.0
1/27/2014	0.0	0.0	21.5	78.5	0.0
5/5/2014	0.0	6.6	14.8	78.6	0.0
7/10/2014	0.0	1.0	19.8	78.8	0.0
10/10/2014	0.0	7.6	14.4	78.0	0.0
1/8/2015	0.0	4.2	15.5	80.3	0.0
4/9/2015	0.0	7.6	14.4	78.0	0.0
7/2/2015	0.0	6.2	16.1	77.7	0.0
11/5/2015	0.0	4.8	16.9	78.3	0.0
2/11/2016	0.0	6.2	19.0	74.8	0.0
4/8/2016	0.0	4.0	20.7	75.3	0.0
7/21/2016	0.0	7.2	13.1	79.7	0.0
10/18/2016	0.0	2.2	18.8	79.0	0.0
1/19/2017	0.0	2.8	19.3	77.8	0.0
4/21/2017	0.2	5.0	16.3	78.7	0.0
7/21/2017	N/A	N/A	N/A	N/A	N/A
10/26/2017	0.0	4.5	17.6	77.9	0.0
2/1/2018	0.2	2.6	19.3	78.0	0.0
4/12/2018	0.5	6.5	14.0	79.0	0.0
7/13/2018	0.0	4.0	17.8	78.2	0.0
10/18/2018	0.0	5.1	15.9	79.0	0.0
2/7/2019	0.0	3.0	17.0	80.0	0.0
4/24/2019	0.0	8.8	7.5	83.7	0.0
7/3/2019	0.0	1.2	18.2	80.6	0.0
10/29/2019	0.0	0.1	20.8	79.1	0.0
1/22/2020	0.0	2.6	18.6	78.8	0.0
4/8/2020	0.0	3.5	17.2	79.3	0.0
7/24/2020	0.0	4.9	15.4	79.7	0.0
10/8/2020	0.0	4.3	18.0	77.7	0.0

R.B. Baker Historical Methane Results (GP-7)

Date	% Methane (CH4)	% Carbon Dioxide (Co2)	% Oxygen (o2)	% Balance Gas	Static Pressure in H2o
9/18/2008	0.1	9.4	16.4	80.0	0.0
1/29/2009	0.0	0.0	20.8	79.4	0.0
4/30/2009	0.0	0.1	20.6	79.3	0.0
7/23/2009	0.0	6.3	13.5	79.6	0.0
11/4/2009	0.0	5.4	16.8	77.4	0.0
1/25/2010	0.0	4.0	15.0	80.7	0.0
4/29/2010	0.0	6.4	12.5	81.0	0.0
7/29/2010	0.0	6.0	12.5	81.4	0.0
11/2/2010	0.0	2.8	18.9	78.3	0.0
2/3/2011	0.1	7.5	14.0	78.4	0.0
5/3/2011	0.0	7.2	14.3	78.2	0.0
7/28/2011	0.0	2.8	18.7	78.3	0.0
11/1/2011	0.0	11.6	9.6	78.7	0.0
1/31/2012	0.0	8.7	10.8	80.4	0.0
4/30/2012	0.0	6.6	15.2	78.1	0.0
6/18/2012	0.0	6.5	14.2	79.3	0.0
11/6/2012	0.0	9.7	13.0	77.1	0.0
1/29/2013	0.0	6.8	13.8	79.3	0.0
4/30/2013	0.0	2.7	20.1	78.2	0.0
7/30/2013	0.0	8.5	14.2	77.3	0.0
10/30/2013	0.0	6.6	15.6	77.8	0.0
1/27/2014	0.0	2.6	19.4	78.0	0.0
5/5/2014	0.0	1.3	19.9	78.8	0.0
7/10/2014	0.0	5.5	15.3	79.0	0.0
10/10/2014	0.0	9.2	12.9	77.9	0.0
1/8/2015	0.0	6.1	14.1	79.8	0.0
4/9/2015	0.0	7.1	14.4	78.5	0.0
7/2/2015	0.0	6.8	15.2	78.0	0.0
11/5/2015	0.0	5.0	16.0	79.0	0.0
2/11/2016	0.0	4.0	16.5	79.5	0.0
4/8/2016	0.0	5.0	17.4	77.6	0.0
7/21/2016	0.0	8.7	10.1	81.2	0.0
10/18/2016	0.0	8.8	12.6	78.6	0.0
1/19/2017	0.0	8.2	14.2	77.6	0.0
4/21/2017	0.0	4.7	17.7	77.6	0.0
7/21/2017	N/A	N/A	N/A	N/A	N/A
10/26/2017	0.0	4.5	17.6	77.9	0.0
2/1/2018	0.0	4.5	17.6	77.9	0.0
4/12/2018	0.0	5.7	15.9	78.4	0.0
7/13/2018	0.0	0.0	21.9	78.1	0.0
10/18/2018	0.0	5.0	15.9	79.1	0.0
2/7/2019	0.0	3.8	18.9	77.3	0.0
4/24/2019	0.0	4.5	16.8	78.7	0.0
7/3/2019	0.0	7.8	15.0	77.2	0.0
10/29/2019	0.0	6.2	16.1	77.7	0.0
1/22/2020	0.0	3.0	18.8	78.2	0.0
4/8/2020	0.0	3.3	17.8	78.9	0.0
7/24/2020	0.0	5.2	16.2	78.6	0.0
10/8/2020	0.0	3.5	17.5	79.0	0.0

APPENDIX J

HISTORICAL SAMPLING RESULTS

R. B. Baker & Sons Rubble Landfill
Groundwater Monitoring Test Results
Monitoring Well W-3

Analyte			SA-50	SA-51	SA-52	SA-53	SA-54	SA-55	SA-56	SA-57	SA-58	SA-59	SA-60	SA-61	SA-62	SA-63	SA-64	SA-65	SA-66	SA-67	SA-68	SA-69	SA-70	SA-71	SA-72
Indicators	**Units**	**MCL**	04/28/04	09/07/04	12/06/04	02/08/05	06/13/05	09/21/05	11/14/05	02/01/06	05/16/06	07/20/06	10/19/06	02/21/07	04/30/07	08/02/07	12/20/07	03/17/08	06/24/08	09/30/08	03/10/09	07/17/09	01/29/10	07/30/10	02/17/11
pH	units	6.5-8.5	***6.4***	6.5	7.1	6.6	***6.0***	***6.0***	***5.8***	6.53	***6.30***	***5.50***	***5.50***	***5.00***	***5.53***	***5.63***	6.75	8.20	***NT***	***6.20***	***6.30***	***6.00***	***6.10***	***5.30***	***6.41***
Conductance (Specific)	umhos/cm	NS	680	790	1100	1100	1100	990	910	600	420	1.3	1200	1200	-	420	1300	1000	430	520	650	430	450	410	570
Alkalinity	PPM	NS	290	320	530	410	370	390	440	170	48	560	450	480	88	28	450	340	160	100	230	200	170	150	250
Chloride	PPM	250	48.9	55.4	81.9	59.4	59.5	54.3	54.4	65.4	43.8	75	69.7	61.1	28.9	43.3	110	63	29	43	40	28	20	17	27
Hardness	PPM	NS	340	400	560	460	460	490	450	290	150	690	450	32	200	170	90	96	240	180	290	280	180	170	280
Turbidity	NTU	15	2.8	5.8	4.5	6.1	2.7	8.8	1.0	1.9	3.2	7.1	3.5	1.4	0.1	2.8	8.8	4.5	***80.0***	***32.0***	2.6	1.3	0.9	6.3	3.5
Total Organic Halogen	PPM	NS	0.043	0.076	0.063	0.057	0.025	0.034	0.077	0.039	0.044	0.049	0.053	0.073	0.016	0.014	0.049	0.024	0.026	0.045	ND	<0.02	ND	ND	ND
Total Suspended Solids	PPM	NS	3	4	1	1	2	4	4	3	2	9	5	7	<1	<1	<3	3	9	10	2	2	<1	1	9
Total Dissolved Solids	PPM	500	470	***580***	***790***	***850***	***670***	***700***	***660***	360	250	***1100***	***780***	***760***	310	290	***790***	***630***	210	330	420	360	280	220	380
Chemical Oxygen Demand	PPM	NS	11	20	43	37	43	32	37	<10	<10	76	78	27	<10	<10	29	27	11	<10	16	<10	<10	<10	<10
Sulfate	PPM	250	52.1	53.7	52.5	68.9	63.5	58.3	54.9	35.3	91.2	68.1	69.1	69.2	43.8	103	69	62	17	97	43	33	23	17	*
Nitrate Nitrogen	PPM	10	<0.05	1.3	<0.05	<0.02	<0.05	<0.1	<0.1	0.31	0.59	<0.02	0.13	<0.1	<0.1	0.84	0.21	<0.02	<0.1	0.29	0.34	0.73	0.36	<0.02	<0.02
Nitrate/Nitrite Nitrogen	PPM	NS	<0.02	0.26	<0.05	<0.02	<0.05	<0.1	<0.1	0.31	0.59	<0.03	0.13	<0.1	<0.1	0.84	<0.02	<0.02	<0.02	<0.02	0.34	0.76	NT	<0.02	<0.02
Nitrite Nitrogen	PPM	10	<0.05	<0.05	<0.05	<0.02	<0.05	<0.1	<0.1	<0.1	<0.1	<0.04	<0.1	<0.1	<0.1	<0.1	0.49	<0.02	<0.1	<0.02	<0.02	0.03	<0.02	<0.02	<0.02
Ammonia Nitrogen	PPM	NS	1	0.7	0.5	<0.2	<0.2	0.9	1.7	<0.2	0.3	1.3	1.6	<0.2	<0.2	<0.2	1.1	0.4	0.8	1.2	<0.2	0.6	<0.2	0.7	1.4
Metals																									
Arsenic	PPB	10	<2	4.2	<2	2.6	<2	<2	<2	<2	<2	2.3	<2	2	3	2	3	2	***27***	<2	7	2	4	2	<2
Barium	PPB	2,000	117	110	187	162	140	150	169	160	93	160	130	180	67	88	130	150	88	45	86	75	58	57	89
Cadmium	PPB	5	<0.5	<0.5	<0.5	1.1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3	<0.5	<0.5	4	<0.5	1	<0.5	***23***	<0.5	***20***	0.6	3.5
Calcium	PPB	NS	134,000	140,000	189,000	189,000	180,000	180,000	203,000	81,000	44,000	190,000	160,000	220,000	72,000	48,000	170,000	160,000	52,000	30,000	100,000	76,000	69,000	54,000	74,000
Chromium	PPB	100	3.6	<2	4.2	3.3	<2	18.8	6	2.2	<2	3.2	7	<2	<2	<2	7.40	32	7	<2	<2	<2	<2	<2	4
Copper	PPB	1,000	3.2	2.3	8.3	<2	<2	5.7	6.2	2.9	8.4	2.6	<2	3	<2	4	3	<2	5	<2	<2	<2	<2	<2	<2
Iron	PPB	300	***1110***	***2100***	***1420***	***3170***	***1900***	***375***	***503***	***350***	***390***	***870***	100	***460***	<100	190	***892***	***470***	***21,000***	190	***<50***	290	110	***510***	***590***
Lead	PPB	15	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	13	<2	<2	<2	<2	<2	2	<2	<2	<2	<2	<2	<2
Magnesium	PPB	150,000	6,000	7,300	9,300	7,650	6,200	5,690	5,500	10,000	5,400	21,000	12,000	8,000	3,300	5,500	19,000	6,800	30,000	18,000	5,800	4,600	3,600	2,800	14,000
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Potassium	PPB	NS	3,270	6,900	12,200	3,260	3,600	8,520	14,800	3,100	2,500	11,000	8,000	4,000	1,400	3,400	7,530	8,300	7,200	6,800	5,700	9,700	4,700	3,600	7,200
Selenium	PPB	50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Sodium	PPB	NS	37,300	42,000	50,300	38,000	37,000	35,800	40,500	45,000	17,000	57,000	42,000	48,000	6,100	21,000	50,800	48,000	37,000	26,000	25,000	26,000	17,000	15,000	20,000
Zinc	PPB	5,000	<10	<10	10.9	25.1	21	<10	12.2	63	45	11	<10	18	60	<10	<10	<10	19	<10	120	10	60	<10	31
Volatile Organic Compounds																									
Dichlorodifluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Choroform	PPB		ND	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.71	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	PPB	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichloromethane	PPB		ND	ND	ND	ND	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	PPB	70	ND	ND	1.2	1.1	1.9	1.4	ND	ND	ND	1.7	ND	ND	ND	ND	1.6	ND	ND	1.3	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(m+p) Xylene	PPB	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs	PPB		0	0	1.2	1.1	1.9	3	0	0	0	1.7	0	0	0	0	2.31	0	0	1.3	0	0	0	0	0

Bold/Shaded results exceed the EPA Maximum Containment Level (MCL) for Drinking Water.
NS - No Standard
ND - None Detected
NT - Not Tested
* - Sulfate results were in the 3000 mg/L range. It is suspected that this is a result of laboratory contamination.

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-3

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Indicators			**09/21/11**	**03/26/12**	**09/20/12**	**04/26/13**	**09/19/13**	**03/27/14**
pH	units	6.5-8.5	6.70	7.74	***6.47***	6.60	***6.40***	***6.40***
Alkalinity	PPM	NS	220	230	230	240	180	170
Chloride	PPM	250	28	41	59	47	29	29
Total Dissolved Solids	PPM	500	320	370	450	380	360	340
Hardness	PPM	NS	210	240	290	270	220	210
Turbidity	NTU	15	2.1	2.3	0.8	0.9	0.7	1.8
Nitrate Nitrogen	PPM	10	0.02	<0.02	0.04	0.37	0.37	0.34
Sulfate	PPM	250	16	36	96	37	32	23
Specific Conductance	umhos/cm	NS	520	720	720	550	440	500
Chemical Oxygen Demand	PPM	NS	13	17	15	<10	<10	<10
Ammonia Nitrogen	PPM	NS	1.4	1.6	2.4	1.9	1.2	0.9
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<5
Arsenic	PPB	10	<2	<2	<2	<2	<2	<2
Barium	PPB	2,000	79	76	97	88	81	69
Beryllium	PPB	4	<0.5	<0.5	<0.5	<2	<2	<2
Cadmium	PPB	5	0.8	2.3	<0.5	<2	<2	<2
Calcium	PPB	NS	78,000	75,000	88,000	79,000	69,000	64,000
Chromium	PPB	100	<2	<2	<2	<2	<2	<2
Cobalt	PPB	NS	<2	<2	3	2	<2	<2
Copper	PPB	1,300	<2	6	2	4	6	51
Iron	PPB	300	***400***	170	***350***	70	140	<50
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	12,000	13,000	18,000	15,600	9,000	7,300
Manganese	PPB	50	***1,400***	***1,820***	***1,900***	***1,500***	***1,580***	***1,400***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	2	3	4	3	<2	<2
Potassium	PPB	NS	6,800	6,700	8,500	7,200	4,900	4,200
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<1	<1	<1	<2	<2	<2
Sodium	PPB	NS	20,000	20,000	23,000	21,000	16,000	15,000
Thallium	PPB	2	<1	<1	<1	<1	<1	<1
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	15	17	28	16	<20	57
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	1.6	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-3

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Volatile Organic Compounds Cont.			**09/21/11**	**03/26/12**	**09/20/12**	**04/26/13**	**09/19/13**	**03/27/14**
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	1.6	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-3

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Indicators			**09/23/14**	**03/25/15**	**09/28/15**	**03/30/16**	**10/27/16**
pH	units	6.5-8.5	***6.10***	***6.30***	6.63	***6.41***	*7.00*
Alkalinity	PPM	NS	180	200	160	160	170
Chloride	PPM	250	25	24	23	21	24
Total Dissolved Solids	PPM	500	360	330	450	320	310
Hardness	PPM	NS	210	210	180	190	200
Turbidity	NTU	15	5.70	2.90	0.71	2.10	<5
Nitrate Nitrogen	PPM	10	0.22	0.17	0.72	0.34	0.14
Sulfate	PPM	250	24	22	26	16	17
Specific Conductance	umhos/cm	NS	390	500	410	470	193
Chemical Oxygen Demand	PPM	NS	35	<10	<10	<10	<10
Ammonia Nitrogen	PPM	NS	1.1	8.7	0.8	0.4	1.1
Metals	**Units**	**MCL**					
Antimony	PPB	6	<5	<5	<5	<5	<5
Arsenic	PPB	10	<2	<2	<2	<2	<2
Barium	PPB	2,000	61	61	56	65	65
Beryllium	PPB	4	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	3	<2
Calcium	PPB	NS	61,000	64,000	61,000	67,000	64,200
Chromium	PPB	100	<2	<2	<2	<2	<2
Cobalt	PPB	NS	<2	<2	<2	<2	<2
Copper	PPB	1,300	7	634	62	34	5
Iron	PPB	300	60	140	<50	80	130
Lead	PPB	15	<2	4	<2	<2	<2
Magnesium	PPB	NS	5,400	5,200	4,600	5,600	6,230
Manganese	PPB	50	***1,100***	***832***	***981***	***1,200***	***1,130***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	<2	<2	<2	2	3
Potassium	PPB	NS	4,400	8,000	4,400	4,000	4,780
Selenium	PPB	50	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2
Sodium	PPB	NS	14,000	15,000	14,000	14,000	15,100
Thallium	PPB	2	<1	<1	<1	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2
Zinc	PPB	5,000	22	135	76	44	32
Volatile Organic Compounds	**Units**	**MCL**					
Acetone	PPB	NS	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	9.5	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-3

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Volatile Organic Compounds Cont.			**09/23/14**	**03/25/15**	**09/28/15**	**03/30/16**	**10/27/16**
Chloromethane	PPB	NS	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND
Total VOCs	PPB	-	9.5	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-3

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Indicators			**03/29/17**	**09/18/17**	**03/28/18**	**09/27/18**	**03/25/19**	**09/24/19**
pH	units	6.5-8.5	6.55	6.55	6.53	6.53	***6.14***	6.52
Alkalinity	PPM	NS	170	160	200	150	250	200
Chloride	PPM	250	21	20	23	14	24	14
Total Dissolved Solids	PPM	500	310	280	390	410	370	300
Hardness	PPM	NS	200	190	230	180	270	240
Turbidity	NTU	15	<5	<5	<5	<5	***23.7***	<5
Nitrate Nitrogen	PPM	10	0.29	0.10	0.18	0.05	0.21	0.18
Sulfate	PPM	250	23	14	32	13	19	35
Specific Conductance	umhos/cm	NS	404	335	484	361	470	363
Chemical Oxygen Demand	PPM	NS	22	11	18	14	<10	11
Ammonia Nitrogen	PPM	NS	0.8	0.7	<0.2	<0.2	0.3	0.3
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<2
Arsenic	PPB	10	<2	<2	<2	<2	<2	<2
Barium	PPB	2,000	69	62	72	64	97	71
Beryllium	PPB	4	<2	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	<2	<2	<4
Calcium	PPB	NS	59,100	60,100	74,300	65,700	88,700	68,800
Chromium	PPB	100	<2	<2	<2	<2	<2	<10
Cobalt	PPB	NS	<2	<2	<2	<2	3	<10
Copper	PPB	1,300	<2	2	8	2	7	<10
Iron	PPB	300	140	215	164	<50	142	113
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	5,950	6,410	11,800	4,880	18,100	7,020
Manganese	PPB	50	***1,370***	***1,370***	***2,270***	***1,330***	***3,280***	***1,520***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	<2	<2	<2	<2	2	<10
Potassium	PPB	NS	3,780	4,140	6,000	2,970	6,260	3,560
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2	<10
Sodium	PPB	NS	13,300	13,600	19,200	11,600	23,000	11,900
Thallium	PPB	2	<2	<2	<2	<2	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	<20	<20	<20	<20	25	12
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	3.0	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-3

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Volatile Organic Compounds Cont.			03/29/17	09/18/17	03/28/18	09/27/18	03/25/19	09/24/19
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	3.0	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R. B. Baker & Sons Rubble Landfill
Groundwater Monitoring Test Results
Monitoring Well W-4

Analyte			SA-50	SA-51	SA-52	SA-53	SA-54	SA-55	SA-56	SA-57	SA-58	SA-59	SA-60	SA-61	SA-62	SA-63	SA-64	SA-65	SA-66	SA-67	SA-68	SA-69	SA-70	SA-71	SA-72
Indicators	**Units**	**MCL**	04/28/04	09/07/04	12/06/04	02/08/05	06/13/05	09/21/05	11/14/05	02/01/06	05/16/06	07/20/06	10/19/06	02/21/07	04/30/07	08/02/07	12/20/07	03/17/08	06/24/08	09/30/08	03/10/09	07/17/09	01/29/10	07/30/10	02/17/11
pH	units	6.5-8.5	***6.0***	***5.5***	6.6	6.8	***6.1***	***5.8***	***6.1***	6.62	***6.3***	***5.6***	***5.5***	***5.2***	***5.6***	***5.5***	6.7	***5.8***	***NT***	***5.6***	***6.0***	***6.3***	6.9	***5.1***	***6.3***
Conductance (Specific)	umhos/cm	NS	610	590	1,000	1,800	380	1,800	1,800	1,800	2,800	270	290	370	-	2,400	2,800	400	880	2,500	390	340	840	980	1,600
Alkalinity	PPM	NS	250	260	490	800	140	870	870	820	1,500	100	120	150	92	1,100	1,300	100	310	1,400	48	80	96	150	560
Chloride	PPM	250	39.3	30.7	81.0	112.0	12.0	115.0	114.0	104.0	190.0	10.0	10.3	18.9	35.3	169.0	188.0	23.0	73.0	180.0	30.0	20.0	52.0	55.0	78.0
Hardness	PPM	NS	290	610	620	960	140	830	990	730	1,300	560	130	200	270	1,100	1,000	150	490	76	180	330	290	330	1,400
Turbidity	NTU	15	5.2	14.0	***65.0***	***100.0***	14.0	3.3	***95.0***	***130.0***	***95.0***	***120.0***	***55.0***	***380.0***	***65.0***	***33.0***	***24.0***	***220.0***	2.3	13.0	***22.0***	0.5	***70.0***	***21.0***	***120.0***
Total Organic Halogen	PPM	NS	0.036	0.150	0.079	0.180	<0.02	0.094	0.120	0.083	0.150	0.077	0.019	0.043	0.067	0.100	0.120	0.020	0.021	0.016	ND	<0.02	0.027	0.022	ND
Total Suspended Solids	PPM	NS	5	3	2	7	1	2	3	6	14	5	4	2	5	2	3	8	3	11	4	<1	2	<1	17
Total Dissolved Solids	PPM	500	340	390	***690***	***1,100***	230	***1,100***	***1,100***	***1,100***	***1,600***	120	150	170	350	***1,400***	***1,600***	190	***560***	***1,600***	250	270	480	***730***	***870***
Chemical Oxygen Demand	PPM	NS	60	160	150	160	50	200	160	180	230	13	<10	<10	20	190	220	39	39	220	210	11	16	23	95
Sulfate	PPM	250	37.6	32.0	40.0	47.0	17.2	44.1	26.1	31.5	62.9	5.8	7.5	7.7	130.0	41.2	35.0	38.0	64.0	40.0	110.0	91.0	200.0	***260.0***	5
Nitrate Nitrogen	PPM	10	0.73	0.77	0.81	<0.02	0.089	<0.1	0.420	0.330	<0.1	<0.02	<0.1	<0.1	0.99	0.14	0.11	<0.02	<0.1	<0.02	0.25	0.24	0.17	0.29	<0.02
Nitrate/Nitrite Nitrogen	PPM	NS	0.46	<0.02	0.81	<0.02	0.089	<0.1	0.420	0.330	<0.1	<0.02	<0.1	<0.1	0.99	0.14	<0.02	<0.02	<0.02	<0.02	0.25	0.24	NT	0.29	<0.02
Nitrite Nitrogen	PPM	10	<0.05	<0.05	<0.05	<0.02	<0.05	<0.1	<0.1	<0.1	<0.1	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Ammonia Nitrogen	PPM	NS	1.6	8.0	4.8	6.3	0.7	10.0	5.7	7.4	9.5	<0.2	<0.2	0.4	<0.2	10.0	19.0	0.3	1.1	19.0	<0.2	0.4	0.9	1.0	11.0
Metals																									
Arsenic	PPB	10	<2	2.2	6.7	10.4	2.6	2.9	7.2	13.0	3.1	13.0	6.8	5.9	<2	5.9	2.0	10.0	2.6	5.0	***26.0***	5.0	9.0	3.0	<2
Barium	PPB	2,000	86.4	170.0	132.0	230.0	93.0	246.0	235.0	210.0	260.0	22.0	30.0	73.0	65.0	230.0	9.8	70.0	150.0	360.0	66.0	42.0	81.0	62.0	243.0
Cadmium	PPB	5	<0.6	1	0.78	2.1	<0.5	1	1.2	1.1	1.8	<0.5	<0.5	0.8	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium	PPB	NS	59,400	14,000	105,000	172,000	28,000	162,000	186,000	140,000	210,000	18,000	29,000	34,000	40,000	160,000	42,000	30,000	200,000	180,000	38,000	40,000	81,000	78,000	118,000
Chromium	PPB	100	<2	<2	2.2	<2	<2	9.5	3.1	2.6	7.2	<2	8	6	2	<2	***270***	24	2	<2	<2	<2	<2	<2	2
Copper	PPB	1,000	3.1	6.1	4.4	6.9	2.4	5.3	6.2	4.4	9.2	<2	<2	25.5	2.2	3.6	14.0	<2	2.4	<2	<2	<2	<2	<2	<2
Iron	PPB	300	***458***	***1,300***	***11,400***	***15,700***	***2,900***	***928***	***7,940***	***21,000***	***4,800***	***8,500***	***8,900***	***90,000***	***1,500***	***2,200***	***510***	***19,000***	***370***	***2,200***	***15,000***	***4,400***	***18,000***	***1,700***	***9,300***
Lead	PPB	15	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	13.0	15.0	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Magnesium	PPB	150,000	30,300	70,000	58,200	109,000	13,000	104,000	125,000	99,000	15,000	8,900	12,000	15,000	24,000	105,000	6,250	16,000	8,100	130,000	12,000	12,000	26,000	30,000	86,000
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	***3***	<0.5	1	<0.5	1.6	<0.5	<0.5	<0.5	<0.5
Potassium	PPB	NS	5,440	13,000	10,100	11,900	3,000	14,800	14,800	12,000	15,000	570	<300	3,300	350	17,000	14,000	3,500	7,100	35,000	3,300	4,100	7,700	8,100	24,000
Selenium	PPB	50	<5	<5	<5	5.1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5.0	<5	<5	<5	<5	<5	<5	<5	<5
Sodium	PPB	NS	41,100	110,000	91,000	148,000	21,000	141,000	166,000	120,000	190,000	6,400	19,000	45,000	28,000	165,000	210,000	21,000	38,000	180,000	18,000	21,000	45,000	47,000	103,000
Zinc	PPB	5,000	<10	22.0	20.1	29.5	17.0	<10	23.2	66.0	38.0	<10	12.0	***5,400.0***	50.0	<10	<10	16.0	<10	<10	10.0	<10	<10	<10	14.0
VOCs																									
Dichlorodifluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND	ND	ND	4.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	0.87	ND	1.10	ND	ND	2.4	ND	ND	ND	ND	1.7	2.0	2.0	ND	1.3	ND	ND	ND	ND	ND
Chlorobenzene	PPB	50	ND	ND	ND	0.92	ND	1.70	ND	1.30	ND	ND	ND	ND	ND	3.4	4.2	4.2	ND	3.3	ND	ND	ND	ND	1.1
o-Xylene	PPB	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	PPB	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	0.5	1.1	ND	1.3	ND	ND	2.6	ND	ND	ND	ND	2.3	3.2	3.2	ND	2.9	ND	ND	ND	ND	0.7
Isopropylbenzene	PPB	NS	ND	ND	ND	ND	ND	ND	ND	ND	0.8	ND	ND	ND	ND	0.8	0.7	0.7	ND	0.9	ND	ND	ND	ND	ND
Methylene Chloride	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichloromethane	PPB		ND	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	PPB	70	2.5	2.3	3.0	ND	ND	5.0	3.4	5.8	11.0	ND	ND	ND	ND	5.8	7.4	8.4	1.1	11.0	ND	ND	ND	ND	1.6
Naphthalene	PPB	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	PPB	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	PPB	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs	PPB		2.5	2.3	3.5	2.89	0	9.7	3.4	7.1	20.93	0	0	0	0	14.02	17.5	18.5	1.1	19.4	0	0.0	0.0	0.0	3.4

Bold/Shaded results exceed the EPA Maximum Containment Level (MCL) for Drinking Water.
NS - No Standard
ND - None Detected
NT - Not Tested
* - Sulfate results were in the 3000 mg/L range. It is suspected that this is a result of laboratory contamination.

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-4

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Indicators			**09/21/11**	**03/26/12**	**09/20/12**	**04/26/13**	**09/19/13**	**03/27/14**
pH	units	6.5-8.5	6.70	8.03	6.75	6.50	6.60	6.70
Alkalinity	PPM	NS	510	460	460	80	480	400
Chloride	PPM	250	63	45	59	9.1	59	53
Total Dissolved Solids	PPM	500	***810***	***720***	***740***	360	***840***	***700***
Hardness	PPM	NS	550	430	490	250	530	440
Turbidity	NTU	15	***32.0***	***74.0***	***15.0***	2.3	1.6	***45.0***
Nitrate Nitrogen	PPM	10	<0.02	<0.02	0.03	0.54	0.64	0.39
Sulfate	PPM	250	160	140	170	190	180	150
Specific Conductance	umhos/cm	NS	1,300	1,400	1,400	480	1100	1200
Chemical Oxygen Demand	PPM	NS	94	51	55	<10	65	11
Ammonia Nitrogen	PPM	NS	7.6	7.3	13	0.2	15	11
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<5
Arsenic	PPB	10	6	8	6	<2	<2	3
Barium	PPB	2,000	183	123	210	44	167	100
Beryllium	PPB	4	<0.5	<0.5	<0.5	<2	<2	<2
Cadmium	PPB	5	<0.5	<0.5	<0.5	<2	<2	<2
Calcium	PPB	NS	109,000	91,000	97,000	61,000	90,000	80,000
Chromium	PPB	100	<2	<2	<2	<2	<2	<2
Cobalt	PPB	NS	23	9	12	<2	11	10
Copper	PPB	1,300	<2	<2	<2	<2	4	7
Iron	PPB	300	***6,000***	***19,000***	***3,900***	80	***460***	***5,300***
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	64,000	51,000	65,000	16,000	65,000	52,000
Manganese	PPB	50	***4,800***	***3,090***	***5,800***	***111***	***5,470***	***5,300***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	13	9	12	<2	15	8
Potassium	PPB	NS	19,000	15,000	22,000	4,500	24,000	18,000
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<1	<1	<1	<2	<2	<2
Sodium	PPB	NS	90,000	64,000	72,000	21,000	72,000	55,000
Thallium	PPB	2	<1	<1	1	<1	2	1
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	52	<10	17	48	<20	<20
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-4

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Volatile Organic Compounds Cont.			**09/21/11**	**03/26/12**	**09/20/12**	**04/26/13**	**09/19/13**	**03/27/14**
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-4

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Indicators			**09/23/14**	**03/25/15**	**09/28/15**	**03/30/16**	**10/27/16**
pH	units	6.5-8.5	***6.40***	6.50	6.71	***6.47***	7.16
Alkalinity	PPM	NS	420	270	450	300	440
Chloride	PPM	250	52	27	47	27	44
Total Dissolved Solids	PPM	500	***680***	***520***	***800***	***510***	***690***
Hardness	PPM	NS	500	280	420	310	500
Turbidity	NTU	15	1.6	***25.0***	10.0	***50.0***	<5
Nitrate Nitrogen	PPM	10	0.25	0.88	0.39	0.46	0.23
Sulfate	PPM	250	160	130	140	110	110
Specific Conductance	umhos/cm	NS	980	760	1100	880	1090
Chemical Oxygen Demand	PPM	NS	16	12	44	21	48
Ammonia Nitrogen	PPM	NS	14	3.3	12	3.7	10
Metals	**Units**	**MCL**					
Antimony	PPB	6	<5	<5	<5	<5	<5
Arsenic	PPB	10	3	<2	5	5	6
Barium	PPB	2,000	121	47	104	59	109
Beryllium	PPB	4	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	<2	<2
Calcium	PPB	NS	76,000	59,000	79,000	69,000	78,700
Chromium	PPB	100	<2	<2	<2	<2	<2
Cobalt	PPB	NS	11	3	9	7	10
Copper	PPB	1,300	<2	<2	<2	<2	7
Iron	PPB	300	***1,020***	***2,400***	***1,600***	***7,500***	***1,920***
Lead	PPB	15	<2	<2	<2	<2	<2
Magnesium	PPB	NS	56,000	29,000	54,000	33,000	57,200
Manganese	PPB	50	***5,800***	***2,470***	***6,470***	***2,600***	***6,470***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	12	3	11	5	11
Potassium	PPB	NS	23,000	8,800	19,000	11,000	21,900
Selenium	PPB	50	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2
Sodium	PPB	NS	50,000	24,000	54,000	27,000	49,700
Thallium	PPB	2	1	<1	<1	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2
Zinc	PPB	5,000	<20	<20	<20	32	24
Volatile Organic Compounds	**Units**	**MCL**					
Acetone	PPB	NS	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-4

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Volatile Organic Compounds Cont.			**09/23/14**	**03/25/15**	**09/28/15**	**03/30/16**	**10/27/16**
Chloromethane	PPB	NS	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-4

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Indicators			03/29/17	09/19/17	03/28/18	09/27/18	03/25/19	09/24/19
pH	units	6.5-8.5	***6.23***	6.74	6.94	6.60	***6.48***	6.79
Alkalinity	PPM	NS	160	330	130	340	180	400
Chloride	PPM	250	9.5	39	4.3	39	12	47
Total Dissolved Solids	PPM	500	270	***600***	240	***630***	280	460
Hardness	PPM	NS	200	390	190	390	210	390
Turbidity	NTU	15	20.2	<5	<5	<5	***37.6***	<5
Nitrate Nitrogen	PPM	10	0.48	0.28	0.26	0.12	1	0.15
Sulfate	PPM	250	59	66	45	77	55	94
Specific Conductance	umhos/cm	NS	406	729	373	838	359	839
Chemical Oxygen Demand	PPM	NS	<10	35	12	31	14	26
Ammonia Nitrogen	PPM	NS	0.7	6.5	<0.2	0.1	<0.2	13
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<2
Arsenic	PPB	10	3	***11***	<2	4	<2	2
Barium	PPB	2,000	46	207	53	167	56	139
Beryllium	PPB	4	<2	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	<2	<2	<4
Calcium	PPB	NS	41,200	82,100	55,400	78,800	61,300	80,100
Chromium	PPB	100	<2	<2	<2	<2	<2	<10
Cobalt	PPB	NS	2	4	<2	4	<2	<10
Copper	PPB	1,300	3	<2	<2	<2	<2	<10
Iron	PPB	300	***2,040***	***3,860***	<50	***1,630***	***1,870***	***1,170***
Lead	PPB	15	<2	<2	<2	<2	3	<2
Magnesium	PPB	NS	16,700	35,500	15,300	48,300	20,000	47,100
Manganese	PPB	50	***624***	***1,560***	8	***2,850***	***139***	***3,870***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	3	5	<2	6	<2	10
Potassium	PPB	NS	4,190	12,600	3,190	20,800	3,360	24,600
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2	<10
Sodium	PPB	NS	11,600	29,200	6,110	31,300	8,520	33,300
Thallium	PPB	2	<2	<2	<2	<2	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	<20	<20	<20	<20	40	16
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-4

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Volatile Organic Compounds Cont.			03/29/17	09/19/17	03/28/18	09/27/18	03/25/19	09/24/19
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R. B. Baker & Sons Rubble Landfill
Groundwater Monitoring Test Results
Monitoring Well W-5

Analyte			SA-50	SA-51	SA-52	SA-53	SA-54	SA-55	SA-56	SA-57	SA-58	SA-59	SA-60	SA-61	SA-62	SA-63	SA-64	SA-65	SA-66	SA-67	SA-68	SA-69	SA-70	SA-71	SA-72
Indicators	**Units**	**MCL**	4/28/04	9/7/04	12/6/04	2/8/05	6/13/05	9/21/05	11/14/05	02/01/06	05/16/06	07/20/06	10/19/06	02/21/07	04/30/07	08/02/07	12/20/07	03/17/08	06/24/08	09/30/08	03/10/09	07/17/09	01/29/10	07/30/10	02/17/11
pH	units	6.5-8.5	***5.9***	***6.2***	***5.3***	***6.3***	***5.3***	***5.5***	***5.6***	***6.02***	***6.01***	***5.50***	***5.63***	***5.00***	***5.53***	***5.66***	***5.50***	***5.10***	***N/T***	***5.70***	***6.40***	***5.80***	***6.40***	***6.00***	***5.57***
Conductance (Specific)	umhos/cm	NS	430	180	110	110	130	190	120	600	420	89	95	110	-	120	96	87	100	290	67	63	110	150	130
Alkalinity	PPM	NS	100	22	28	28	19	36	12	160	32	12	24	37	84	12	12	16	32	2	12	16	28	29	50
Chloride	PPM	250	38.1	8.8	4.1	2.6	4.8	10.1	5.3	65.4	43.1	3.5	2.9	3.8	32.0	6.5	6.3	3.1	8.6	20	2	1.5	4.7	11	6.3
Hardness	PPM	NS	150	52	130	80	45	68	40	290	160	28	60	86	240	48	36	78	40	140	40	220	100	12	56
Turbidity	NTU	15	5.4	5.4	1.4	***58.0***	1.0	0.38	0.60	1.10	***20.00***	10.00	***110.00***	***55.00***	***70.00***	***130.00***	7.60	***230.00***	***80.00***	9.5	4.2	0.2	2.1	1.5	***120.0***
Total Organic Halogen	PPM	NS	0.047	0.028	0.016	0.012	<0.02	<0.02	0.017	0.038	0.028	0.014	0.012	0.013	0.024	0.022	0.028	0.026	0.027	0.015	ND	<0.02	ND	ND	ND
Total Suspended Solids	PPM	NS	2	2	<1	2	<1	<1	6	2	3	15	59	<1	4	<1	3	3	<1	7	1	<1	<1	<1	25
Total Dissolved Solids	PPM	500	200	130	93	76	80	120	92	350	250	69	59	80	340	83	67	47	67	210	68	53	54	46	92
Chemical Oxygen Demand	PPM	NS	<10	18	16	<10	<10	<10	<10	<10	<10	<10	<10	<10	34	<10	<10	18	<10	11	<10	<10	<10	<10	37
Sulfate	PPM	250	35.1	63.3	35.0	23.6	30.0	42.0	36.8	35.4	92.7	22.1	17.6	20.6	132.0	34.8	20.0	14.0	26.0	130	11	10.2	16	15	*
Nitrate Nitrogen	PPM	10	0.23	0.45	<0.05	0.09	0.21	0.19	0.18	0.31	0.58	0.28	<0.1	0.2	0.99	0.33	0.1	<.02	0.33	0.45	0.51	0.35	0.33	0.52	0.3
Nitrate/Nitrite Nitrogen	PPM	NS	0.13	0.43	<0.05	0.09	0.21	0.19	0.18	0.31	0.58	0.28	<0.1	0.2	0.99	0.33	<0.02	0.09	0.41	N/T	0.51	0.35	NT	0.52	0.3
Nitrite Nitrogen	PPM	10	<0.05	<0.05	<0.05	<0.02	<0.05	<0.1	<0.1	<0.1	<0.1	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	<0.2	0.5	0.4	<0.2	<0.2	<0.2	<0.2	<0.2	0.4	<0.2	0.3	<0.2	<0.2	0.5	<0.2	<0.2	0.2
Metals																									
Arsenic	PPB	10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	4	<2	<2	<2	***12.0***	3.5	<2	<2	<2	<2	<2	<2	<2
Barium	PPB	2,000	58.2	49.0	43.4	29.8	45.0	53.4	47.9	140.0	140.0	21.0	25	35	66.0	40.0	37.0	37.0	50.0	120	26	33	36	40	33
Cadmium	PPB	5	0.60	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3	<0.5	<0.5	0.5	<0.5	<0.5	***8***	<0.5	0.60	<0.5	<0.5	<0.5
Calcium	PPB	NS	46,500	11,000	7,750	7,760	13,000	15,500	8,180	64,000	67,000	4,800	8,400	10,000	36,000	7,700	6,250	6,200	11,000	26,000	5,800	6,400	8,800	11,000	12,000
Chromium	PPB	100	<2	<2	<2	<2	<2	8.3	3.1	<2	<2	<2	63	54	3.4	<2	4.1	8.1	<2	12	<2	<2	<2	<2	<2
Copper	PPB	1,000	2.1	3.0	<2	3.7	2.1	3.1	3.8	2.3	4.7	15.0	<2	20	5.4	3.1	2.1	<2	<2	<2	<2	<2	<2	<2	<2
Iron	PPB	300	***380***	***310***	***609***	***6,280***	***1,500***	***772***	***1,040***	***510***	***2,300***	***620***	***17,000***	***880***	***2,000***	***14,000***	***77,000***	***38,000***	***12,000***	100	***820***	***880***	100	130	***5,300***
Lead	PPB	15	<2	2.4	<2	4.4	3.5	2.4	3.3	<2	<2	<2	15	7	<2	3.8	6.6	6.2	2.4	<2	<2	<2	<2	<2	<2
Magnesium	PPB	150,000	7,500	5,300	3,950	3,870	4,400	5,190	4,020	9,600	12,000	2,100	3,500	4,300	22,000	4,800	3,000	3,200	5,400	10,000	2,800	3,100	3,800	3,000	4,300
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Potassium	PPB	NS	2,320	2,200	1,500	909	1,700	2,130	2,030	2,800	3,000	920	<300	2,300	420	1,900	1,300	1,400	1,700	2,300	1,100	1,200	1,300	800	960
Selenium	PPB	50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Sodium	PPB	NS	28,300	12,000	4,640	2,790	8,100	10,400	5,550	40,000	42,000	3,800	5,600	25,000	24,000	7,400	3,100	2,800	7,500	4,500	2,000	1,800	3,900	6,600	4,200
Zinc	PPB	5,000	13.9	19.0	14.3	26.0	23.0	10.2	26.1	36.0	20.0	17.0	12	***5,500***	66.0	<10	21.0	17.0	12.0	100	10	10	<10	10	16
Volatile Organic Compounds																									
Benzene	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichlorethane	PPB	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	PPB	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	PPB		ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichloromethane	PPB		ND	ND	ND	ND	ND	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs	PPB		3.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Bold/Shaded results exceed the EPA Maximum Containment Level (MCL) for Drinking Water.
NS - No Standard
ND - None Detected
NT - Not Tested
* - Sulfate results were in the 3000 mg/L range. It is suspected that this is a result of laboratory contamination.

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-5

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Indicators			09/21/11	03/26/12	09/20/12	04/26/13	09/19/13	03/27/14
pH	units	6.5-8.5	***6.30***	7.07	***5.32***	***5.70***	***5.10***	***5.90***
Alkalinity	PPM	NS	130	20	32	11	<20	<20
Chloride	PPM	250	35	8.3	11	2	3.6	5.1
Total Dissolved Solids	PPM	500	220	71	55	32	59	88
Hardness	PPM	NS	150	36	40	36	30	32
Turbidity	NTU	15	***18.0***	2.3	0.5	***100.0***	6.6	12.0
Nitrate Nitrogen	PPM	10	<0.02	0.37	0.04	0.06	0.23	0.29
Sulfate	PPM	250	17	34	74	26	17	10
Specific Conductance	umhos/cm	NS	390	100	120	70	76	96
Chemical Oxygen Demand	PPM	NS	26	<10	<10	<10	28	<10
Ammonia Nitrogen	PPM	NS	<0.2	0.3	0.4	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<5
Arsenic	PPB	10	<2	<2	<2	<2	<2	<2
Barium	PPB	2,000	68	29	38	35	38	38
Beryllium	PPB	4	<0.5	<0.5	<0.5	<2	<2	<2
Cadmium	PPB	5	<0.5	<0.5	<0.5	<2	<2	<2
Calcium	PPB	NS	4,400	6,800	8,400	7,200	5,000	6,700
Chromium	PPB	100	<2	<2	<2	<2	<2	<2
Cobalt	PPB	NS	4	<2	12	12	7	<2
Copper	PPB	1,300	<2	<2	<2	<2	<2	<2
Iron	PPB	300	***1,700***	290	***2,700***	***15,000***	***2,200***	***1,900***
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	14,000	4,100	3,400	19,000	2,200	2,900
Manganese	PPB	50	***410***	***54***	***780***	***674***	***361***	***130***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	3	2	<2	<2	2	<2
Potassium	PPB	NS	2,800	1,400	900	610	950	890
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<1	<1	<1	<2	<2	<2
Sodium	PPB	NS	23,000	5,300	4,800	2,400	2,800	3,900
Thallium	PPB	2	<1	<1	<1	<1	<1	<1
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	21	17	33	12	66	<20
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-5

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Volatile Organic Compounds Cont.			**09/21/11**	**03/26/12**	**09/20/12**	**04/26/13**	**09/19/13**	**03/27/14**
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-5

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Indicators			**09/23/14**	**03/25/15**	**09/28/15**	**03/30/16**	**10/27/16**
pH	units	6.5-8.5	***6.10***	***5.90***	***5.91***	***5.22***	***6.18***
Alkalinity	PPM	NS	200	56	46	<20	20
Chloride	PPM	250	33	13	6.6	7.9	4.1
Total Dissolved Solids	PPM	500	360	140	140	61	160
Hardness	PPM	NS	230	72	54	38	23
Turbidity	NTU	15	5.90	10.00	2.40	***29.00***	<5
Nitrate Nitrogen	PPM	10	0.24	0.28	0.17	0.6	0.06
Sulfate	PPM	250	37	28	28	20	<10
Specific Conductance	umhos/cm	NS	450	210	180	130	65
Chemical Oxygen Demand	PPM	NS	16	<10	10	<10	<10
Ammonia Nitrogen	PPM	NS	0.6	<0.2	0.3	<0.2	<0.2
Metals	**Units**	**MCL**					
Antimony	PPB	6	<5	<5	<5	<5	<5
Arsenic	PPB	10	<2	<2	<2	3	<2
Barium	PPB	2,000	109	57	43	50	24
Beryllium	PPB	4	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	<2	<2
Calcium	PPB	NS	46,000	17,000	12,000	7,600	5,030
Chromium	PPB	100	<2	<2	<2	<2	<2
Cobalt	PPB	NS	8	<2	11	2	8
Copper	PPB	1,300	<2	<2	<2	5	<2
Iron	PPB	300	***2,320***	***1,600***	***3,500***	***6,300***	***1,750***
Lead	PPB	15	<2	<2	<2	6	<2
Magnesium	PPB	NS	14,000	5,900	5,600	4,400	2,200
Manganese	PPB	50	***1,300***	***193***	***806***	***119***	***393***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	11	<2	<2	3	<2
Potassium	PPB	NS	3,500	1,700	1,600	1,500	2,160
Selenium	PPB	50	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2
Sodium	PPB	NS	32,000	12,000	5,500	6,400	1,530
Thallium	PPB	2	<1	<1	<1	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2
Zinc	PPB	5,000	<20	<20	<20	<20	23
Volatile Organic Compounds	**Units**	**MCL**					
Acetone	PPB	NS	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-5

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Volatile Organic Compounds Cont.			09/23/14	03/25/15	09/28/15	03/30/16	10/27/16
Chloromethane	PPB	NS	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-5

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Indicators			03/29/17	09/19/17	03/28/18	09/27/18	03/25/19	09/24/19
pH	units	6.5-8.5	***4.38***	***5.57***	***6.00***	***6.14***	***5.69***	6.61
Alkalinity	PPM	NS	<20	<20	83	210	130	320
Chloride	PPM	250	2.6	<1.0	34	44	24	34
Total Dissolved Solids	PPM	500	55	83	250	420	320	450
Hardness	PPM	NS	30	23	130	260	170	360
Turbidity	NTU	15	<5	<5	<5	<5	***32.10***	<5
Nitrate Nitrogen	PPM	10	0.26	<0.05	0.27	0.14	0.26	0.15
Sulfate	PPM	250	12	14	57	70	86	100
Specific Conductance	umhos/cm	NS	87	29	408	724	455	800
Chemical Oxygen Demand	PPM	NS	<10	<10	12	41	14	45
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	1.3	0.3	3.4
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<2
Arsenic	PPB	10	<2	<2	<2	<2	<2	2
Barium	PPB	2,000	34	21	106	135	120	139
Beryllium	PPB	4	<2	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	<2	<2	<4
Calcium	PPB	NS	5,170	2,920	33,900	77,900	53,400	88,200
Chromium	PPB	100	<2	<2	<2	<2	<2	<10
Cobalt	PPB	NS	<2	9	3	4	3	<10
Copper	PPB	1,300	<2	<2	<2	<2	<2	<10
Iron	PPB	300	***540***	***913***	***771***	***1,400***	***1,450***	***2,160***
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	2,790	1,140	13,500	21,600	16,800	25,200
Manganese	PPB	50	***88***	***330***	***176***	***1,390***	***1,380***	***3,340***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	<2	<2	8	8	8	<10
Potassium	PPB	NS	490	477	3,300	4,250	2,850	4,770
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2	<10
Sodium	PPB	NS	2,860	643	30,600	52,800	37,800	59,000
Thallium	PPB	2	<2	<2	<2	<2	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	<20	<20	24	<20	<20	17
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-5

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Volatile Organic Compounds Cont.			03/29/17	09/19/17	03/28/18	09/27/18	03/25/19	09/24/19
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R. B. Baker & Sons Rubble Landfill
Groundwater Monitoring Test Results
Monitoring Well W-6

Analyte			SA-36	SA-38	SA-40	SA-42	SA-44	SA-46	SA-48	SA-50	SA-52	SA-54	SA-56	SA-58	SA-60	SA-62	SA-64	SA-66	SA-68	SA-69	SA-70	SA-71	SA-72
Indicators	**Units**	**MCL**	11/20/00	5/21/01	11/27/01	5/16/02	12/2/02	5/29/03	10/24/03	4/28/04	12/6/04	6/13/04	11/14/05	05/15/06	10/19/06	05/01/07	12/20/07	06/24/08	03/13/09	07/17/09	01/29/10	07/30/10	02/17/11
pH	units	6.5-8.5	***6.0***	***3.9***	***4.3***	***4.4***	***4.8***	***4.7***	***5.5***	***4.8***	***5.4***	***3.6***	***5.1***	***5.1***	***5.3***	***5.3***	***6.0***	***NT***	***6.0***	***5.9***	6.5	***5.4***	***5.27***
Conductance (Specific)	umhos/cm	NS	215	180	224	177	145	110	87	150	60	190	63	420	90	1,100	190	100	980	270	1	120	150
Alkalinity	PPM	NS	8	<1	<4	<1	8	8	4	<1	12	1	9.7	44.0	8.0	240.0	<1	4.0	300.0	2	4	7	2
Chloride	PPM	250	29.0	24.0	29.0	16.0	21.0	14.5	10.8	23.6	8.4	27.5	<4	46.3	13.9	133.0	33.0	20.0	130.0	14	25	25	35
Hardness	PPM	NS	73	55	62	40	40	34	30	50	140	26	40	140	56	64	48	36	48	160	200	6,100	310
Turbidity	NTU	15	***92.0***	NT	NT	NT	NT	NT	NT	NT	NT	5.5	NT	NT	NT	36.0	NT	NT	NT	***27***	NT	NT	***32***
Total Organic Halogen	PPM	NS	0.013	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND
Total Suspended Solids	PPM	NS	230	NT	NT	NT	NT	NT	NT	NT	NT	1	NT	NT	NT	NT	NT	NT	NT	6	NT	NT	29
Total Dissolved Solids	PPM	500	180	NT	NT	NT	NT	NT	NT	NT	NT	110	NT	NT	NT	NT	NT	NT	NT	240	NT	NT	46
Chemical Oxygen Demand	PPM	NS	27	<14	43	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	25	<10	<11	13	26	<10	23	26
Sulfate	PPM	250	15.0	NT	NT	NT	NT	NT	NT	NT	NT	13.0	NT	NT	NT	NT	NT	NT	NT	100	NT	NT	16
Nitrate Nitrogen	PPM	10	9.20	3.80	<0.02	5.50	6.0	3.9	1.9	7.00	1.60	6.5	1.4	0.5	2.4	<0.1	1.5	1.7	<0.02	1.1	1.1	0.5	1.4
Nitrite Nitrogen	PPM	10	<0.02	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	0.49	2.40	<0.1	<0.1	<0.1	<0.02	1.1	<0.02	<0.02	<0.02
Nitrate/Nitrite Nitrogen	PPM	NS	9.2	3.8	<0.02	9.4	6.1	3.9	1.9	6.0	1.6	6.5	1.4	<0.1	<0.1	<0.1	1.6	1.7	<0.02	<0.02	NT	0.5	1.4
Ammonia Nitrogen	PPM	NS	<0.2	NT	NT	NT	NT	NT	NT	NT	NT	<0.2	NT	NT	NT	NT	NT	NT	NT	0.4	NT	NT	<0.2
Metals																							
Arsenic	PPB	10	10	<5	9	<5	<5	<2	2.7	<2	<2	<2	<2	<2	<2	4.3	2.4	2.3	<2	3	2	14	3
Barium	PPB	2,000	120	100	130	110	80	48.7	40.2	74.4	32.3	71.0	26.5	50.0	33	160	80.6	57	49	95	62	55	69
Cadmium	PPB	5	3.2	6.8	2.4	1.6	0.6	<0.5	<0.5	2.9	<0.5	5.4	<0.5	<0.5	<0.5	<0.5	5.8	0.57	2.9	0.5	1	0.7	0.8
Calcium	PPB	NS	15,000	NT	NT	NT	NT	NT	NT	NT	NT	8,400	NT	NT	NT	NT	NT	NT	NT	23,000	NT	NT	7,800
Chromium	PPB	100	60	<10	40	20	20	<2	3.6	<2	2.8	<2	2.1	<2	3.5	<2	24.6	6.8	4	9	<2	8	3
Copper	PPB	1,000	<10	NT	NT	NT	NT	NT	NT	NT	NT	<2	NT	NT	NT	NT	NT	NT	NT	4	NT	NT	<2
Iron	PPB	300	***25,000***	NT	NT	NT	NT	NT	NT	NT	NT	1,100	NT	NT	NT	NT	NT	NT	NT	***7,300***	NT	NT	***6,600***
Lead	PPB	15	9	<5	<5	<5	<5	<2	2.3	<2	<2	<2	<2	<2	7.6	<2	<2	<2	<2	4	<2	4	<2
Magnesium	PPB	150,000	9,000	NT	NT	NT	NT	NT	NT	NT	NT	3,800	NT	NT	NT	NT	NT	NT	NT	15,000	NT	NT	5,400
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Potassium	PPB	NS	<5,000	NT	NT	NT	NT	NT	NT	NT	NT	1,360	NT	NT	NT	NT	NT	NT	NT	5,600	NT	NT	1,900
Selenium	PPB	50	<5	NT	NT	NT	NT	NT	NT	NT	NT	<5	NT	NT	NT	NT	NT	NT	NT	<5	NT	NT	<5
Sodium	PPB	NS	7,900	NT	NT	NT	NT	NT	NT	NT	NT	8,300	NT	NT	NT	NT	NT	NT	NT	14,000	NT	NT	5,800
Zinc	PPB	5,000	90	60	50	30	30	19.7	<25	35.2	13.5	44.0	<10	15.0	10.0	59.0	20.0	15.0	30.0	180	10	20	27
Volatile Organic Compounds																							
Total VOCs	PPB		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Bold/Shaded results exceed the EPA Maximum Containment Level (MCL) for Drinking Water.
NS - No Standard
ND - None Detected
NT - Not Tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-6

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Indicators			09/21/11	03/26/12	09/20/12	04/26/13	09/19/13	03/27/14
pH	units	6.5-8.5	***5.50***	***4.86***	***4.52***	***5.10***	***4.40***	***5.20***
Alkalinity	PPM	NS	6	10	12	3	<20	<20
Chloride	PPM	250	37	31	39	28	33	29
Total Dissolved Solids	PPM	500	60	55	120	85	98	91
Hardness	PPM	NS	50	40	44	42	44	36
Turbidity	NTU	15	***16.0***	***99.0***	0.4	***110.0***	0.9	***40.0***
Nitrate Nitrogen	PPM	10	0.94	1.2	1	1.2	2	1.2
Sulfate	PPM	250	<10	21	<10	<10	15	<10
Specific Conductance	umhos/cm	NS	140	160	170	120	130	130
Chemical Oxygen Demand	PPM	NS	<10	<10	<10	<10	<10	<10
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<5
Arsenic	PPB	10	4	4	<2	6	<2	3
Barium	PPB	2,000	158	47	80	64	77	58
Beryllium	PPB	4	<0.5	<0.5	<0.5	<2	<2	<2
Cadmium	PPB	5	2.2	0.8	1.5	<2	<2	<2
Calcium	PPB	NS	7,100	7,000	9,800	7,800	7,700	5,900
Chromium	PPB	100	<2	<2	<2	<2	<2	<2
Cobalt	PPB	NS	2	<2	<2	<2	<2	<2
Copper	PPB	1,300	<2	<2	<2	<2	<2	3
Iron	PPB	300	***6,800***	***11,000***	***360***	***15,000***	***1,400***	***8,100***
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	4,600	4,600	5,100	4,800	5,400	4,000
Manganese	PPB	50	10	22	24	20	18	20
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	7	4	6	4	5	<2
Potassium	PPB	NS	1,700	1,700	2,000	1,700	1,800	1,400
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<1	<1	<1	<2	<2	<2
Sodium	PPB	NS	7,700	5,200	8,100	5,800	6,300	5,300
Thallium	PPB	2	<1	<1	<1	<1	<1	<1
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	30	17	35	30	21	<20
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-6

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Volatile Organic Compounds Cont.			**09/21/11**	**03/26/12**	**09/20/12**	**04/26/13**	**09/19/13**	**03/27/14**
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-6

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Indicators			**09/23/14**	**03/25/15**	**09/28/15**	**03/30/16**	**10/27/16**
pH	units	6.5-8.5	***4.10***	***4.10***	***4.66***	***4.61***	***5.19***
Alkalinity	PPM	NS	<20	<20	<20	<20	<20
Chloride	PPM	250	33	23	33	22	21
Total Dissolved Solids	PPM	500	130	71	210	50	160
Hardness	PPM	NS	84	30	35	26	22
Turbidity	NTU	15	0.29	***47.0***	1.2	***21.0***	<5
Nitrate Nitrogen	PPM	10	1.6	0.86	1.4	0.83	0.59
Sulfate	PPM	250	<10	<10	<10	<10	<10
Specific Conductance	umhos/cm	NS	130	120	130	110	94
Chemical Oxygen Demand	PPM	NS	<10	<10	12	<10	<10
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	0.2	<0.2	<0.2
Metals	**Units**	**MCL**					
Antimony	PPB	6	<5	<5	<5	<5	<5
Arsenic	PPB	10	<2	3	<2	3	<2
Barium	PPB	2,000	67	46	59	48	38
Beryllium	PPB	4	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	<2	<2
Calcium	PPB	NS	6,800	5,500	3,700	5,500	4,870
Chromium	PPB	100	<2	3	<2	<2	<2
Cobalt	PPB	NS	<2	<2	<2	<2	<2
Copper	PPB	1,300	<2	<2	<2	<2	<2
Iron	PPB	300	***450***	***25,000***	***860***	***4,100***	***1,370***
Lead	PPB	15	<2	<2	<2	<2	<2
Magnesium	PPB	NS	4,300	3,600	3,800	3,700	2,350
Manganese	PPB	50	18	***57***	18	13	12
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	4	4	5	4	3
Potassium	PPB	NS	1,700	1,400	1,600	1,500	1,340
Selenium	PPB	50	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2
Sodium	PPB	NS	5,700	4,900	6,400	5,200	5,010
Thallium	PPB	2	<1	<1	<1	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2
Zinc	PPB	5,000	29	173	41	30	26
Volatile Organic Compounds	**Units**	**MCL**					
Acetone	PPB	NS	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-6

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Indicators			03/29/17	09/18/17	03/28/18	09/27/18	03/25/19	09/24/19
pH	units	6.5-8.5	***4.48***	***4.58***	***3.33***	***4.33***	***3.88***	***4.72***
Alkalinity	PPM	NS	<20	<20	<20	<20	<20	<20
Chloride	PPM	250	18	19	13	33	14	16
Total Dissolved Solids	PPM	500	64	<25	77	100	44	220
Hardness	PPM	NS	24	27	17	35	16	18
Turbidity	NTU	15	<5	<5	<5	***20.0***	***31.4***	<5
Nitrate Nitrogen	PPM	10	0.58	0.70	0.54	<0.05	0.25	0.54
Sulfate	PPM	250	<10	<10	<10	15	<10	26
Specific Conductance	umhos/cm	NS	104	72	85	148	83	97
Chemical Oxygen Demand	PPM	NS	<10	<10	<10	<10	12	<10
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<2
Arsenic	PPB	10	<2	<2	<2	<2	<2	<2
Barium	PPB	2,000	42	38	29	70	31	35
Beryllium	PPB	4	<2	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	5	<2	<4
Calcium	PPB	NS	3,920	3,890	3,380	8,190	3,830	3,780
Chromium	PPB	100	<2	7	<2	<2	<2	<10
Cobalt	PPB	NS	<2	<2	<2	2	<2	<10
Copper	PPB	1,300	<2	<2	<2	<2	<2	<10
Iron	PPB	300	***820***	***433***	***423***	***1,590***	***1,430***	192
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	2,630	2,760	2,330	4,280	2,430	2,350
Manganese	PPB	50	11	10	8	20	10	15
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	3	3	<2	13	2	<10
Potassium	PPB	NS	1,220	1,330	1,190	1,680	1,090	1,300
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2	<10
Sodium	PPB	NS	4,340	4,760	5,410	9,770	9,130	8,830
Thallium	PPB	2	<2	<2	<2	<2	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	<20	<20	<20	38	<20	31
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-6

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Volatile Organic Compounds Cont.			03/29/17	09/18/17	03/28/18	09/27/18	03/25/19	09/24/19
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R. B. Baker & Sons Rubble Landfill
Groundwater Monitoring Test Results
Monitoring Well W-7

Analyte			SA-36	SA-38	SA-40	SA-42	SA-44	SA-46	SA-48	SA-50	SA-52	SA-54	SA-56	SA-58	SA-60	SA-62	SA-64	SA-66	SA-68	SA-69	SA-70	SA-71	SA-72
Indicators	**Units**	**MCL**	**11/20/00**	**5/21/01**	**11/27/01**	**5/16/02**	**12/2/02**	**5/29/03**	**10/24/03**	**4/28/04**	**12/6/04**	**6/13/04**	**11/14/05**	**05/16/06**	**10/19/06**	**05/01/07**	**12/20/07**	**06/24/08**	**03/13/09**	**07/17/09**	**01/29/10**	**07/30/10**	**02/17/11**
pH	units	6.5-8.5	***4.7***	***4.4***	***4.4***	***4.4***	***4.9***	6.9	7.8	***4.6***	***6.1***	***4.0***	***5.0***	***5.6***	***5.6***	***5.7***	***6.4***	***NT***	***5.3***	***5.8***	***5.4***	***5.9***	***5.68***
Conductance (Specific)	umhos/cm	NS	173	150	153	216	325	260	290	280	290	270	240	420	90	1100	190	100	100	63	140	130	360
Alkalinity	PPM	NS	6	<1	<4	<1	4	4	5	<1	16	2	<4	40	8	240	<1	4	8	16	4	9	11
Chloride	PPM	250	26.0	20.0	21.0	15.0	30.0	24.2	27.0	22.3	22.1	20.0	18.6	40.4	13.3	129.0	34.0	1.9	2.0	1.6	1.5	28.0	16.0
Hardness	PPM	NS	44	41	33	68	64	64	58	75	100	39	64	140	60	280	44	27	260	100	130	170	200
Turbidity	NTU	15	***87.0***	NT	NT	NT	NT	NT	NT	NT	NT	11	NT	NT	NT	45	NT	NT	NT	26	NT	NT	12
Total Organic Halogen	PPM	NS		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND
Total Suspended Solids	PPM	NS	190	NT	NT	NT	NT	NT	NT	NT	NT	3	NT	NT	NT	NT	NT	NT	NT	22	NT	NT	20
Total Dissolved Solids	PPM	500	150	NT	NT	NT	NT	NT	NT	NT	NT	250	NT	NT	NT	NT	NT	NT	NT	83	NT	NT	260
Chemical Oxygen Demand	PPM	NS	36	<14	<20	<10	<10	<10	<10	<10	<10	16	<10	<10	<10	23	<10	<10	<10	18	11	<10	30
Sulfate	PPM	250	37.0	NT	NT	NT	NT	NT	NT	NT	NT	82.2	NT	NT	NT	NT	NT	NT	NT	28.0	NT	NT	140.0
Nitrate Nitrogen	PPM	10	<0.02	<0.02	<0.02	0.28	0.10	0.09	0.17	0.13	<0.05	0.25	0.14	0.65	2.4	<0.1	1.5	<0.1	0.78	0.08	<0.02	0.66	0.07
Nitrate/Nitrite Nitrogen	PPM	NS	<0.02	<0.02	<0.02	<0.05	<0.05	0.09	0.17	0.15	<0.05	0.25	0.14	0.65	2.4	<0.1	2	0.1	0.78	0.08	NT	0.66	0.07
Nitrite Nitrogen	PPM	10	NT	<0.02	<0.02	0.07	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02
Ammonia Nitrogen	PPM	NS	<0.2	NT	NT	NT	NT	NT	NT	NT	NT	<0.2	NT	NT	NT	NT	NT	NT	NT	0.4	NT	NT	<0.2
Metals																							
Arsenic	PPB	10	5	<5	<5	<5	<5	2.3	<2	<2	<2	<2	<2	<2	<2	4.3	<2	2.7	4	13	3	7	<2
Barium	PPB	2,000	90	80	70	90	80	107	86.8	91.6	94.9	85	65.8	56	30	180	74	58	100	130	61	61	49
Cadmium	PPB	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.62	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.3	2.1	<0.5	2.9	2	0.8	<0.5
Calcium	PPB	NS	8,400	NT	NT	NT	NT	NT	NT	NT	NT	7800	NT	NT	NT	NT	NT	NT	NT	6,800	NT	NT	17,000
Chromium	PPB	100	20	<10	<10	<10	<10	2.1	<2	<2	3.5	<2	<2	2.7	3.8	<2	11	5.7	<2	43	4	7	2
Copper	PPB	1,000	<10	<5	NT	NT	NT	NT	NT	NT	NT	4.9	NT	NT	NT	NT	NT	NT	NT	14	NT	NT	<2
Iron	PPB	300	***9,700***	NT	NT	NT	NT	NT	NT	NT	NT	1100	NT	NT	NT	NT	NT	NT	NT	***29,000***	NT	NT	***1,200***
Lead	PPB	15	7	<5	<5	<5	<5	<2	<2	<2	<2	<2	<2	<2	7.4	<2	<2	2.5	<2	12	5	<2	<2
Magnesium	PPB	150,000	5,500	NT	NT	NT	NT	NT	NT	NT	NT	6700	NT	NT	NT	NT	NT	NT	NT	4,400	NT	NT	14,000
Mercury	PPB	2	<5,000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.3	<0.5	<0.5	<0.5
Potassium	PPB	NS	<5,000	NT	NT	NT	NT	NT	NT	NT	NT	<300	NT	NT	NT	NT	NT	NT	NT	3,300	NT	NT	570
Selenium	PPB	50	<5	NT	NT	NT	NT	NT	NT	NT	NT	<5	NT	NT	NT	NT	NT	NT	NT	<5	NT	NT	<5
Sodium	PPB	NS	9,700	NT	NT	NT	NT	NT	NT	NT	NT	23000	NT	NT	NT	NT	NT	NT	NT	1,400	NT	NT	27,000
Zinc	PPB	5,000	100	80	70	60	60	70.5	55	54.2	65.1	62	50.4	18	15.0	69.0	<10	32.0	<10	370	20	20	74
Volatile Organic Compounds																							
Total VOCs	PPB		0	0	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Bold/Shaded results exceed the EPA Maximum Containment Level (MCL) for Drinking Water.
NS - No Standard
ND - None Detected
NT - Not Tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-7

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Indicators			09/21/11	03/26/12	09/20/12	04/26/13	09/19/13	03/27/14
pH	units	6.5-8.5	***5.40***	***5.28***	***4.75***	***5.20***	***4.70***	***4.80***
Alkalinity	PPM	NS	5	20	12	9	<20	<20
Chloride	PPM	250	14	10	10	6.2	7.3	7.5
Total Dissolved Solids	PPM	500	240	200	240	210	210	240
Hardness	PPM	NS	70	64	60	64	52	53
Turbidity	NTU	15	13	2.1	1.7	3.2	1.1	6.9
Nitrate Nitrogen	PPM	10	0.25	0.2	0.16	0.11	0.27	0.2
Sulfate	PPM	250	77	100	110	86	66	69
Specific Conductance	umhos/cm	NS	270	360	260	200	190	220
Chemical Oxygen Demand	PPM	NS	19	<10	<10	<10	18	<10
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	0.7	<0.2
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<5
Arsenic	PPB	10	<2	<2	<2	<2	<2	<2
Barium	PPB	2,000	57	28	60	43	51	45
Beryllium	PPB	4	1.6	1.2	1.7	<2	<2	<2
Cadmium	PPB	5	<0.5	<0.5	<0.5	<2	<2	<2
Calcium	PPB	NS	9,200	12,000	9,700	9,600	6,800	7,300
Chromium	PPB	100	<2	<2	<2	<2	<2	<2
Cobalt	PPB	NS	30	30	26	25	20	24
Copper	PPB	1,300	<2	<2	<2	<2	2	<2
Iron	PPB	300	***830***	50	***320***	200	***1,500***	***390***
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	9,500	9,800	8,600	8,000	6,600	6,900
Manganese	PPB	50	***100***	***116***	***94***	***89***	***81***	***80***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	46	47	40	37	32	32
Potassium	PPB	NS	300	300	300	220	<200	<200
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<1	<1	<1	<2	<2	<2
Sodium	PPB	NS	21,000	21,000	21,000	18,000	17,000	18,000
Thallium	PPB	2	<1	<1	<1	<1	<1	<1
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	57	58	91	47	48	32
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-7

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Volatile Organic Compounds Cont.			**09/21/11**	**03/26/12**	**09/20/12**	**04/26/13**	**09/19/13**	**03/27/14**
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-7

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Indicators			09/23/14	03/25/15	09/28/15	03/30/16	10/27/16
pH	units	6.5-8.5	***4.50***	***4.50***	***4.67***	***4.67***	***5.59***
Alkalinity	PPM	NS	<20	<20	<20	<20	<20
Chloride	PPM	250	11	8.5	14	16	15
Total Dissolved Solids	PPM	500	200	170	310	160	310
Hardness	PPM	NS	70	52	39	53	57
Turbidity	NTU	15	1.80	5.00	2.10	0.68	<5
Nitrate Nitrogen	PPM	10	0.16	0.25	0.20	0.22	0.15
Sulfate	PPM	250	53	65	63	61	62
Specific Conductance	umhos/cm	NS	150	190	170	230	213
Chemical Oxygen Demand	PPM	NS	<10	<10	10	<10	<10
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	0.5	<0.2	<0.2
Metals	**Units**	**MCL**					
Antimony	PPB	6	<5	<5	<5	<5	<5
Arsenic	PPB	10	<2	<2	<2	<2	<2
Barium	PPB	2,000	49	45	44	52	50
Beryllium	PPB	4	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	<2	<2
Calcium	PPB	NS	5,400	7,900	3,100	9,700	8,960
Chromium	PPB	100	<2	4	<2	<2	<2
Cobalt	PPB	NS	19	20	20	25	24
Copper	PPB	1,300	<2	<2	<2	<2	<2
Iron	PPB	300	220	250	170	<50	<50
Lead	PPB	15	<2	<2	<2	<2	<2
Magnesium	PPB	NS	5,100	6,700	5,600	8,000	7,690
Manganese	PPB	50	***71***	***68***	***82***	***78***	***87***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	29	28	30	36	35
Potassium	PPB	NS	310	270	<200	210	510
Selenium	PPB	50	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2
Sodium	PPB	NS	13,000	15,200	15,000	16,000	15,200
Thallium	PPB	2	<1	<1	<1	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2
Zinc	PPB	5,000	51	48	50	49	51
Volatile Organic Compounds	**Units**	**MCL**					
Acetone	PPB	NS	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-7

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Volatile Organic Compounds Cont.			09/23/14	03/25/15	09/28/15	03/30/16	10/27/16
Chloromethane	PPB	NS	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-7

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Indicators			03/29/17	09/18/17	03/28/18	09/27/18	03/25/19	09/24/19
pH	units	6.5-8.5	***3.74***	***4.64***	***3.48***	***5.59***	***5.31***	***5.04***
Alkalinity	PPM	NS	<20	<20	<20	60	77	<20
Chloride	PPM	250	18	23	17	22	47	39
Total Dissolved Solids	PPM	500	210	190	250	430	***510***	400
Hardness	PPM	NS	68	60	72	160	290	120
Turbidity	NTU	15	<5	<5	<5	<5	***22.5***	<5
Nitrate Nitrogen	PPM	10	0.12	0.12	0.17	0.13	3.30	0.12
Sulfate	PPM	250	62	63	73	130	230	120
Specific Conductance	umhos/cm	NS	271	204	272	433	621	352
Chemical Oxygen Demand	PPM	NS	<10	<10	<10	18	27	<10
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<2
Arsenic	PPB	10	<2	<2	<2	<2	<2	<2
Barium	PPB	2,000	67	56	51	70	72	43
Beryllium	PPB	4	<2	<2	<2	<2	<2	4
Cadmium	PPB	5	<2	<2	<2	<2	<2	<4
Calcium	PPB	NS	9,550	9,470	13,200	46,400	86,000	20,200
Chromium	PPB	100	<2	<2	<2	<2	<2	<10
Cobalt	PPB	NS	32	29	30	22	34	43
Copper	PPB	1,300	<2	<2	<2	<2	<2	<10
Iron	PPB	300	90	<50	117	<50	<50	181
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	8,970	8,870	11,200	14,500	26,500	14,600
Manganese	PPB	50	***107***	***108***	***88***	***60***	***746***	***199***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	47	39	40	36	51	62
Potassium	PPB	NS	200	272	320	940	824	408
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2	<10
Sodium	PPB	NS	15,700	17,900	19,000	26,200	50,500	25,200
Thallium	PPB	2	<2	<2	<2	<2	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	58	60	46	41	56	77
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-7

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Volatile Organic Compounds Cont.			03/29/17	09/18/17	03/28/18	09/27/18	03/25/19	09/24/19
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R. B. Baker & Sons Rubble Landfill
Groundwater Monitoring Test Results
Monitoring Well W-8

Analyte			SA-36	SA-38	SA-40	SA-42	SA-44	SA-46	SA-48	SA-50	SA-52	SA-54	SA-56	SA-58	SA-60	SA-62	SA-64	SA-66	SA-68	SA-69	SA-70	SA-71	SA-72
Indicators	**Units**	**MCL**	11/20/00	5/21/01	11/27/01	5/16/02	12/2/02	5/29/03	10/24/03	4/28/04	12/6/04	6/13/04	11/14/05	05/16/06	10/19/06	05/01/07	12/20/07	06/24/08	03/13/09	07/17/09	01/29/10	07/30/10	02/17/11
pH	units	6.5-8.5	***4.3***	***4.7***	***4.0***	***4.5***	***4.5***	***5.3***	***5.2***	***5.1***	***4.3***	***4.2***	***5.5***	***5.4***	***5.9***	***5.6***	***5.7***	***NT***	***5.4***	***6.2***	6.9	***5.9***	***5.3***
Conductance (Specific)	umhos/cm	NS	280	220	256	265	215	6.1	220	110	170	98	190	420	130	1,100	200	94	97	62	57	73	86
Alkalinity	PPM	NS	6	3	<4	<1	20	96	1	<1	8	1	4	32	4	250	<1	8	4	4	8	7	<1.0
Chloride	PPM	250	6.0	3.0	5.5	4.1	7.4	8.0	4.1	3.0	2.7	1.6	3.5	35.9	2.2	133.0	4.2	1.8	1.6	1.4	<1	2.5	1.6
Hardness	PPM	NS	110	91	80	84	78	1.1	96	52	140	<1	76	160	44	280	72	22	40	96	72	60	40
Turbidity	NTU	15	***41.0***	NT	NT	NT	NT	***36.0***	NT	NT	NT	12.0	NT	NT	NT	40.0	NT	NT	NT	1.0	NT	NT	***18.0***
Total Organic Halogen	PPM	NS	<0.005	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND
Total Suspended Solids	PPM	NS	74	NT	NT	NT	NT	NT	NT	NT	NT	7	NT	NT	NT	NT	NT	NT	NT	<1	NT	NT	15
Total Dissolved Solids	PPM	500	230	NT	NT	NT	NT	NT	NT	NT	NT	74	NT	NT	NT	NT	NT	NT	NT	76	NT	NT	56
Chemical Oxygen Demand	PPM	NS	<14	<14	27	<10	<10	NT	NT	<10	18	<10	<10	<10	<10	39	<10	<10	<10	<10	32	12	15
Sulfate	PPM	250	100.0	NT	NT	NT	NT	<10	NT	NT	NT	34.8	NT	NT	NT	NT	NT	NT	NT	27.0	NT	NT	35.0
Nitrate Nitrogen	PPM	10	1.1	0.86	1.40	0.82	0.37	NT	0.55	0.18	0.25	0.13	0.32	0.62	0.20	<0.1	0.51	<0.1	0.76	0.09	<0.02	<0.02	<0.02
Nitrite Nitrogen	PPM	10	<0.02	<0.02	<0.02	<0.05	<0.05	0.11	<0.5	<0.05	<0.05	<0.05	<0.1	0.62	0.20	<0.1	<0.1	<0.1	0.76	0.09	<0.02	<0.02	<0.02
Nitrate/Nitrite Nitrogen	PPM	NS	1.1	0.86	1.4	1.2	0.39	0.11	0.55	0.14	0.25	0.13	0.32	<0.1	<0.1	<0.1	0.63	0.04	<0.02	<0.02	NT	<0.02	<0.02
Ammonia Nitrogen	PPM	NS	<0.2	NT	NT	NT	NT	<0.05	NT	NT	NT	<0.2	NT	NT	NT	NT	NT	NT	NT	0.5	NT	NT	<0.2
Metals																							
Arsenic	PPB	10	<5	<5	<5	<5	<5	<2	<2	<2	<2	<2	<2	<2	<2	***36***	3.1	<2	<2	<2	<2	3	<2
Barium	PPB	2,000	<50	<50	<50	<50	<50	33.5	50	38	29	43	34.7	45.0	49	150	50	55	47	72	54	65	77
Cadmium	PPB	5	***8***	***6.3***	4.9	***5.6***	2.9	3	***6.7***	3.9	***5.3***	3.3	***5.6***	<0.5	3.8	<0.5	***5.4***	2.1	2.9	2.7	1.8	1.4	***5.8***
Calcium	PPB	NS	27,000	NT	NT	NT	NT	NT	NT	NT	NT	7,100	NT	NT	NT	NT	NT	NT	NT	5,800	NT	NT	7,300
Chromium	PPB	100	10	10	<10	20	<10	2.3	6.7	2.6	4.0	<2	2.8	<2	2.8	<2	<2	2	<2	<2	<2	3	2
Copper	PPB	1,000	<10	NT	NT	NT	NT	NT	NT	NT	NT	3.9	NT	NT	NT	NT	NT	NT	NT	<2	NT	NT	<2
Iron	PPB	300	***7,900***	NT	NT	NT	NT	NT	NT	NT	NT	480	NT	NT	NT	NT	NT	NT	NT	***690***	NT	NT	***1,800***
Lead	PPB	15	<5	<5	<5	<5	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	4.3	<2	<2	<2	<2	4	<2
Magnesium	PPB	150,000	10,000	NT	NT	NT	NT	NT	NT	NT	NT	1,800	NT	NT	NT	NT	NT	NT	NT	1,700	NT	NT	1,900
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.52	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Potassium	PPB	NS	<5,000	NT	NT	NT	NT	NT	NT	NT	NT	1,100	NT	NT	NT	NT	NT	NT	NT	1,000	NT	NT	920
Selenium	PPB	50	<5	NT	NT	NT	NT	NT	NT	NT	NT	<5	NT	NT	NT	NT	NT	NT	NT	<5	NT	NT	<5
Sodium	PPB	NS	1,900	NT	NT	NT	NT	NT	NT	NT	NT	1,800	NT	NT	NT	NT	NT	NT	NT	1,200	NT	NT	1,400
Zinc	PPB	5,000	110	100	70	90	60	54.3	80.4	35.8	71.6	45.0	54.6	12.0	50.0	53.0	34.0	27.0	30.0	210	20	30	63
Volatile Organic Compounds																							
Total VOCs	PPB		0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Bold/Shaded results exceed the EPA Maximum Containment Level (MCL) for Drinking Water.
NS - No Standard
ND - None Detected
NT - Not Tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-8

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Indicators			09/21/11	03/26/12	09/20/12	04/26/13	09/19/13	03/27/14
pH	units	6.5-8.5	***5.60***	***6.18***	***5.02***	***4.90***	***4.30***	***4.60***
Alkalinity	PPM	NS	3	4	12	<1	<20	<20
Chloride	PPM	250	2.4	1.5	1.4	1.2	19	<1
Total Dissolved Solids	PPM	500	34	38	73	48	140	53
Hardness	PPM	NS	30	24	20	26	76	17
Turbidity	NTU	15	2.4	4.3	4.0	3.9	2.4	2.7
Nitrate Nitrogen	PPM	10	<0.02	<0.02	<0.02	<0.05	0.88	<0.05
Sulfate	PPM	250	<10	30	23	35	49	11
Specific Conductance	umhos/cm	NS	56	73	97	54	190	57
Chemical Oxygen Demand	PPM	NS	<10	<10	<10	<10	<10	<10
Ammonia Nitrogen	PPM	NS	0.3	<0.2	<0.2	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<5
Arsenic	PPB	10	<2	<2	<2	<2	<2	<2
Barium	PPB	2,000	49	43	76	55	23	51
Beryllium	PPB	4	0.5	<0.5	<0.5	<2	<2	<2
Cadmium	PPB	5	<0.5	2.7	<0.5	5.0	***8.0***	2.0
Calcium	PPB	NS	4,100	5,300	37,000	6,500	20,000	4,200
Chromium	PPB	100	<2	<2	<2	<2	<2	<2
Cobalt	PPB	NS	6	4	<2	5	20	5
Copper	PPB	1,300	<2	<2	<2	<2	<2	<2
Iron	PPB	300	***730***	***510***	<50	***770***	***660***	***3,100***
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	1,100	1,300	4,700	1,200	4,800	1,000
Manganese	PPB	50	***400***	***367***	10	***405***	***1,680***	***370***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	11	12	4	13	37	8
Potassium	PPB	NS	1,100	780	3,300	700	2,400	630
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<1	<1	<1	<2	<2	<2
Sodium	PPB	NS	1,300	1,100	15,000	1,000	4,400	990
Thallium	PPB	2	<1	<1	<1	<1	<1	<1
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	21	29	39	47	74	<20
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-8

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Volatile Organic Compounds Cont.			**09/21/11**	**03/26/12**	**09/20/12**	**04/26/13**	**09/19/13**	**03/27/14**
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-8

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Indicators			**09/23/14**	**03/25/15**	**09/28/15**	**03/30/16**	**10/27/16**
pH	units	6.5-8.5	***5.30***	***5.10***	***4.58***	***4.72***	***5.16***
Alkalinity	PPM	NS	20	<20	<20	<20	<20
Chloride	PPM	250	4.1	<1	22	1.2	17
Total Dissolved Solids	PPM	500	130	30	370	43	270
Hardness	PPM	NS	42	30	130	17	120
Turbidity	NTU	15	1.80	3.00	3.20	14.00	<5
Nitrate Nitrogen	PPM	10	<0.05	<0.05	0.29	0.09	0.12
Sulfate	PPM	250	16	13	120	17	110
Specific Conductance	umhos/cm	NS	63	42	320	61	330
Chemical Oxygen Demand	PPM	NS	<10	<10	<10	<10	10
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	0.3	<0.2	0.2
Metals	**Units**	**MCL**					
Antimony	PPB	6	<5	<5	<5	<5	<5
Arsenic	PPB	10	9	<2	<2	<2	<2
Barium	PPB	2,000	46	30	245	43	276
Beryllium	PPB	4	<2	<2	2	<2	2
Cadmium	PPB	5	<2	<2	***10***	<2	4
Calcium	PPB	NS	5,200	4,400	32,000	4,800	26,600
Chromium	PPB	100	<2	<2	<2	<2	<2
Cobalt	PPB	NS	10	2	29	10	53
Copper	PPB	1,300	<2	<2	<2	<2	<2
Iron	PPB	300	***6,500***	***310***	***460***	***3,400***	***2,000***
Lead	PPB	15	<2	<2	<2	<2	<2
Magnesium	PPB	NS	1,200	860	8,300	1,100	8,080
Manganese	PPB	50	***590***	***152***	***2,750***	***482***	***3,370***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	9	5	51	10	49
Potassium	PPB	NS	1,200	600	2,300	610	1,990
Selenium	PPB	50	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2
Sodium	PPB	NS	1,500	900	8,800	1,000	8,610
Thallium	PPB	2	<1	<1	<1	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2
Zinc	PPB	5,000	24	29	93	22	91
Volatile Organic Compounds	**Units**	**MCL**					
Acetone	PPB	NS	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-8

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Volatile Organic Compounds Cont.			09/23/14	03/25/15	09/28/15	03/30/16	10/27/16
Chloromethane	PPB	NS	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-8

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Indicators			03/29/17	09/19/17	03/28/18	09/27/18	03/25/19	09/24/19
pH	units	6.5-8.5	***3.80***	***5.14***	***3.61***	***4.84***	***4.38***	***4.77***
Alkalinity	PPM	NS	<20	<20	<20	<20	<20	<20
Chloride	PPM	250	1.5	1.9	1.8	2.0	2.1	14.0
Total Dissolved Solids	PPM	500	42	50	74	27	44	280
Hardness	PPM	NS	19	15	21	16	7	100
Turbidity	NTU	15	9.7	<5	<5	<5	***49.8***	<5
Nitrate Nitrogen	PPM	10	<0.05	0.05	0.05	0.17	0.05	0.06
Sulfate	PPM	250	11	<10	29	<10	<10	87
Specific Conductance	umhos/cm	NS	63	44	76	56	21	219
Chemical Oxygen Demand	PPM	NS	<10	48	<10	29	<10	11
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<2
Arsenic	PPB	10	<2	<2	<2	<2	<2	<2
Barium	PPB	2,000	71	47	60	38	15	190
Beryllium	PPB	4	<2	<2	<2	<2	<2	<2
Cadmium	PPB	5	2	<2	***6***	<2	<2	5
Calcium	PPB	NS	4,450	3,570	6,330	4,590	2,810	20,300
Chromium	PPB	100	<2	<2	<2	<2	<2	<10
Cobalt	PPB	NS	11	9	9	7	2	24
Copper	PPB	1,300	<2	<2	<2	<2	<2	<10
Iron	PPB	300	***940***	***1,980***	194	***1,530***	***2,860***	***1,060***
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	1,050	974	2,040	1,090	521	6,040
Manganese	PPB	50	***579***	***395***	***487***	***340***	***72***	***1,480***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	14	10	15	10	3	36
Potassium	PPB	NS	720	685	720	780	186	1,120
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2	<10
Sodium	PPB	NS	860	1,060	1,280	1,440	785	7,170
Thallium	PPB	2	<2	<2	<2	<2	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	3	<2
Zinc	PPB	5,000	38	28	72	23	<20	83
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-8

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Volatile Organic Compounds Cont.			03/29/17	09/19/17	03/28/18	09/27/18	03/25/19	09/24/19
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R. B. Baker & Sons Rubble Landfill
Groundwater Monitoring Test Results
Monitoring Well W-9

Analyte			SA-36	SA-38	SA-40	SA-42	SA-44	SA-46	SA-48	SA-50	SA-52	SA-54	SA-56	SA-58	SA-60	SA-62	SA-64	SA-66	SA-68	SA-69	SA-70	SA-71	SA-72
Indicators	**Units**	**MCL**	11/20/00	5/24/01	11/27/01	5/16/02	12/2/02	5/29/03	10/24/03	4/28/04	12/6/04	6/13/04	11/14/05	05/16/06	10/19/06	05/01/07	12/20/07	06/24/08	03/13/09	07/17/09	01/29/10	07/30/10	02/17/11
pH	units	6.5-8.5	6.9	***5.2***	***5.2***	***5.4***	***5.8***	***3.9***	***6.1***	***5.9***	***5.6***	***5.1***	***6.1***	***6.3***	***5.6***	***5.6***	***NT***	***NT***	***5.1***	***5.5***	***6.1***	***6.1***	***5.79***
Conductance (Specific)	umhos/cm	NS	420	380	467	392	415	5.8	450	420	390	420	360	420	390	1,100	450	450	430	350	450	440	370
Alkalinity	PPM	NS	14	12	8	13	12	410	22	20	32	26	32	36	36	230	34	28	44	2	36	45	34
Chloride	PPM	250	49.0	49.0	39.0	21.0	33.0	24.0	33.6	<0.5	41.0	36.5	38.6	42.4	37.7	129.0	47.0	49.0	41.0	33	32	35	33
Hardness	PPM	NS	160	150	150	120	140	40.4	160	140	220	76	140	170	140	310	150	160	160	210	200	160	150
Turbidity	NTU	15	***160.0***	NT	NT	NT	NT	***150.0***	NT	NT	NT	3.2	NT	NT	NT	40.0	NT	NT	NT	1.7	NT	NT	0.8
Total Organic Halogen	PPM	NS	0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	ND
Total Suspended Solids	PPM	NS	240	NT	NT	NT	NT	NT	NT	NT	NT	2	NT	NT	NT	NT	NT	NT	NT	7	NT	NT	<1
Total Dissolved Solids	PPM	500	300	NT	NT	NT	NT	NT	NT	NT	NT	240	NT	NT	NT	NT	NT	NT	NT	210	NT	NT	210
Chemical Oxygen Demand	PPM	NS	39	<14	<20	<10	10	NT	NT	<10	14	12	<10	<10	<10	18	<10	<10	<10	<10	13	25	24
Sulfate	PPM	250	97.0	NT	NT	NT	NT	<10	NT	NT	NT	110	NT	NT	NT	NT	NT	NT	NT	130	NT	NT	96
Nitrate Nitrogen	PPM	10	1.67	1.58	1.30	0.82	0.75	NT	1.5	<0.5	0.57	0.77	0.50	0.59	0.53	<0.1	0.72	0.89	0.91	0.48	0.86	0.50	0.68
Nitrite Nitrogen	PPM	10	0.03	0.02	<0.02	<0.05	<0.05	1.3	<0.05	<0.5	<0.05	<0.05	<0.1	0.59	0.53	<0.1	<0.1	<0.1	0.91	0.48	<0.02	<0.02	<0.02
Nitrate/Nitrite Nitrogen	PPM	NS	1.7	1.6	1.30	0.93	0.86	1.3	1.5	1.1	0.57	0.77	0.50	<0.1	<0.1	<0.1	0.58	0.69	<0.02	<0.02	NT	0.50	0.68
Ammonia Nitrogen	PPM	NS	<0.2	NT	NT	NT	NT	<0.05	NT	NT	NT	<0.2	NT	NT	NT	NT	NT	NT	NT	0.2	NT	NT	<0.2
Metals																							
Arsenic	PPB	10	<5	<5	6	<5	<5	<2	<2	<2	<2	<2	<2	<2	<2	4	<2	2.2	<2	<2	<2	<2	<2
Barium	PPB	2,000	110	130	180	150	130	103	97.7	115	101	85	84.6	44.0	82	160	85	97	120	120	96	96	79
Cadmium	PPB	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5
Calcium	PPB	NS	52,000	NT	NT	NT	NT	NT	NT	NT	NT	40,000	NT	NT	NT	NT	NT	NT	NT	57,000	NT	NT	41,000
Chromium	PPB	100	<10	<10	10	<10	<10	<2	12.7	2.1	4.4	<2	2.3	<2	<2	<2	7.9	<2	<2	<2	<2	<2	<2
Copper	PPB	1,000	<10	NT	NT	NT	NT	NT	NT	NT	NT	2.8	NT	NT	NT	NT	NT	NT	NT	<2	NT	NT	<2
Iron	PPB	300	***7,000***	***NT***	***NT***	***NT***	***NT***	***NT***	***NT***	***NT***	***NT***	***410***	***NT***	***NT***	***NT***	***NT***	***NT***	***NT***	***NT***	***680***	NT	NT	130
Lead	PPB	15	<5	<5	<5	<5	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Magnesium	PPB	150,000	6,800	NT	NT	NT	NT	NT	NT	NT	NT	4,400	NT	NT	NT	NT	NT	NT	NT	7100	NT	NT	5,500
Mercury	PPB	2	<0.5	<0.5	0.6	0.7	<0.5	<0.5	<0.5	<0.5	1.3	1.8	***6.6***	***9.9***	***3.7***	<0.5	***6.8***	***22***	***8.1***	***7.1***	***2.1***	***13***	<0.5
Potassium	PPB	NS	<5,000	NT	NT	NT	NT	NT	NT	NT	NT	2,200	NT	NT	NT	NT	NT	NT	NT	4,300	NT	NT	3,400
Selenium	PPB	50	<5	NT	NT	NT	NT	NT	NT	NT	NT	<5	NT	NT	NT	NT	NT	NT	NT	<5	NT	NT	<5
Sodium	PPB	NS	13,000	NT	NT	NT	NT	NT	NT	NT	NT	16,000	NT	NT	NT	NT	NT	NT	NT	17,000	NT	NT	15,000
Zinc	PPB	5,000	30	40	40	30	20	36.3	<25	14.8	21.9	21.0	11.9	11.0	15.0	51.0	<10	13.0	10.0	50	<10	20	22
Volatile Organic Compounds																							
MTBE	PPB	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.60	ND	ND
Total VOCs	PPB		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.60	ND	ND

Bold/Shaded results exceed the EPA Maximum Containment Level (MCL) for Drinking Water.
NS - No Standard
ND - None Detected
NT - Not Tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-9

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Indicators			09/21/11	03/26/12	09/20/12	04/26/13	09/19/13	03/27/14
pH	units	6.5-8.5	***6.20***	7.42	***5.36***	***5.50***	***5.20***	***5.30***
Alkalinity	PPM	NS	57	40	36	36	35	35
Chloride	PPM	250	43	33	39	44	41	42
Total Dissolved Solids	PPM	500	260	190	220	200	210	210
Hardness	PPM	NS	130	96	96	120	110	120
Turbidity	NTU	15	1.5	0.1	<0.05	0.2	0.1	1.1
Nitrate Nitrogen	PPM	10	0.23	0.49	0.33	0.26	0.49	0.3
Sulfate	PPM	250	54	68	37	56	52	47
Specific Conductance	umhos/cm	NS	400	380	350	300	330	350
Chemical Oxygen Demand	PPM	NS	<10	<10	<10	<10	<10	<10
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<5
Arsenic	PPB	10	<2	<2	4	<2	<2	<2
Barium	PPB	2,000	71	56	58	77	86	77
Beryllium	PPB	4	<0.5	<0.5	1.1	<2	<2	<2
Cadmium	PPB	5	<0.5	<0.5	0.7	<2	<2	<2
Calcium	PPB	NS	54,000	34,000	5,500	40,000	38,000	34,000
Chromium	PPB	100	<2	<2	<2	<2	<2	<2
Cobalt	PPB	NS	6	<2	1	<2	<2	<2
Copper	PPB	1,300	<2	<2	<2	<2	<2	<2
Iron	PPB	300	140	<50	***4,500***	110	<50	***310***
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	7,600	4,400	1,500	4,700	4,700	4,200
Manganese	PPB	50	***720***	41	***610***	27	9	17
Mercury	PPB	2	***3.7***	0.7	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	6	4	16	5	5	<2
Potassium	PPB	NS	3,700	2,800	1,300	2,800	3,100	2,500
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<1	<1	<1	<2	<2	<2
Sodium	PPB	NS	18,000	13,000	1,600	14,000	15,000	14,000
Thallium	PPB	2	<1	<1	<1	<1	<1	<1
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	28	19	43	16	<20	<20
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-9

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Volatile Organic Compounds Cont.			**09/21/11**	**03/26/12**	**09/20/12**	**04/26/13**	**09/19/13**	**03/27/14**
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-9

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Indicators			09/23/14	03/25/15	09/28/15	03/30/16	10/27/16
pH	units	6.5-8.5	***5.10***	***5.10***	***5.38***	***5.18***	***5.72***
Alkalinity	PPM	NS	34	35	38	35	36
Chloride	PPM	250	42	46	46	45	42
Total Dissolved Solids	PPM	500	290	200	350	210	310
Hardness	PPM	NS	120	120	120	120	130
Turbidity	NTU	15	0.25	0.22	<0.05	0.11	<5
Nitrate Nitrogen	PPM	10	0.44	0.20	0.21	0.24	0.39
Sulfate	PPM	250	57	52	54	40	73
Specific Conductance	umhos/cm	NS	290	310	330	360	375
Chemical Oxygen Demand	PPM	NS	<10	<10	<10	<10	<10
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**					
Antimony	PPB	6	<5	<5	<5	<5	<5
Arsenic	PPB	10	<2	<2	<2	<2	<2
Barium	PPB	2,000	79	75	77	84	92
Beryllium	PPB	4	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	<2	<2
Calcium	PPB	NS	35,000	38,000	37,000	41,000	44,600
Chromium	PPB	100	<2	<2	<2	<2	<2
Cobalt	PPB	NS	<2	<2	<2	<2	<2
Copper	PPB	1,300	<2	<2	<2	<2	<2
Iron	PPB	300	<50	<50	<50	<50	<50
Lead	PPB	15	<2	<2	<2	<2	<2
Magnesium	PPB	NS	4,400	4,500	4,800	5,200	5,870
Manganese	PPB	50	9	17	***283***	12	21
Mercury	PPB	2	<0.5	<0.5	0.60	<0.5	<0.5
Nickel	PPB	NS	4	4	4	5	5
Potassium	PPB	NS	3,100	2,800	3,200	3,400	3,940
Selenium	PPB	50	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2
Sodium	PPB	NS	13,000	14,000	14,000	14,000	13,600
Thallium	PPB	2	<1	<1	<1	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2
Zinc	PPB	5,000	24	<20	21	<20	<20
Volatile Organic Compounds	**Units**	**MCL**					
Acetone	PPB	NS	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-9

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Volatile Organic Compounds Cont.			09/23/14	03/25/15	09/28/15	03/30/16	03/30/16
Chloromethane	PPB	NS	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-9

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Indicators			03/29/17	09/19/17	03/28/18	09/27/18	03/25/19	09/24/19
pH	units	6.5-8.5	***5.09***	***5.34***	***4.63***	***5.06***	***4.74***	***5.36***
Alkalinity	PPM	NS	32	28	24	27	28	29
Chloride	PPM	250	45	37	31	33	30	32
Total Dissolved Solids	PPM	500	370	310	220	240	270	270
Hardness	PPM	NS	130	150	110	150	120	120
Turbidity	NTU	15	<5	<5	<5	<5	***21.5***	<5
Nitrate Nitrogen	PPM	10	0.32	0.44	0.39	0.31	0.41	0.55
Sulfate	PPM	250	53	81	53	98	70	80
Specific Conductance	umhos/cm	NS	312	314	308	378	278	279
Chemical Oxygen Demand	PPM	NS	<10	<10	<10	12	<10	<10
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<2
Arsenic	PPB	10	<2	<2	<2	<2	<2	<2
Barium	PPB	2,000	81	97	74	97	82	75
Beryllium	PPB	4	<2	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	<2	<2	<4
Calcium	PPB	NS	36,800	41,700	37,500	49,100	46,600	34,100
Chromium	PPB	100	<2	<2	<2	<2	<2	<10
Cobalt	PPB	NS	<2	<2	<2	<2	<2	<10
Copper	PPB	1,300	<2	<2	<2	<2	<2	<10
Iron	PPB	300	<50	<50	<50	<50	<50	160
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	4,660	5,520	5,010	5,860	4,880	4,440
Manganese	PPB	50	14	16	13	20	14	14
Mercury	PPB	2	0.60	***2.10***	<0.5	0.60	<0.5	0.70
Nickel	PPB	NS	5	6	4	5	5	<10
Potassium	PPB	NS	3,280	3,930	3,760	3,830	3,180	3,310
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2	<10
Sodium	PPB	NS	12,100	13,400	13,000	16,100	14,300	12,900
Thallium	PPB	2	<2	<2	<2	<2	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	<20	<20	<20	20	<20	19
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-9

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Volatile Organic Compounds Cont.			03/29/17	09/19/17	03/28/18	09/27/18	03/25/19	09/24/19
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. Baker & Sons Rubble Landfill
Groundwater Monitoring Test Results
Monitoring Well W-10

Analyte			SA-50	SA-51	SA-52	SA-53	SA-54	SA-55	SA-56	SA-57	SA-58	SA-59	SA-60	SA-61	SA-62	SA-63	SA-64	SA-65	SA-66	SA-67	SA-68	SA-69	SA-70	SA-71	SA-72
Indicators	**Units**	**MCL**	2/24/04	9/7/04	12/6/04	2/8/05	6/13/05	9/21/05	11/14/05	02/01/06	05/16/06	07/20/06	10/19/06	02/21/07	04/30/07	08/02/07	12/20/07	03/17/08	06/24/08	09/30/08	03/10/09	07/17/09	01/29/10	07/30/10	02/17/11
pH	units	6.5-8.5	***4.9***	***6.2***	***6.1***	6.6	***5.9***	***5.3***	***5.2***	***5.6***	***6.1***	***5.2***	***5.7***	***5.7***	***5.4***	***5.7***	***6.0***	***5.2***	***NT***	***6.10***	***5.80***	***5.80***	***6.00***	***5.20***	***6.12***
Conductance (Specific)	umhos/cm	NS	600	1,400	860	1,500	1,100	1,000	1,400	850	1,600	230	340	600	-	760	620	510	250	750	640	200	250	600	510
Alkalinity	PPM	NS	140	480	220	420	240	240	500	190	550	8	48	110	130	120	150	92	24	200	140	4	20	100	90
Chloride	PPM	250	76.0	185.0	100.0	127.0	92.3	104.0	125.0	64.7	141.0	12.0	17.6	33.5	37.0	63.5	63.0	31.0	14.0	74	45	7.7	5.2	51	34
Hardness	PPM	NS	250	640	350	570	390	430	72	370	180	96	120	260	170	260	200	170	88	52	260	150	110	200	220
Turbidity	NTU	15	8.0	***900.0***	14.0	***220.0***	***22.0***	1.1	0.57	***95.0***	***80.0***	6.5	5.6	***19.0***	6.6	***16.0***	5.8	5.2	7.7	***39.0***	13.0	2.1	7.9	2.0	7.7
Total Organic Halogen	PPM	NS	0.034	0.024	0.110	0.220	0.078	0.14	0.15	0.069	0.140	0.052	0.050	0.035	0.026	0.062	0.052	0.058	0.022	0.100	0.037	<0.2	ND	0.041	ND
Total Suspended Solids	PPM	NS	6	130	3	9	3	2	2	3	13	1	2	2	4	4	1	3	5	43	3	<1	4	3	7
Total Dissolved Solids	PPM	500	370	***1,100***	***590***	***840***	***670***	***730***	***910***	***500***	***890***	230	190	330	260	490	330	290	160	460	400	180	170	390	320
Chemical Oxygen Demand	PPM	NS	<10	78	50	98	61	52	77	20	76	<10	<10	<10	32	23	23	27	<10	30	25	<10	<10	15	13
Sulfate	PPM	250	71.8	<0.05	175.0	148.0	184.0	164.0	116.0	139.0	87.1	79.5	87.0	121.0	25.0	170.0	94.0	76.0	130.0	94	160	85	70	110	*
Nitrate Nitrogen	PPM	10	0.66	0.061	0.250	0.270	0.51	0.26	<0.1	0.77	0.35	0.78	0.76	0.84	<0.1	0.74	1.30	<0.02	0.76	0.17	1.2	1	0.41	0.55	0.07
Nitrate/Nitrite Nitrogen	PPM	NS	0.42	<0.02	0.25	0.30	0.51	0.26	<0.1	0.77	0.35	0.78	0.76	0.84	<0.1	0.74	0.57	0.17	0.60	NT	1.2	1	NT	0.55	0.07
Nitrite Nitrogen	PPM	10	<0.05	<0.05	<0.05	0.03	<0.05	<0.1	<0.1	<0.1	<0.1	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	0.34	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Ammonia Nitrogen	PPM	NS	<0.2	1.5	0.8	2.5	0.6	0.7	0.9	0.7	1.6	<0.2	<0.2	<0.2	<0.2	<0.2	1.6	0.9	0.5	2.3	0.6	0.2	<0.2	0.4	0.5
Metals																									
Arsenic	PPB	10	<2	2.1	<2	<2	<2	<2	<2	<2	<2	<2	3	<2	4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Barium	PPB	2,000	81.2	230.0	91.8	172.0	100.0	104.0	128.0	86.0	85.0	57.0	65	60	47	50	38	39	55	98	470	49	41	71	64
Cadmium	PPB	5	1.20	0.79	1.00	0.74	0.70	0.58	0.69	<0.5	<0.5	<0.5	<0.5	2	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium	PPB	NS	61,800	130,000	73,200	97,200	70,000	82,800	112,000	58,000	45,000	18,000	31,000	44,000	35,000	46,000	29,000	31,000	21,000	49,000	44,000	17,000	19,000	41,000	41,000
Chromium	PPB	100	<2	3.2	3.2	2.1	<2	15.3	2.8	5.4	3.7	4.3	6	2	3	<2	19	5	4	<2	<2	<2	<2	<2	<2
Copper	PPB	1,000	2.3	6.9	3.3	4.5	2.7	2.2	3.0	4.6	6.2	4.0	<2	16	3	3	<2	<2	<2	<2	<2	<2	<2	<2	<2
Iron	PPB	300	***719***	***1,600***	***405***	***1,580***	***670***	<100	297	***4,100***	***2,900***	***1,800***	***1,400***	150	***400***	***300***	225	***840***	***3,000***	240	190	120	90	50	***540***
Lead	PPB	15	<2	4.1	<2	<2	<2	<2	<2	2.6	<2	<2	11	7	<2	<2	<2	<2	<2	3	<2	<2	<2	<2	<2
Magnesium	PPB	150,000	13,600	68,000	35,600	58,800	36,000	47,400	60,600	33,000	28,000	12,000	16,000	24,000	19,000	28,000	17,000	19,000	12,000	31,000	29,000	1,000	10,000	23,000	24,000
Mercury	PPB	2	<0.5	1.1	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<.5	<0.5	1.10	<0.5	<0.5	<0.5	<0.5	<0.5
Potassium	PPB	NS	4,220	12,000	6,110	7,890	8,200	8,850	10,900	5,500	4,900	3,200	4,000	6,600	500	6,500	7,000	6,100	4,200	9,300	8,800	3,300	2,500	6,700	4,400
Selenium	PPB	50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Sodium	PPB	NS	40,000	110,000	49,900	93,300	58,000	66,100	105,000	51,000	47,000	9,700	26,000	53,000	33,000	40,000	37,000	28,000	13,000	44,000	40,000	7,900	5,300	29,000	20,000
Zinc	PPB	5,000	10.3	39.0	36.8	33.6	19.0	11.0	21.2	55.0	40.0	18.0	12	***5,400***	44	31	<10	12	14	20	<10	<10	10	10	13
Volatile Organic Compounds																									
Benzene	PPB	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichloromethane	PPB		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	PPB	70	ND	7.9	4.0	ND	ND	ND	4.6	2.6	ND	ND	ND	ND	ND	ND	1.0	ND	ND	2.9	0.5	ND	ND	ND	0.5
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	PPB	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	0.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs	PPB		0.00	8.41	4.00	0.00	0.00	0.00	4.60	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	2.9	0	0	0	0	0.5

Bold/Shaded results exceed the EPA Maximum Containment Level (MCL) for Drinking Water.
NS - No Standard
ND - None Detected
NT - Not Tested
* - Sulfate results were in the 3000 mg/L range. It is suspected that this is a result of laboratory contamination.

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-10

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Indicators			09/21/11	03/26/12	09/20/12	04/26/13	09/19/13	03/27/14
pH	units	6.5-8.5	***6.20***	8.11	***5.42***	***6.20***	***5.90***	***6.00***
Alkalinity	PPM	NS	130	160	24	36	180	88
Chloride	PPM	250	57	54	2.7	6.1	63	23
Total Dissolved Solids	PPM	500	260	380	120	110	430	260
Hardness	PPM	NS	180	240	56	92	260	170
Turbidity	NTU	15	2.2	1.2	0.4	2.4	1.4	5.0
Nitrate Nitrogen	PPM	10	0.11	0.33	1.5	0.96	0.68	0.66
Sulfate	PPM	250	16	96	43	100	56	76
Specific Conductance	umhos/cm	NS	470	730	180	190	540	460
Chemical Oxygen Demand	PPM	NS	15	19	<10	<10	24	<10
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<5
Arsenic	PPB	10	<2	<2	<2	<2	<2	<2
Barium	PPB	2,000	88	86	36	29	119	69
Beryllium	PPB	4	<0.5	<0.5	<0.5	<2	<2	<2
Cadmium	PPB	5	<0.5	0.6	<0.5	<2	<2	<2
Calcium	PPB	NS	56,000	57,000	16,000	23,000	76,000	44,000
Chromium	PPB	100	<2	<2	<2	<2	<2	<2
Cobalt	PPB	NS	<2	<2	<2	<2	<2	<2
Copper	PPB	1,300	<2	<2	<2	<2	11	<2
Iron	PPB	300	100	<50	70	160	120	***350***
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	18,000	22,000	6,700	7,100	15,000	13,000
Manganese	PPB	50	***180***	***1,980***	***92***	***283***	***542***	***930***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	<2	4	<2	<2	5	<2
Potassium	PPB	NS	5,100	6,000	2,500	2,100	5,700	2,800
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<1	<1	<1	<2	<2	<2
Sodium	PPB	NS	18,000	32,000	4,800	6,600	43,000	15,000
Thallium	PPB	2	<1	<1	<1	<1	<1	<1
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	12	10	16	<10	2,090	<20
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-10

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Volatile Organic Compounds Cont.			**09/21/11**	**03/26/12**	**09/20/12**	**04/26/13**	**09/19/13**	**03/27/14**
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-10

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Indicators			09/23/14	03/25/15	09/28/15	03/30/16	10/27/16
pH	units	6.5-8.5	***5.80***	***5.90***	***5.99***	***6.47***	***6.49***
Alkalinity	PPM	NS	230	130	110	57	110
Chloride	PPM	250	69	34	43	21	42
Total Dissolved Solids	PPM	500	470	270	410	200	260
Hardness	PPM	NS	300	210	200	140	180
Turbidity	NTU	15	0.76	2.60	4.10	1.50	<5
Nitrate Nitrogen	PPM	10	0.23	0.69	0.73	0.86	0.89
Sulfate	PPM	250	56	73	97	73	68
Specific Conductance	umhos/cm	NS	640	420	460	370	498
Chemical Oxygen Demand	PPM	NS	<10	<10	19	<10	<10
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**					
Antimony	PPB	6	<5	<5	<5	<5	<5
Arsenic	PPB	10	<2	<2	<2	<2	<2
Barium	PPB	2,000	104	57	101	38	62
Beryllium	PPB	4	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	<2	<2
Calcium	PPB	NS	69,000	56,000	35,000	33,000	38,600
Chromium	PPB	100	<2	<2	<2	<2	<2
Cobalt	PPB	NS	<2	<2	<2	<2	<2
Copper	PPB	1,300	<2	<2	<2	<2	<2
Iron	PPB	300	190	180	***310***	<50	<50
Lead	PPB	15	<2	<2	<2	<2	<2
Magnesium	PPB	NS	20,000	15,000	22,000	14,000	19,500
Manganese	PPB	50	***690***	***187***	***914***	***76***	***59***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	4	<2	4	<2	<2
Potassium	PPB	NS	6,300	3,200	5,000	2,700	6,980
Selenium	PPB	50	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2
Sodium	PPB	NS	45,000	19,000	24,000	12,000	25,800
Thallium	PPB	2	<1	<1	<1	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2
Zinc	PPB	5,000	<20	<20	<20	<20	<20
Volatile Organic Compounds	**Units**	**MCL**					
Acetone	PPB	NS	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-10

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Volatile Organic Compounds Cont.			09/23/14	03/25/15	09/28/15	03/30/16	10/27/16
Chloromethane	PPB	NS	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	2	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND
Total VOCs	PPB	-	2	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-10

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Indicators			03/29/17	09/19/17	03/28/18	09/27/18	03/25/19	09/24/19
pH	units	6.5-8.5	***6.00***	***6.06***	***5.39***	***5.85***	***5.85***	***6.19***
Alkalinity	PPM	NS	21	46	<20	32	170	160
Chloride	PPM	250	5.4	10	5	3	58	38
Total Dissolved Solids	PPM	500	270	180	130	84	360	360
Hardness	PPM	NS	78	85	79	70	190	210
Turbidity	NTU	15	12.4	<5	***48.0***	<5	***23.9***	<5
Nitrate Nitrogen	PPM	10	0.41	0.53	0.25	0.24	0.32	0.33
Sulfate	PPM	250	49	26	61	35	42	93
Specific Conductance	umhos/cm	NS	212	180	192	167	507	479
Chemical Oxygen Demand	PPM	NS	<10	15	<10	12	21	13
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<2
Arsenic	PPB	10	<2	<2	<2	<2	<2	<2
Barium	PPB	2,000	23	32	34	39	75	108
Beryllium	PPB	4	<2	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	<2	<2	<4
Calcium	PPB	NS	17,200	20,900	20,600	18,400	46,200	41,700
Chromium	PPB	100	<2	<2	<2	<2	<2	<10
Cobalt	PPB	NS	<2	<2	<2	<2	<2	<10
Copper	PPB	1,300	<2	<2	<2	<2	<2	<10
Iron	PPB	300	130	189	145	260	236	<5
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	6,300	6,340	7,140	5,810	25,500	27,300
Manganese	PPB	50	***298***	***254***	***231***	40	***203***	***933***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	<2	<2	<2	<2	<2	<10
Potassium	PPB	NS	1,640	2,830	1,620	2,080	3,300	3,470
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2	<10
Sodium	PPB	NS	5,140	7,330	4,890	3,830	54,700	33,000
Thallium	PPB	2	<2	<2	<2	<2	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	<20	<20	<20	<20	<20	18
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-10

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Volatile Organic Compounds Cont.			03/29/17	09/19/17	03/28/18	09/27/18	03/25/19	09/24/19
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R. B. Baker & Sons Rubble Landfill
Groundwater Monitoring Test Results
Monitoring Well W-11

Analyte			SA-50	SA-51	SA-52	SA-53	SA-54	SA-55	SA-56	SA-57	SA-58	SA-59	SA-60	SA-61	SA-62	SA-63	SA-64	SA-65	SA-66	SA-67	SA-68	SA-69	SA-70	SA-71	SA-72
Indicators	**Units**	**MCL**	**4/28/04**	**9/7/04**	**12/6/04**	**2/8/05**	**6/13/05**	**9/21/05**	**11/14/05**	**02/01/06**	**05/16/06**	**07/25/06**	**10/19/06**	**02/21/07**	**04/30/07**	**08/02/07**	**12/20/07**	**03/17/08**	**06/24/08**	**09/30/08**	**03/10/09**	**07/17/09**	**01/29/10**	**07/30/10**	**02/17/11**
pH	units	6.5-8.5	***4.6***	***4.0***	***4.4***	***4.6***	***4.0***	***4.8***	7.0	***5.61***	7.44	***5.50***	***5.93***	***6.00***	***5.51***	***5.44***	***5.60***	***5.90***	***NT***	***5.10***	***6.00***	***6.20***	6.80	***6.00***	***5.22***
Conductance (Specific)	umhos/cm	NS	140	110	120	170	160	160	170	400	680	370	250	310	NT	280	350	350	330	300	360	260	280	240	330
Alkalinity	PPM	NS	<1	<4	12	8	1	8	8	88	180	12	8	9	88	4	3	3	8	5	4	2	16	21	3
Chloride	PPM	250	9.7	8.4	11.9	19.1	15.5	28.9	34.3	31.1	83.1	41.0	46.5	63.2	30.0	54.9	94.0	65.0	66.0	66	73	51	41	28	57
Hardness	PPM	NS	52	48	160	72	45	84	76	270	220	110	100	150	180	86	110	130	62	96	100	24	92	76	180
Turbidity	NTU	15	9.2	***180.0***	***18.0***	12.0	***20.0***	***47.0***	***80.0***	1.0	4.3	0.5	3.6	5.8	0.2	9.8	8.0	3.1	5.9	***25.0***	***60.0***	0.2	4.3	2.6	4.1
Total Organic Halogen	PPM	NS	0.026	0.045	0.018	0.025	<0.02	<0.02	0.019	0.020	0.048	0.017	0.016	0.030	0.038	0.031	0.037	0.036	0.055	0.120	0.041	0.050	0.038	0.029	0.037
Total Suspended Solids	PPM	NS	16	3	<1	3	3	2	8	4	3	4	2	<1	<1	<1	2	1	4	13	6	<1	3	2	9
Total Dissolved Solids	PPM	500	70	110	100	76	91	200	89	240	390	130	110	170	310	160	160	160	160	180	210	210	350	160	160
Chemical Oxygen Demand	PPM	NS	<10	<10	<10	<10	21	<10	<10	<10	<10	<10	<10	<10	20	<10	<10	20	<10	<10	39	11	<10	19	<10
Sulfate	PPM	250	46.7	35.0	37.2	36.4	38.6	23.7	23.6	49.7	33.1	27.4	24.2	29.4	44.5	51.0	45.0	40.0	59.0	46	45	53	48	52	66
Nitrate Nitrogen	PPM	10	0.17	0.088	0.15	0.25	0.12	0.15	0.13	<0.1	<0.1	0.12	0.17	0.11	<0.1	0.13	0.19	<0.02	<0.1	<0.02	0.2	0.25	0.11	0.12	0.04
Nitrate/Nitrite Nitrogen	PPM	NS	0.26	0.10	0.15	0.25	0.12	0.15	0.13	<0.1	<0.1	0.12	0.17	0.11	<0.1	0.13	0.04	<0.02	0.04	NT	0.2	0.25	NT	0.12	0.04
Nitrite Nitrogen	PPM	10	<0.05	<0.05	<0.05	<0.02	<0.05	<0.1	<0.1	<0.1	<0.1	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	0.4	<0.2	0.2	0.4	<0.2	<0.2	<0.2
Metals																									
Arsenic	PPB	10	<2	<2	<2	<2	<2	<2	<2	3.8	<2	<2	<2	5	3	<2	3	<2	<2	<2	<2	<2	<2	3	<2
Barium	PPB	2,000	50.7	69.0	53.3	57.8	45.0	57.9	62.6	61.0	72.0	73.0	92	100	66	72	110	110	89	111	110	77	68	36	61
Cadmium	PPB	5	<0.5	1.10	1.10	1.20	<0.5	1.00	1.00	<0.5	<0.5	1.6	<0.5	4.6	<0.5	<0.5	2.3	0.8	0.8	<0.5	1.6	0.6	0.9	1.2	<0.5
Calcium	PPB	NS	6,800	5,600	5,500	6,470	6,700	7,620	7,130	61,000	33,000	9,000	10,000	12,000	72,000	8,400	10,000	13,000	13,000	11,000	15,000	9,800	10,000	5,400	8,800
Chromium	PPB	100	<2	<2	2.3	<2	<2	12.2	2.2	<2	<2	3.5	2.1	<2	<2	<2	66	5	5	<2	3	<2	<2	<2	<2
Copper	PPB	1,000	2.5	3.9	3.1	4.4	3.8	<2	<2	<2	<2	<2	<2	16	<2	3	5	<2	2	<2	<2	<2	<2	<2	<2
Iron	PPB	300	***400***	***670***	299	***490***	***540***	105	<100	<100	***1,100***	***1,200***	***420***	190	<100	<100	***2,580***	***880***	***2,200***	***480***	***1,800***	***570***	***820***	***4,900***	***510***
Lead	PPB	15	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	8.8	5.9	<2	<2	3.4	<2	<2	<2	<2	<2	<2	<2	<2
Magnesium	PPB	150,000	6,900	5,900	5,790	6,910	6,700	7,290	7,500	2,800	5,600	9,400	9,600	1,200	4,100	8,700	12,000	18,000	13,000	13,000	14,000	9,400	10,000	490	9,800
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.52	0.50	<0.5	1	<0.5	<0.5	<0.5	<0.5
Potassium	PPB	NS	725	1,000	1,350	1,060	580	1,070	1,180	1,600	1,500	1,200	<300	2,800	1,500	1,400	2,100	2,500	2,000	2,600	3,200	1,900	1,800	1,800	2,200
Selenium	PPB	50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Sodium	PPB	NS	4,900	5,100	6,150	6,540	3,800	4,950	5,830	4,800	21,000	8,300	20,000	36,000	9,900	17,000	17,000	22,000	24,000	18,000	21,000	25,000	21,000	21,000	28,000
Zinc	PPB	5,000	<10	18	14.7	39.6	17.0	<10	19.4	18.0	<10	18.0	14.0	***5,400***	45	31	1,200	17	13	15	30	<10	<10	10	21
Volatile Organic Compounds																									
Total VOCs	PPB		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0

Bold/Shaded results exceed the EPA Maximum Containment Level (MCL) for Drinking Water.
NS - No Standard
ND - None Detected
NT - Not Tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-11

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Indicators			09/21/11	03/26/12	09/20/12	04/26/13	09/19/13	03/27/14
pH	units	6.5-8.5	***6.20***	***4.85***	***4.43***	***4.80***	***4.40***	***4.60***
Alkalinity	PPM	NS	36	16	16	5	<20	<20
Chloride	PPM	250	6.1	70	65	68	73	83
Total Dissolved Solids	PPM	500	110	190	200	180	210	230
Hardness	PPM	NS	92	56	64	60	62	78
Turbidity	NTU	15	2.4	<0.05	<0.05	0.05	0.50	0.50
Nitrate Nitrogen	PPM	10	0.96	0.12	0.15	0.22	0.41	0.24
Sulfate	PPM	250	100	35	48	43	37	46
Specific Conductance	umhos/cm	NS	190	350	380	320	330	380
Chemical Oxygen Demand	PPM	NS	<10	13	15	11	26	<10
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<5
Arsenic	PPB	10	<2	<2	<2	<2	<2	<2
Barium	PPB	2,000	29	49	69	68	73	64
Beryllium	PPB	4	<2	<0.5	<0.5	<2	<2	<2
Cadmium	PPB	5	<2	<0.5	<0.5	<2	<2	<2
Calcium	PPB	NS	23,000	9,100	9,400	9,800	8,400	11,000
Chromium	PPB	100	<2	<2	<2	<2	<2	<2
Cobalt	PPB	NS	<2	5	6	6	5	5
Copper	PPB	1,300	<2	<2	<2	<2	50	<2
Iron	PPB	300	160	100	50	<50	100	<50
Lead	PPB	15	<2	<2	<2	<2	2	<2
Magnesium	PPB	NS	7,100	9,300	11,000	9,600	9,500	11,000
Manganese	PPB	50	***283***	***76***	***96***	***111***	***93***	***78***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	<2	3	3	3	9	<2
Potassium	PPB	NS	2,100	1,900	2,400	1,800	2,000	1,100
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<1	<1	<2	<2	<2
Sodium	PPB	NS	6,600	30,000	33,000	34,000	38,000	33,000
Thallium	PPB	2	<1	<1	<1	<1	<1	<1
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	<10	12	38	19	50	<20
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-11

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Volatile Organic Compounds Cont.			**09/21/11**	**03/26/12**	**09/20/12**	**04/26/13**	**09/19/13**	**03/27/14**
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-11

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Indicators			09/23/14	03/25/15	09/28/15	03/30/16	10/27/16
pH	units	6.5-8.5	***4.10***	***4.10***	***4.57***	***4.40***	***4.97***
Alkalinity	PPM	NS	<20	<20	<20	<20	<20
Chloride	PPM	250	64	72	72	74	70
Total Dissolved Solids	PPM	500	250	190	280	160	250
Hardness	PPM	NS	64	74	56	70	69
Turbidity	NTU	15	<0.05	0.06	0.16	0.27	<5
Nitrate Nitrogen	PPM	10	0.16	0.35	0.33	0.29	0.18
Sulfate	PPM	250	45	54	61	64	69
Specific Conductance	umhos/cm	NS	340	370	360	410	400
Chemical Oxygen Demand	PPM	NS	<10	<10	29	<10	17
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**					
Antimony	PPB	6	<5	<5	<5	<5	<5
Arsenic	PPB	10	<2	<2	<2	<2	<2
Barium	PPB	2,000	60	57	56	70	64
Beryllium	PPB	4	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	<2	<2
Calcium	PPB	NS	7,400	11,000	8,300	12,000	9,300
Chromium	PPB	100	<2	<2	<2	<2	<2
Cobalt	PPB	NS	5	4	6	5	6
Copper	PPB	1,300	<2	<2	<2	<2	<2
Iron	PPB	300	<50	<50	60	<50	100
Lead	PPB	15	<2	<2	<2	<2	<2
Magnesium	PPB	NS	8,200	10,000	8,900	11,000	10,100
Manganese	PPB	50	***68***	***66***	***93***	***70***	***90***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	2	3	3	3	3
Potassium	PPB	NS	2,000	1,200	1,900	2,000	2,570
Selenium	PPB	50	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2
Sodium	PPB	NS	34,000	32,000	35,000	42,000	39,100
Thallium	PPB	2	<1	<1	<1	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2
Zinc	PPB	5,000	<20	<20	<20	<20	<20
Volatile Organic Compounds	**Units**	**MCL**					
Acetone	PPB	NS	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-11

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Volatile Organic Compounds Cont.			09/23/14	03/25/15	09/28/15	03/30/16	10/27/16
Chloromethane	PPB	NS	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-11

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Indicators			03/29/17	09/19/17	03/28/18	09/27/18	03/25/19	09/24/19
pH	units	6.5-8.5	***4.12***	***4.41***	***4.04***	***4.36***	***3.67***	***4.79***
Alkalinity	PPM	NS	<20	<20	<20	<20	<20	<20
Chloride	PPM	250	85	91	110	90	83	100
Total Dissolved Solids	PPM	500	400	230	280	280	280	260
Hardness	PPM	NS	78	78	99	89	98	120
Turbidity	NTU	15	<5	<5	***28***	***61***	***105.0***	***69.0***
Nitrate Nitrogen	PPM	10	0.26	0.16	0.13	0.56	0.11	0.08
Sulfate	PPM	250	61	40	52	45	74	82
Specific Conductance	umhos/cm	NS	481	370	512	460	402	452
Chemical Oxygen Demand	PPM	NS	<10	26	14	35	19	20
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<2
Arsenic	PPB	10	<2	<2	<2	<2	<2	3
Barium	PPB	2,000	28	73	86	75	97	88
Beryllium	PPB	4	<2	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	3	<2	<4
Calcium	PPB	NS	9,940	10,500	16,300	14,500	14,900	12,500
Chromium	PPB	100	<2	<2	2	2	6	11
Cobalt	PPB	NS	6	9	8	10	8	12
Copper	PPB	1,300	<2	<2	<2	<2	3	<10
Iron	PPB	300	<50	***887***	***2,270***	***1,300***	***6,060***	***9,370***
Lead	PPB	15	<2	<2	<2	<2	3	<2
Magnesium	PPB	NS	10,600	11,100	14,700	13,400	15,500	13,100
Manganese	PPB	50	***102***	***134***	***135***	***170***	***136***	***207***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	3	4	4	6	6	<10
Potassium	PPB	NS	2,160	2,610	3,030	2,230	2,130	2,300
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2	<10
Sodium	PPB	NS	42,800	41,700	47,700	44,000	54,700	51,900
Thallium	PPB	2	<2	<2	<2	<2	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	5	7
Zinc	PPB	5,000	<20	<20	25	28	31	36
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-11

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Volatile Organic Compounds Cont.			03/29/17	09/19/17	03/28/18	09/27/18	03/25/19	09/24/19
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R. B. Baker & Sons Rubble Landfill
Groundwater Monitoring Test Results
Monitoring Well W-12

Analyte			SA-50	SA-51	SA-52	SA-53	SA-54	SA-55	SA-56	SA-57	SA-58	SA-59	SA-60	SA-61	SA-62	SA-63	SA-64	SA-65	SA-66	SA-67	SA-68	SA-69	SA-70	SA-71	SA-72
Indicators	**Units**	**MCL**	4/28/04	9/7/04	12/6/04	2/8/05	6/13/05	9/21/05	11/14/05	02/01/06	05/16/06	07/20/06	10/19/06	02/21/07	02/22/07	08/02/07	12/20/07	03/17/08	06/24/08	09/30/08	03/10/09	07/17/09	01/29/10	07/30/10	02/17/11
pH	units	6.5-8.5	8.4	***6.4***	7.3	7.8	7.7	***6.2***	***5.2***	7.70	***6.33***	***5.40***	***5.31***	***6.1***	***5.46***	***5.78***	7.47	***6.4***	***NT***	***6.10***	***5.00***	7.00	***6.20***	***5.40***	7.15
Conductance (Specific)	umhos/cm	NS	310	370	340	390	390	360	330	210	410	370	390	410	-	420	430	420	410	360	390	330	430	410	390
Alkalinity	PPM	NS	76	94	100	76	82	72	84	<4	72	80	84	93	140	92	92	100	104	92	110	110	100	10	110
Chloride	PPM	250	36.9	35.2	33.8	28.6	33.2	30.2	29.2	36.4	33.6	37.0	32.3	30.9	37.1	38.2	48	30	46	33	34	32	34	35	33
Hardness	PPM	NS	160	160	270	170	150	170	160	90	180	170	140	200	190	180	170	170	170	160	220	4	180	140	120
Turbidity	NTU	15	1.5	2.8	2.4	2.1	1.9	0.2	1.2	7.1	0.9	0.5	0.5	0.3	6	0.7	1.9	0.2	0.05	0.2	0.4	0.2	0.05	<0.05	7.20
Total Organic Halogen	PPM	NS	0.029	0.043	0.024	0.020	<0.02	<0.02	0.033	0.017	0.017	0.008	0.012	0.016	0.048	<0.005	0.023	0.017	0.016	0.038	ND	0.020	ND	ND	ND
Total Suspended Solids	PPM	NS	2	2	<1	1	<1	<1	1	2	1	4	2	<1	5	<1	<1	<1	<1	2	1	<1	<1	<1	9
Total Dissolved Solids	PPM	500	240	320	310	280	310	340	310	91	290	360	280	260	260	300	300	300	300	290	320	340	290	320	300
Chemical Oxygen Demand	PPM	NS	<10	<10	<10	12	14	30	<10	<10	<10	<10	<10	<10	73	<10	<10	<10	39	<10	16	20	<10	21	<10
Sulfate	PPM	250	53.4	43.2	51.5	49.6	53.3	47.5	46.8	26.1	48.7	50.2	46.9	45	25.5	55	44	41	54	54	58	40	43	41	*
Nitrate Nitrogen	PPM	10	<0.05	<0.05	<0.05	<0.02	<0.05	<0.1	<0.1	0.18	<0.1	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.1	<0.02	<0.02	0.02	<0.02	<0.02	0.02
Nitrate/Nitrite Nitrogen	PPM	NS	<0.02	<0.02	<0.05	<0.02	<0.05	<0.1	<0.1	0.18	<0.1	<0.02	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.02	NT	<0.02	0.02	NT	<0.02	0.02
Nitrite Nitrogen	PPM	10	<0.05	<0.05	<0.05	<0.02	<0.05	<0.1	<0.1	<0.1	<0.1	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.02	<0.2	0.4	0.7	<0.2	<0.2
Metals																									
Arsenic	PPB	10	5	5	4	4	4	4	4	<2	<2	5	5	2	<2	4	6	3	4	5	3	4	4	4	3
Barium	PPB	2,000	74	70	68	70	67	71	61	73	31	72	64	69	45	64	88	87	64	60	67	62	61	63	60
Cadmium	PPB	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	<0.5	<0.5	<0.5	3	<0.5	<0.5	<0.5	<.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium	PPB	NS	55,300	61,000	58,800	58,200	54,000	62,800	60,800	8,800	29,000	67,000	62,000	67,000	34,000	63,000	64,000	62,000	75,000	59,000	65,000	69,000	66,000	67,000	62,000
Chromium	PPB	100	<2	<2	3	<2	<2	9	3	7	<2	<2	4	3	<2	<2	25	3	<2	<2	<2	<2	<2	<2	2
Copper	PPB	1,000	<2	4	<2	3	5	3	<2	2	<2	3	<2	20	4	5	2	<2	<2	<2	<2	<2	<2	<2	<2
Iron	PPB	300	***442***	***640***	216	***808***	***470***	<100	158	***2,500***	<100	<100	<100	150	190	<100	***2,000***	<10	<50	50	220	70	50	60	***620***
Lead	PPB	15	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	11	6	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Magnesium	PPB	150,000	2,900	4,000	2,850	2,980	2,700	3,190	2,640	8,600	1,400	3,400	2,900	3,100	18,000	3,000	3,400	3,200	3,800	3,200	3,400	3,400	3,300	3,300	3,400
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.99	<0.5	<0.5	<0.5	<0.5	<0.5
Potassium	PPB	NS	1,700	2,000	1,590	1,500	1,600	1,750	1,680	1,300	730	1,800	640	2,800	480	1,900	2,400	2,100	2,100	1,800	2,000	2,000	1,900	1,900	2,000
Selenium	PPB	50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Sodium	PPB	NS	8,400	1,100	5,130	5,340	5,300	5,640	4,410	7,200	2,300	6,100	3,400	24,000	35,000	6,100	13,000	8,200	9,700	5,600	6,600	7,900	6,000	5,700	4,800
Zinc	PPB	5,000	<10	13	<10	17	20	<10	14	54	<10	12	<10	***5,500***	51	25	<10	11	<10	<10	<10	<10	<10	<10	12
VOCs																									
MTBE	PPB	70	ND	ND	ND	ND	ND	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs	PPB		0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0

Bold/Shaded results exceed the EPA Maximum Containment Level (MCL) for Drinking Water.
NS - No Standard
ND - None Detected
NT - Not Tested
* - Sulfate results were in the 3000 mg/L range. It is suspected that this is a result of laboratory contamination.

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-12

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Indicators			09/21/11	03/26/12	09/20/12	04/26/13	09/19/13	03/27/14
pH	units	6.5-8.5	6.90	***9.49***	6.96	7.40	6.80	7.00
Alkalinity	PPM	NS	130	130	110	120	110	120
Chloride	PPM	250	37	36	33	34	35	38
Total Dissolved Solids	PPM	500	290	280	300	260	290	300
Hardness	PPM	NS	180	160	180	180	180	180
Turbidity	NTU	15	6.4	0.05	0.35	0.3	0.4	0.3
Nitrate Nitrogen	PPM	10	<0.02	0.02	0.02	0.08	0.29	0.11
Sulfate	PPM	250	15	35	31	37	24	22
Specific Conductance	umhos/cm	NS	390	450	420	350	350	430
Chemical Oxygen Demand	PPM	NS	17	<10	11	<10	<10	<10
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2	0.2
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<5
Arsenic	PPB	10	8	2	6	3	5	3
Barium	PPB	2,000	72	45	62	56	62	55
Beryllium	PPB	4	<0.5	<0.5	<0.5	<2	<2	<2
Cadmium	PPB	5	<0.5	<0.5	<0.5	<2	<2	<2
Calcium	PPB	NS	70,000	62,000	67,000	62,000	65,000	59,000
Chromium	PPB	100	<2	<2	<2	<2	<2	<2
Cobalt	PPB	NS	<2	<2	<2	<2	<2	<2
Copper	PPB	1,300	<2	<2	<2	<2	<2	<2
Iron	PPB	300	***1,200***	<50	160	<50	100	<50
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	3,400	3,400	3,300	3,100	3,200	2,300
Manganese	PPB	50	***240***	12	***82***	9	***71***	6
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	<2	10	<2	<2	<2	<2
Potassium	PPB	NS	2,300	2,000	2,000	1,800	1,800	1,600
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<1	<1	<1	<2	<2	<2
Sodium	PPB	NS	13,000	9,500	7,000	8,400	7,400	7,300
Thallium	PPB	2	<1	<1	<1	<1	<1	<1
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	11	<10	16	<10	<20	<20
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-12

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Volatile Organic Compounds Cont.			**09/21/11**	**03/26/12**	**09/20/12**	**04/26/13**	**09/19/13**	**03/27/14**
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-12

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Indicators			**09/23/14**	**03/25/15**	**09/28/15**	**03/30/16**	**10/27/16**
pH	units	6.5-8.5	6.60	***6.30***	***6.23***	6.98	7.55
Alkalinity	PPM	NS	120	120	120	120	120
Chloride	PPM	250	36	37	38	38	39
Total Dissolved Solids	PPM	500	330	260	260	300	320
Hardness	PPM	NS	190	190	190	190	180
Turbidity	NTU	15	0.31	0.15	0.95	0.13	<5
Nitrate Nitrogen	PPM	10	0.11	0.18	0.23	0.25	0.11
Sulfate	PPM	250	22	34	30	27	23
Specific Conductance	umhos/cm	NS	350	360	400	440	418
Chemical Oxygen Demand	PPM	NS	<10	<10	12	<10	13
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**					
Antimony	PPB	6	<5	<5	<5	<5	<5
Arsenic	PPB	10	6	3	6	3	6
Barium	PPB	2,000	64	55	60	61	65
Beryllium	PPB	4	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	<2	<2
Calcium	PPB	NS	61,000	67,000	65,000	73,000	68
Chromium	PPB	100	<2	<2	<2	<2	<2
Cobalt	PPB	NS	<2	<2	<2	<2	<2
Copper	PPB	1,300	<2	<2	<2	<2	<2
Iron	PPB	300	290	<50	***400***	<50	***420***
Lead	PPB	15	<2	<2	<2	<2	<2
Magnesium	PPB	NS	3,200	3,200	3,200	3,600	3,660
Manganese	PPB	50	***110***	9	***84***	4	***79***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	<2	<2	<2	<2	<2
Potassium	PPB	NS	1,900	1,800	1,800	2,000	3,530
Selenium	PPB	50	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2
Sodium	PPB	NS	8,100	7,500	7,500	8,800	7,420
Thallium	PPB	2	<1	<1	<1	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2
Zinc	PPB	5,000	<20	<20	<20	<20	<20
Volatile Organic Compounds	**Units**	**MCL**					
Acetone	PPB	NS	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-12

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Volatile Organic Compounds Cont.			09/23/14	03/25/15	09/28/15	03/30/16	10/27/16
Chloromethane	PPB	NS	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-12

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Indicators			03/29/17	09/19/17	03/29/18	09/27/18	03/25/19	09/24/19
pH	units	6.5-8.5	NT	7.03	8.45	NT	7.03	NT
Alkalinity	PPM	NS	NT	130	130	NT	140	NT
Chloride	PPM	250	NT	39	37	NT	39	NT
Total Dissolved Solids	PPM	500	NT	370	260	NT	240	NT
Hardness	PPM	NS	NT	170	190	NT	200	NT
Turbidity	NTU	15	NT	<5	<5	NT	***22.0***	NT
Nitrate Nitrogen	PPM	10	NT	0.07	<0.05	NT	0.11	NT
Sulfate	PPM	250	NT	14	15	NT	19	NT
Specific Conductance	umhos/cm	NS	NT	349	405	NT	364	NT
Chemical Oxygen Demand	PPM	NS	NT	<10	<10	NT	<10	NT
Ammonia Nitrogen	PPM	NS	NT	<0.2	<0.2	NT	<0.2	NT
Metals	**Units**	**MCL**						
Antimony	PPB	6	NT	<5	<5	NT	<5	NT
Arsenic	PPB	10	NT	6	3	NT	3	NT
Barium	PPB	2,000	NT	72	63	NT	63	NT
Beryllium	PPB	4	NT	<2	<2	NT	<2	NT
Cadmium	PPB	5	NT	<2	<2	NT	<2	NT
Calcium	PPB	NS	NT	65,700	68,100	NT	80,900	NT
Chromium	PPB	100	NT	<2	<2	NT	<2	NT
Cobalt	PPB	NS	NT	<2	<2	NT	<2	NT
Copper	PPB	1,300	NT	<2	<2	NT	<2	NT
Iron	PPB	300	NT	***377***	63	NT	<50	NT
Lead	PPB	15	NT	<2	<2	NT	<2	NT
Magnesium	PPB	NS	NT	3,410	3,450	NT	3,750	NT
Manganese	PPB	50	NT	***105***	18	NT	12	NT
Mercury	PPB	2	NT	<0.5	<0.5	NT	<0.5	NT
Nickel	PPB	NS	NT	<2	<2	NT	<2	NT
Potassium	PPB	NS	NT	1,890	1,850	NT	1,770	NT
Selenium	PPB	50	NT	<5	<5	NT	<5	NT
Silver	PPB	100	NT	<2	<2	NT	<2	NT
Sodium	PPB	NS	NT	7,110	8,640	NT	9,990	NT
Thallium	PPB	2	NT	<2	<2	NT	<2	NT
Vanadium	PPB	NS	NT	<2	<2	NT	<2	NT
Zinc	PPB	5,000	NT	NT	<20	NT	<20	NT
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	NT	ND	ND	NT	ND	NT
Acrylonitrile	PPB	NS	NT	ND	ND	NT	ND	NT
Benzene	PPB	5	NT	ND	ND	NT	ND	NT
Bromochloromethane	PPB	NS	NT	ND	ND	NT	ND	NT
Bromodichloromethane	PPB	100	NT	ND	ND	NT	ND	NT
Bromoform	PPB	100	NT	ND	ND	NT	ND	NT
Bromomethane	PPB	NS	NT	ND	ND	NT	ND	NT
2-Butanone	PPB	NS	NT	ND	ND	NT	ND	NT
Carbon disulfide	PPB	NS	NT	ND	ND	NT	ND	NT
Carbon tetrachloride	PPB	5	NT	ND	ND	NT	ND	NT
Chlorobenzene	PPB	100	NT	ND	ND	NT	ND	NT
Chloroethane	PPB	NS	NT	ND	ND	NT	ND	NT
Choroform	PPB	NS	NT	ND	ND	NT	ND	NT

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-12

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Volatile Organic Compounds Cont.			03/29/17	09/19/17	03/29/18	09/27/18	09/27/18	09/24/19
Chloromethane	PPB	NS	NT	ND	ND	NT	ND	NT
Dibromochloromethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,2-Dibromo-3-chloropropane	PPB	0.2	NT	ND	ND	NT	ND	NT
1,2-Dibromoethane	PPB	NS	NT	ND	ND	NT	ND	NT
Dibromomethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,2-Dichlorobenzene	PPB	600	NT	ND	ND	NT	ND	NT
1,4-Dichlorobenzene	PPB	75	NT	ND	ND	NT	ND	NT
trans-1,4-Dichloro-2-butene	PPB	NS	NT	ND	ND	NT	ND	NT
1,1-Dichloroethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,2-Dichloroethane	PPB	5	NT	ND	ND	NT	ND	NT
1,1-Dichloroethene	PPB	7	NT	ND	ND	NT	ND	NT
cis-1,2,-Dichloroethene	PPB	70	NT	ND	ND	NT	ND	NT
trans-1,2-Dichloroethene	PPB	100	NT	ND	ND	NT	ND	NT
Methylene chloride/Dichloromethane	PPB	5	NT	ND	ND	NT	ND	NT
1,2-Dichloropropane	PPB	5	NT	ND	ND	NT	ND	NT
trans-1,3-Dichloropropene	PPB	NS	NT	ND	ND	NT	ND	NT
cis-1,3-Dichloropropene	PPB	NS	NT	ND	ND	NT	ND	NT
Ethylbenzene	PPB	700	NT	ND	ND	NT	ND	NT
2-Hexanone	PPB	NS	NT	ND	ND	NT	ND	NT
Iodomethane	PPB	NS	NT	ND	ND	NT	ND	NT
4-Methyl-2-pentanone	PPB	NS	NT	ND	ND	NT	ND	NT
Methyl-t-butyl ether	PPB	70	NT	ND	ND	NT	ND	NT
Styrene	PPB	100	NT	ND	ND	NT	ND	NT
1,1,1,2-Tetrachloroethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,1,2,2-Tetrachloroethane	PPB	NS	NT	ND	ND	NT	ND	NT
Tetrachloroethene	PPB	NS	NT	ND	ND	NT	ND	NT
Toluene	PPB	1,000	NT	ND	ND	NT	ND	NT
1,1,1-Trichloroethane	PPB	200	NT	ND	ND	NT	ND	NT
1,1,2-Trichloroethane	PPB	5	NT	ND	ND	NT	ND	NT
Trichloroethene	PPB	5	NT	ND	ND	NT	ND	NT
Trichlorofluoromethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,2,3-Trichloropropane	PPB	NS	NT	ND	ND	NT	ND	NT
Vinyl acetate	PPB	NS	NT	ND	ND	NT	ND	NT
Vinyl chloride	PPB	2	NT	ND	ND	NT	ND	NT
Xylene (Total)	PPB	10,000	NT	ND	ND	NT	ND	NT
Total VOCs	PPB	-	NT	ND	ND	NT	ND	NT

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R. B. Baker & Sons Rubble Landfill
Groundwater Monitoring Test Results
Monitoring Well W-13

Analyte			SA-49	SA-50	SA-51	SA-52	SA-53	SA-54	SA-55	SA-56	SA-57	SA-58	SA-59	SA-60	SA-61	SA-62	SA-63	SA-64	SA-65	SA-66	SA-67	SA-68	SA-69	SA-70	SA-71	SA-72
Indicators	**Units**	**MCL**	2/23/04	4/28/04	9/7/04	12/6/04	2/8/05	6/13/05	9/21/05	11/14/05	02/01/06	05/15/06	07/20/06	10/19/06	02/21/07	04/30/07	08/02/07	12/20/07	03/17/08	06/27/08	09/30/08	03/10/09	07/17/09	01/29/10	07/30/10	02/17/11
pH	units	6.5-8.5	6.5	6.6	6.7	6.6	***5.8***	6.7	***5.2***	***5.0***	***5.47***	***6.49***	***NT***	***5.56***	***5.10***	***5.43***	***5.66***	6.80	***4.90***	***NT***	***5.00***	***6.10***	6.90	6.80	***6.30***	6.68
Conductance (Specific)	umhos/cm	NS	700	610	560	520	580	690	640	660	600	730	NT	500	1,000	-	1,000	780	950	930	740	970	700	960	880	660
Alkalinity	PPM	NS	160	140	150	140	150	150	150	170	160	180	NT	88	250	240	240	200	240	260	240	20	280	290	240	200
Chloride	PPM	250	115.0	98.9	82.4	91.4	59.2	80.7	82.2	100.0	64.3	99.5	***NT***	75.1	139.0	152.0	161.0	111.0	130.0	150.0	98	120	93	100	120	60
Hardness	PPM	NS	240	230	200	260	220	230	240	250	250	330	NT	160	320	260	290	210	250	230	220	230	340	310	240	330
Turbidity	NTU	15	***18.0***	2.5	13.0	***40.0***	8.6	7.1	0.67	***22.00***	0.75	14.00	***NT***	0.45	***31.00***	***270.00***	***34.00***	5.50	***180.00***	***210.00***	***37.0***	***100.0***	15.0	8.8	***50.0***	***36.0***
Total Organic Halogen	PPM	NS	0.018	0.018	0.061	0.051	0.038	0.025	<0.05	0.061	0.031	0.033	NT	0.040	0.100	0.036	0.035	0.064	0.062	0.109	0.067	ND	0.110	0.072	0.051	0.055
Total Suspended Solids	PPM	NS	19	4	2	12	1	1	2	5	3	5	NT	3	<1	7	2	2	7	8	12	7	3	<1	1	5
Total Dissolved Solids	PPM	500	450	410	360	360	330	450	430	***500***	350	410	***NT***	280	***540***	***550***	***520***	380	480	440	410	***530***	500	470	430	380
Chemical Oxygen Demand	PPM	NS	<10	<10	<10	12	16	43	14	<10	<10	11	NT	<10	<10	41	18	13	25	16	16	16	25	<10	<10	42
Sulfate	PPM	250	42.6	39.7	44.2	56.4	46.8	47.0	45.6	29.4	34.7	32.8	***NT***	30.5	19.6	17.1	24.8	16.4	14.0	18.0	19	21	13	13	12	*
Nitrate Nitrogen	PPM	10	0.16	0.16	0.055	0.09	0.33	0.24	0.31	<0.1	0.32	<0.1	NT	0.45	<0.1	<0.1	0.40	0.22	<0.02	0.23	0.03	<0.02	0.14	<0.02	0.24	<0.02
Nitrite Nitrogen	PPM	10	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.1	<0.1	<0.1	<0.1	NT	0.45	<0.1	<0.1	0.40	<0.1	<0.02	<0.1	<0.02	<0.02	0.14	<0.02	0.02	<0.02
Nitrate/Nitrite Nitrogen	PPM	NS	0.07	0.10	<0.02	0.09	0.33	0.24	0.31	<0.1	0.32	<0.1	NT	<0.1	<0.1	<0.1	<0.1	0.08	<0.02	0.06	NT	<0.02	<0.02	NT	0.26	<0.02
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	0.5	0.6	<0.2	<0.002	NT	<0.2	<0.2	1.0	<0.2	1.0	1.5	2.0	1.1	1.7	1.9	1.4	1.4	1.5
Metals																										
Arsenic	PPB	10	2	2	4	4	2	<2	2	7	<2	<2	NT	<2	3	***17***	***110***	***30***	***46***	***40***	7	***16***	***25***	3	***13***	2
Barium	PPB	2,000	223	213	140	132	171	160	139	164	150	88	***NT***	260	170	200	110	100	210	190	110	130	150	110	130	93
Cadmium	PPB	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NT	<0.5	3	<0.5	110	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium	PPB	NS	77,700	79,200	69,000	63,500	62,900	71,000	81,000	80,900	65,000	36,000	NT	41,000	79,000	77,000	2,100	48,000	68,000	76,000	57,000	66,000	59,000	75,000	70,000	57,000
Chromium	PPB	100	<2	<2	<2	3	<2	<2	18	3	<2	<2	NT	3	4	<2	94	17	<2	<2	<2	<2	<2	<2	<2	<2
Copper	PPB	1,000	3	<2	3	2	3	10	3	<2	2	2	NT	<2	16	2	110	<2.0	<2	<2	<2	<2	<2	<2	<2	<2
Iron	PPB	300	***690***	***589***	***1,000***	***1,220***	***1,290***	***680***	118	***3,230***	***521***	***2,100***	***NT***	***300***	***2,600***	***20,000***	***2,100***	***24,000***	***45,000***	***54,000***	***9,000***	***27,000***	***36,000***	***3,700***	***12,000***	***3,400***
Lead	PPB	15	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	NT	9	7	<2	***98***	<2.0	<2	<2	<2	<2	<2	<2	<2	<2
Magnesium	PPB	150,000	7,500	6,900	6,400	5,440	7,620	7,500	8,760	10,800	9,600	6,600	***NT***	5,700	1,600	20,000	1,200	12,000	16,000	18,000	15,000	18,000	16,000	17,000	16,000	18,000
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NT	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.73	<0.5	<0.5	<0.5	<0.5	<0.5
Potassium	PPB	NS	3,000	2,540	2,400	2,170	2,270	2,500	2,830	2,970	2,900	1,700	NT	2,100	4,800	2,900	5,100	3,900	5,700	6,200	6,600	7,100	7,400	7,600	6,900	7,200
Selenium	PPB	50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NT	<5	<5	<5	***130***	<5	<5	<5	<5	<5	<5	<5	<5	<5
Sodium	PPB	NS	46,000	45,800	45,000	34,000	32,500	33,000	36,400	43,600	41,000	25,000	NT	9,200	120,000	108,000	53,000	74,000	100,000	84,000	70,000	92,000	86,000	81,000	73,000	45,000
Zinc	PPB	5,000	<25	<10	14	11	20	19	<10	30	33	12	NT	<10	***5,400***	54	280	<10	22	16	20	10	10	<10	<10	11
VOCs																										
MTBE	PPB		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7
Dichloromethane	PPB		ND	ND	ND	ND	ND	ND	0.7	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs	PPB		0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0.7

Bold/Shaded results exceed the EPA Maximum Containment Level (MCL) for Drinking Water.
NS - No Standard
ND - None Detected
NT - Not Tested
* - Sulfate results were in the 3000 mg/L range. It is suspected that this is a result of laboratory contamination.

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-13

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Indicators			09/21/11	03/26/12	09/20/12	04/26/13	09/19/13	03/27/14
pH	units	6.5-8.5	6.80	***8.61***	6.79	7.00	6.70	6.70
Alkalinity	PPM	NS	260	220	220	300	280	300
Chloride	PPM	250	120	81	76	97	98	92
Total Dissolved Solids	PPM	500	450	370	370	430	450	450
Hardness	PPM	NS	230	180	230	240	230	230
Turbidity	NTU	15	***240.0***	***66.0***	***35.0***	***65.0***	***240***	***110***
Nitrate Nitrogen	PPM	10	<0.02	<0.02	0.02	0.07	0.32	0.14
Sulfate	PPM	250	<10	15	<10	15	<10	<10
Specific Conductance	umhos/cm	NS	810	800	750	710	710	890
Chemical Oxygen Demand	PPM	NS	35	21	28	15	26	<10
Ammonia Nitrogen	PPM	NS	2.5	1.7	2.1	2.5	2.6	2.7
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<5
Arsenic	PPB	10	***27***	9	***21***	10	***23***	***15***
Barium	PPB	2,000	98	74	85	87	88	89
Beryllium	PPB	4	<0.5	<0.5	<0.5	<2	<2	<2
Cadmium	PPB	5	<0.5	<0.5	<0.5	<2	<2	<2
Calcium	PPB	NS	71,000	52,000	62,000	59,000	58,000	52,000
Chromium	PPB	100	<2	<2	<2	<2	<2	<2
Cobalt	PPB	NS	4	<2	<2	<2	<2	<2
Copper	PPB	1,300	<2	<2	<2	<2	<2	<2
Iron	PPB	300	***36,000***	***16,000***	***29,000***	***20,000***	***29,000***	***25,000***
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	20,000	14,000	17,000	19,000	17,000	19,000
Manganese	PPB	50	***1,000***	***1,680***	***2,200***	***1,940***	***1,860***	***2,200***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	<2	<2	<2	<2	<2	<2
Potassium	PPB	NS	7,100	7,000	6,600	7,000	6,600	6,600
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<1	<1	<1	<2	<2	<2
Sodium	PPB	NS	71,000	63,000	55,000	77,000	81,000	84,000
Thallium	PPB	2	<1	<1	<1	<1	<1	<1
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	17	12	15	<10	<20	<20
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-13

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Volatile Organic Compounds Cont.			**09/21/11**	**03/26/12**	**09/20/12**	**04/26/13**	**09/19/13**	**03/27/14**
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-13

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Indicators			09/23/14	03/25/15	09/28/15	03/30/16	10/27/16
pH	units	6.5-8.5	6.50	6.50	***6.13***	6.73	7.59
Alkalinity	PPM	NS	260	200	190	230	240
Chloride	PPM	250	66	46	38	67	63
Total Dissolved Solids	PPM	500	430	280	230	350	410
Hardness	PPM	NS	210	150	130	230	210
Turbidity	NTU	15	***74***	***31***	***140***	***160***	<5
Nitrate Nitrogen	PPM	10	0.10	0.23	0.20	0.25	0.08
Sulfate	PPM	250	<10	<10	16	<10	<10
Specific Conductance	umhos/cm	NS	610	460	470	700	729
Chemical Oxygen Demand	PPM	NS	<10	<10	19	17	31
Ammonia Nitrogen	PPM	NS	2.3	2.0	2.7	2.3	2.2
Metals	**Units**	**MCL**					
Antimony	PPB	6	<5	<5	<5	<5	<5
Arsenic	PPB	10	***19***	2	***19***	10	***19***
Barium	PPB	2,000	75	50	48	83	74
Beryllium	PPB	4	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	<2	<2
Calcium	PPB	NS	52,000	39,000	28,000	57,000	52,200
Chromium	PPB	100	<2	<2	<2	<2	<2
Cobalt	PPB	NS	<2	<2	<2	<2	<2
Copper	PPB	1,300	<2	<2	<2	<2	<2
Iron	PPB	300	***23,000***	***2,500***	***17,000***	***19,000***	***24,200***
Lead	PPB	15	<2	<2	<2	<2	<2
Magnesium	PPB	NS	14,000	10,000	13,000	20,000	17,100
Manganese	PPB	50	***1,600***	***1,010***	***1,411***	***1,900***	***1,600***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	<2	<2	<2	<2	<2
Potassium	PPB	NS	6,300	5,400	6,100	8,100	9,960
Selenium	PPB	50	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2
Sodium	PPB	NS	66,000	49,000	42,000	51,000	58,300
Thallium	PPB	2	<1	<1	<1	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2
Zinc	PPB	5,000	<20	<20	<20	<20	<20
Volatile Organic Compounds	**Units**	**MCL**					
Acetone	PPB	NS	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-13

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Volatile Organic Compounds Cont.			09/23/14	03/25/15	09/28/15	03/30/16	10/27/16
Chloromethane	PPB	NS	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-13

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Indicators			03/29/17	09/19/17	03/29/18	09/27/18	03/25/19	09/24/19
pH	units	6.5-8.5	NT	6.83	8.11	NT	7.15	NT
Alkalinity	PPM	NS	NT	270	250	NT	250	NT
Chloride	PPM	250	NT	58	52	NT	46	NT
Total Dissolved Solids	PPM	500	NT	350	330	NT	120	NT
Hardness	PPM	NS	NT	200	190	NT	160	NT
Turbidity	NTU	15	NT	<5	***17***	NT	***26.1***	NT
Nitrate Nitrogen	PPM	10	NT	0.12	<0.05	NT	0.12	NT
Sulfate	PPM	250	NT	<10	<10	NT	<10	NT
Specific Conductance	umhos/cm	NS	NT	639	661	NT	479	NT
Chemical Oxygen Demand	PPM	NS	NT	18	26	NT	12	NT
Ammonia Nitrogen	PPM	NS	NT	2.5	1.7	NT	1.0	NT
Metals	**Units**	**MCL**						
Antimony	PPB	6	NT	<5	<5	NT	<5	NT
Arsenic	PPB	10	NT	***18***	5	NT	2	NT
Barium	PPB	2,000	NT	76	66	NT	51	NT
Beryllium	PPB	4	NT	<2	<2	NT	<2	NT
Cadmium	PPB	5	NT	<2	<2	NT	<2	NT
Calcium	PPB	NS	NT	45,100	47,300	NT	42,000	NT
Chromium	PPB	100	NT	<2	<2	NT	<2	NT
Cobalt	PPB	NS	NT	<2	<2	NT	<2	NT
Copper	PPB	1,300	NT	<2	<2	NT	<2	NT
Iron	PPB	300	NT	***20,700***	***8,930***	NT	***2,600***	NT
Lead	PPB	15	NT	<2	<2	NT	<2	NT
Magnesium	PPB	NS	NT	17,200	16,100	NT	10,700	NT
Manganese	PPB	50	NT	***1,520***	***1,360***	NT	***842***	NT
Mercury	PPB	2	NT	<0.5	<0.5	NT	<0.5	NT
Nickel	PPB	NS	NT	<2	<2	NT	<2	NT
Potassium	PPB	NS	NT	7,980	7,580	NT	4,570	NT
Selenium	PPB	50	NT	<5	<5	NT	<5	NT
Silver	PPB	100	NT	<2	<2	NT	<2	NT
Sodium	PPB	NS	NT	65,900	66,800	NT	55,100	NT
Thallium	PPB	2	NT	<2	<2	NT	<2	NT
Vanadium	PPB	NS	NT	<2	<2	NT	<2	NT
Zinc	PPB	5,000	NT	<20	<20	NT	<20	NT
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	NT	ND	ND	NT	ND	NT
Acrylonitrile	PPB	NS	NT	ND	ND	NT	ND	NT
Benzene	PPB	5	NT	ND	ND	NT	ND	NT
Bromochloromethane	PPB	NS	NT	ND	ND	NT	ND	NT
Bromodichloromethane	PPB	100	NT	ND	ND	NT	ND	NT
Bromoform	PPB	100	NT	ND	ND	NT	ND	NT
Bromomethane	PPB	NS	NT	ND	ND	NT	ND	NT
2-Butanone	PPB	NS	NT	ND	ND	NT	ND	NT
Carbon disulfide	PPB	NS	NT	ND	ND	NT	ND	NT
Carbon tetrachloride	PPB	5	NT	ND	ND	NT	ND	NT
Chlorobenzene	PPB	100	NT	ND	ND	NT	ND	NT
Chloroethane	PPB	NS	NT	ND	ND	NT	ND	NT
Choroform	PPB	NS	NT	ND	ND	NT	ND	NT

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-13

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Volatile Organic Compounds Cont.			03/29/17	09/19/17	03/29/18	09/27/18	03/25/19	09/24/19
Chloromethane	PPB	NS	NT	ND	ND	NT	ND	NT
Dibromochloromethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,2-Dibromo-3-chloropropane	PPB	0.2	NT	ND	ND	NT	ND	NT
1,2-Dibromoethane	PPB	NS	NT	ND	ND	NT	ND	NT
Dibromomethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,2-Dichlorobenzene	PPB	600	NT	ND	ND	NT	ND	NT
1,4-Dichlorobenzene	PPB	75	NT	ND	ND	NT	ND	NT
trans-1,4-Dichloro-2-butene	PPB	NS	NT	ND	ND	NT	ND	NT
1,1-Dichloroethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,2-Dichloroethane	PPB	5	NT	ND	ND	NT	ND	NT
1,1-Dichloroethene	PPB	7	NT	ND	ND	NT	ND	NT
cis-1,2,-Dichloroethene	PPB	70	NT	ND	ND	NT	ND	NT
trans-1,2-Dichloroethene	PPB	100	NT	ND	ND	NT	ND	NT
Methylene chloride/Dichloromethane	PPB	5	NT	ND	ND	NT	ND	NT
1,2-Dichloropropane	PPB	5	NT	ND	ND	NT	ND	NT
trans-1,3-Dichloropropene	PPB	NS	NT	ND	ND	NT	ND	NT
cis-1,3-Dichloropropene	PPB	NS	NT	ND	ND	NT	ND	NT
Ethylbenzene	PPB	700	NT	ND	ND	NT	ND	NT
2-Hexanone	PPB	NS	NT	ND	ND	NT	ND	NT
Iodomethane	PPB	NS	NT	ND	ND	NT	ND	NT
4-Methyl-2-pentanone	PPB	NS	NT	ND	ND	NT	ND	NT
Methyl-t-butyl ether	PPB	70	NT	ND	ND	NT	ND	NT
Styrene	PPB	100	NT	ND	ND	NT	ND	NT
1,1,1,2-Tetrachloroethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,1,2,2-Tetrachloroethane	PPB	NS	NT	ND	ND	NT	ND	NT
Tetrachloroethene	PPB	NS	NT	ND	ND	NT	ND	NT
Toluene	PPB	1,000	NT	ND	ND	NT	ND	NT
1,1,1-Trichloroethane	PPB	200	NT	ND	ND	NT	ND	NT
1,1,2-Trichloroethane	PPB	5	NT	ND	ND	NT	ND	NT
Trichloroethene	PPB	5	NT	ND	ND	NT	ND	NT
Trichlorofluoromethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,2,3-Trichloropropane	PPB	NS	NT	ND	ND	NT	ND	NT
Vinyl acetate	PPB	NS	NT	ND	ND	NT	ND	NT
Vinyl chloride	PPB	2	NT	ND	ND	NT	ND	NT
Xylene (Total)	PPB	10,000	NT	ND	ND	NT	ND	NT
Total VOCs	PPB	-	NT	ND	ND	NT	ND	NT

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R. B. Baker & Sons Rubble Landfill
Groundwater Monitoring Test Results
Monitoring Well W-14

Analyte			SA-50	SA-51	SA-52	SA-53	SA-54	SA-55	SA-56	SA-57	SA-58	SA-59	SA-60	SA-61	SA-62	SA-63	SA-64	SA-65	SA-66	SA-67	SA-68	SA-69	SA-70	SA-71	SA-72
Indicators	**Units**	**MCL**	4/28/04	9/7/04	12/6/04	2/8/05	6/13/05	9/21/05	11/14/05	02/01/06	05/15/06	07/20/06	10/19/06	02/21/07	05/01/07	08/02/07	12/20/07	03/17/08	06/24/08	09/30/08	03/10/09	07/17/09	01/29/10	07/30/10	02/17/11
pH	units	6.5-8.5	7.6	***6.3***	6.6	***5.7***	***6.4***	6.8	***4.9***	***5.13***	***5.45***	***5.20***	***5.66***	***4.90***	***5.20***	***5.57***	***6.23***	***6.48***	***NT***	***6.30***	***5.40***	6.60	7.10	***5.40***	***6.42***
Conductance (Specific)	umhos/cm	NS	130	140	140	670	130	130	540	120	120	140	130	120	1,100	130	140	120	130	110	110	94	130	150	140
Alkalinity	PPM	NS	44	56	64	160	38	36	120	32	32	36	28	41	240	24	40	32	28	32	24	28	36	53	40
Chloride	PPM	250	6.5	6.8	8.3	72.3	7.6	6.2	78.0	7.2	8.5	10.0	8.5	8.3	140.0	9.4	13.0	9.7	9.1	7	8.9	7	8.4	10	10
Hardness	PPM	NS	66	60	130	230	<1	72	220	150	76	40	160	74	280	52	54	100	32	48	64	52	120	48	48
Turbidity	NTU	15	1.9	1.3	1.9	***75.0***	0.55	0.08	0.71	4.10	0.40	0.15	0.10	0.90	***40.00***	0.60	2.40	7.80	0.40	0.30	0.10	0.23	0.05	0.19	1.00
Total Organic Halogen	PPM	NS	0.0075	0.008	0.010	0.019	<0.02	<0.02	0.034	0.010	0.011	0.016	<0.005	0.010	0.018	0.002	0.011	0.034	0.015	0.0086	ND	<0.02	ND	ND	ND
Total Suspended Solids	PPM	NS	3	<1	1	6	<1	<1	1	2	1	5	1	<1	3	1	<1	3	<1	2	<1	<1	<1	<1	1
Total Dissolved Solids	PPM	500	70	96	110	360	83	120	370	72	73	79	90	58	***570***	83	80	76	82	96	110	89	93	53	94
Chemical Oxygen Demand	PPM	NS	<10	<10	<10	16	<10	<10	<10	<10	43	<10	<10	<10	<11	<10	<10	11	<10	<10	11	13	<10	<10	<10
Sulfate	PPM	250	12.7	12.0	12.2	67.4	13.1	11.3	56.8	11.0	11.6	12.7	12.2	11.1	17.6	13.2	15.0	11.0	16.0	12	15	12	12	14	*
Nitrate Nitrogen	PPM	10	<0.05	<0.05	<0.05	0.50	<0.05	<0.1	1.60	<0.1	<0.1	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nitrate/Nitrite Nitrogen	PPM	NS	<0.02	<0.02	<0.05	0.50	<0.05	<0.1	1.60	<0.1	<0.1	<0.02	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.02	NT	<0.02	<0.02	NT	<0.02	<0.02
Nitrite Nitrogen	PPM	10	<0.05	<0.05	<0.05	<0.02	<0.05	<0.1	<0.1	<0.1	<0.1	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Ammonia Nitrogen	PPM	NS	<0.2	0.4	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	0.4	<0.2	<0.2	0.4	<0.2	<0.2	0.2
Metals																									
Arsenic	PPB	10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	10.0	<10	***90.0***	<2.0	<2	<2	<2	< 2	<2	<2	<2	<2
Barium	PPB	2,000	190	170	135	88.7	94.0	105.0	69.5	73.0	28.0	61.0	64.0	61.0	<100	97.0	50.0	44.0	34.0	38	37	36	39	68	51
Cadmium	PPB	5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	0.71	<0.5	<0.5	<0.5	<0.5	8.0	<0.5	***100.0***	0.8	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5
Calcium	PPB	NS	20,000	21,000	19,000	66,100	15,000	16,900	55,200	14,000	6,500	14,000	15,000	13,000	34,000	1,100	13,000	11,000	14,000	12,000	11,000	12,000	13,000	16,000	14,000
Chromium	PPB	100	<2	<2	2.3	2.1	<2	16.7	2.8	<2	<2	<2	3.0	8.0	<10	93.0	42.0	2.8	<2	<2	<2	<2	<2	<2	<2
Copper	PPB	1,000	<2	3.0	2.6	2.7	4.0	2.1	<2	2.6	<2	<2	<2	16.0	<10	110.0	2.4	<2	<2	<2	<2	<2	<2	<2	<2
Iron	PPB	300	187	160	<100	***1,250***	120	<100	125	324	<100	<100	<100	190.0	290.0	***930.0***	***649.0***	***390.0***	120.0	<50	<50	<50	<50	<50	***350***
Lead	PPB	15	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	9.0	12.0	10.0	***100.0***	<2.0	<2	<2	<2	<2	<2	<2	<2	<2
Magnesium	PPB	150,000	2,200	2,300	2,120	15,600	2,100	2,440	14,100	2,000	1,100	2,300	2,400	2,600	18,000	840	2,400	2,300	2,700	2,300	2,600	2,400	2,700	2,900	3,100
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Potassium	PPB	NS	2,070	2,200	1,570	3,920	1,500	1,700	3,940	1,400	680	1,400	<300	2,300	9,900	1,000	1,500	1,500	1,400	1,300	1,500	1,400	1,500	2,400	1,800
Selenium	PPB	50	<5	<5	<5	<5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<10	***98.0***	<5.0	<5	<5	<5	<5	<5	<5	<5	<5
Sodium	PPB	NS	5,000	5,300	4,490	37,600	4,600	4,890	31,700	4,900	2,400	4,800	10,000	23,000	37,000	1,100	5,400	4,900	5,400	4,300	4,900	4,500	5,100	5,700	5,300
Zinc	PPB	5,000	<10	15	<10	22.5	19.0	<10	22.0	38.0	<10	10.7	<10	***5,400***	50	300	530	13	<10	<10	10	<10	<10	<10	20
VOCs																									
Total VOCs	PPB		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0

Bold/Shaded results exceed the EPA Maximum Containment Level (MCL) for Drinking Water.
NS - No Standard
ND - None Detected
NT - Not Tested
* - Sulfate results were in the 3000 mg/L range. It is suspected that this is a result of laboratory contamination.

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-14

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Indicators			09/21/11	03/26/12	09/20/12	04/26/13	09/19/13	03/27/14
pH	units	6.5-8.5	***6.40***	7.34	***6.03***	6.50	***5.90***	6.70
Alkalinity	PPM	NS	36	40	48	34	40	34
Chloride	PPM	250	8.4	7.8	7.1	6.8	5.7	7.4
Total Dissolved Solids	PPM	500	72	96	73	58	120	85
Hardness	PPM	NS	40	44	52	48	50	46
Turbidity	NTU	15	0.6	0.85	1.20	0.6	0.4	0.6
Nitrate Nitrogen	PPM	10	<0.02	0.02	<0.02	0.29	0.19	0.19
Sulfate	PPM	250	<10	19	<10	17	13	10
Specific Conductance	umhos/cm	NS	120	170	150	110	130	140
Chemical Oxygen Demand	PPM	NS	<10	<10	11	<10	11	<10
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	0.4	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<5
Arsenic	PPB	10	2	<2	6	<2	4	<2
Barium	PPB	2,000	48	21	52	37	49	37
Beryllium	PPB	4	<0.5	<0.5	<0.5	<2	<2	<2
Cadmium	PPB	5	<0.5	<0.5	<0.5	<2	<2	<2
Calcium	PPB	NS	12,000	13,000	15,000	14,000	14,000	13,000
Chromium	PPB	100	<2	<2	<2	<2	<2	<2
Cobalt	PPB	NS	3	<2	5	<2	<2	<2
Copper	PPB	1,300	<2	<2	<2	<2	<2	<2
Iron	PPB	300	***490***	100	***2,500***	***320***	***1,400***	***11,000***
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	2,900	2,800	3,100	2,900	2,900	2,600
Manganese	PPB	50	***270***	4	***430***	6	***166***	8
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	3	<2	2	<2	<2	<2
Potassium	PPB	NS	1,600	1,500	1,600	1,600	1,400	1,300
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<1	<1	<1	<2	<2	<2
Sodium	PPB	NS	6,900	4,800	5,400	5,400	5,400	5,100
Thallium	PPB	2	<1	<1	<1	<1	<1	<1
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	15	13	18	16	<20	<20
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-14

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Volatile Organic Compounds Cont.			**09/21/11**	**03/26/12**	**09/20/12**	**04/26/13**	**09/19/13**	**03/27/14**
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-14

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Indicators			09/23/14	03/25/15	09/28/15	03/30/16	10/27/16
pH	units	6.5-8.5	***5.80***	***5.90***	6.51	***6.18***	7.13
Alkalinity	PPM	NS	43	40	56	39	52
Chloride	PPM	250	8	7.7	7.5	4.8	6.5
Total Dissolved Solids	PPM	500	120	98	96	79	160
Hardness	PPM	NS	54	62	55	52	56
Turbidity	NTU	15	0.75	0.79	***32.00***	4.90	<5
Nitrate Nitrogen	PPM	10	<0.02	0.28	0.07	0.12	0.11
Sulfate	PPM	250	<10	10	11	<10	<10
Specific Conductance	umhos/cm	NS	140	110	160	140	162
Chemical Oxygen Demand	PPM	NS	<10	14	<10	<10	<10
Ammonia Nitrogen	PPM	NS	0.5	<0.2	1.1	0.2	1.8
Metals	**Units**	**MCL**					
Antimony	PPB	6	<5	<5	<5	<5	<5
Arsenic	PPB	10	4	<2	4	7	4
Barium	PPB	2,000	54	40	51	37	42
Beryllium	PPB	4	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	<2	<2
Calcium	PPB	NS	14,000	14,000	17,000	18,000	12,900
Chromium	PPB	100	<2	<2	<2	<2	<2
Cobalt	PPB	NS	<2	<2	<2	<2	<2
Copper	PPB	1,300	<2	<2	<2	<2	<2
Iron	PPB	300	***1,600***	90	***3,000***	***2,700***	***2,810***
Lead	PPB	15	<2	<2	<2	<2	<2
Magnesium	PPB	NS	2,800	2,800	3,000	2,800	3,210
Manganese	PPB	50	***130***	7	***195***	***55***	***181***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	<2	<2	<2	<2	<2
Potassium	PPB	NS	1,500	1,400	1,500	1,400	1,760
Selenium	PPB	50	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2
Sodium	PPB	NS	5,000	5,100	5,100	4,000	4,640
Thallium	PPB	2	<1	<1	<1	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2
Zinc	PPB	5,000	<20	21	<20	<20	<20
Volatile Organic Compounds	**Units**	**MCL**					
Acetone	PPB	NS	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	1.8	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-14

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Volatile Organic Compounds Cont.			09/23/14	03/25/15	09/28/15	03/30/16	10/27/16
Chloromethane	PPB	NS	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND
Total VOCs	PPB	-	1.8	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-14

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Indicators			03/29/17	09/18/17	03/29/18	09/27/18	03/25/19	09/24/19
pH	units	6.5-8.5	NT	***6.14***	7.28	NT	***5.72***	NT
Alkalinity	PPM	NS	NT	37	36	NT	36	NT
Chloride	PPM	250	NT	7.7	4.5	NT	8.4	NT
Total Dissolved Solids	PPM	500	NT	63	74	NT	75	NT
Hardness	PPM	NS	NT	57	55	NT	46	NT
Turbidity	NTU	15	NT	<5	<5	NT	<5	NT
Nitrate Nitrogen	PPM	10	NT	0.38	0.05	NT	0.27	NT
Sulfate	PPM	250	NT	<10	<10	NT	<10	NT
Specific Conductance	umhos/cm	NS	NT	107	136	NT	120	NT
Chemical Oxygen Demand	PPM	NS	NT	<10	<10	NT	<10	NT
Ammonia Nitrogen	PPM	NS	NT	<0.2	<0.2	NT	<0.2	NT
Metals	**Units**	**MCL**						
Antimony	PPB	6	NT	<5	<5	NT	<5	NT
Arsenic	PPB	10	NT	5	7	NT	<2	NT
Barium	PPB	2,000	NT	39	32	NT	38	NT
Beryllium	PPB	4	NT	<2	<2	NT	<2	NT
Cadmium	PPB	5	NT	<2	<2	NT	<2	NT
Calcium	PPB	NS	NT	13,800	16,000	NT	14,100	NT
Chromium	PPB	100	NT	<2	<2	NT	<2	NT
Cobalt	PPB	NS	NT	2	<2	NT	<2	NT
Copper	PPB	1,300	NT	<2	<2	NT	<2	NT
Iron	PPB	300	NT	***2,340***	***1,270***	NT	<50	NT
Lead	PPB	15	NT	<2	<2	NT	<2	NT
Magnesium	PPB	NS	NT	3,100	2,590	NT	3,210	NT
Manganese	PPB	50	NT	***154***	50	NT	4	NT
Mercury	PPB	2	NT	<0.5	<0.5	NT	<0.5	NT
Nickel	PPB	NS	NT	<2	2	NT	<2	NT
Potassium	PPB	NS	NT	1,560	1,280	NT	1,560	NT
Selenium	PPB	50	NT	<5	<5	NT	<5	NT
Silver	PPB	100	NT	<2	<2	NT	<2	NT
Sodium	PPB	NS	NT	4,910	3,280	NT	5,670	NT
Thallium	PPB	2	NT	<2	<2	NT	<2	NT
Vanadium	PPB	NS	NT	<2	<2	NT	<2	NT
Zinc	PPB	5,000	NT	<20	<20	NT	<20	NT
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	NT	ND	ND	NT	ND	NT
Acrylonitrile	PPB	NS	NT	ND	ND	NT	ND	NT
Benzene	PPB	5	NT	ND	ND	NT	ND	NT
Bromochloromethane	PPB	NS	NT	ND	ND	NT	ND	NT
Bromodichloromethane	PPB	100	NT	ND	ND	NT	ND	NT
Bromoform	PPB	100	NT	ND	ND	NT	ND	NT
Bromomethane	PPB	NS	NT	ND	ND	NT	ND	NT
2-Butanone	PPB	NS	NT	ND	ND	NT	ND	NT
Carbon disulfide	PPB	NS	NT	ND	ND	NT	ND	NT
Carbon tetrachloride	PPB	5	NT	ND	ND	NT	ND	NT
Chlorobenzene	PPB	100	NT	ND	ND	NT	ND	NT
Chloroethane	PPB	NS	NT	ND	ND	NT	ND	NT
Choroform	PPB	NS	NT	ND	ND	NT	ND	NT

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-14

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Volatile Organic Compounds Cont.			03/29/17	09/18/17	03/29/18	09/27/18	03/25/19	09/24/19
Chloromethane	PPB	NS	NT	ND	ND	NT	ND	NT
Dibromochloromethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,2-Dibromo-3-chloropropane	PPB	0.2	NT	ND	ND	NT	ND	NT
1,2-Dibromoethane	PPB	NS	NT	ND	ND	NT	ND	NT
Dibromomethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,2-Dichlorobenzene	PPB	600	NT	ND	ND	NT	ND	NT
1,4-Dichlorobenzene	PPB	75	NT	ND	ND	NT	ND	NT
trans-1,4-Dichloro-2-butene	PPB	NS	NT	ND	ND	NT	ND	NT
1,1-Dichloroethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,2-Dichloroethane	PPB	5	NT	ND	ND	NT	ND	NT
1,1-Dichloroethene	PPB	7	NT	ND	ND	NT	ND	NT
cis-1,2,-Dichloroethene	PPB	70	NT	ND	ND	NT	ND	NT
trans-1,2-Dichloroethene	PPB	100	NT	ND	ND	NT	ND	NT
Methylene chloride/Dichloromethane	PPB	5	NT	ND	ND	NT	ND	NT
1,2-Dichloropropane	PPB	5	NT	ND	ND	NT	ND	NT
trans-1,3-Dichloropropene	PPB	NS	NT	ND	ND	NT	ND	NT
cis-1,3-Dichloropropene	PPB	NS	NT	ND	ND	NT	ND	NT
Ethylbenzene	PPB	700	NT	ND	ND	NT	ND	NT
2-Hexanone	PPB	NS	NT	ND	ND	NT	ND	NT
Iodomethane	PPB	NS	NT	ND	ND	NT	ND	NT
4-Methyl-2-pentanone	PPB	NS	NT	ND	ND	NT	ND	NT
Methyl-t-butyl ether	PPB	70	NT	ND	ND	NT	ND	NT
Styrene	PPB	100	NT	ND	ND	NT	ND	NT
1,1,1,2-Tetrachloroethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,1,2,2-Tetrachloroethane	PPB	NS	NT	ND	ND	NT	ND	NT
Tetrachloroethene	PPB	NS	NT	ND	ND	NT	ND	NT
Toluene	PPB	1,000	NT	ND	ND	NT	ND	NT
1,1,1-Trichloroethane	PPB	200	NT	ND	ND	NT	ND	NT
1,1,2-Trichloroethane	PPB	5	NT	ND	ND	NT	ND	NT
Trichloroethene	PPB	5	NT	ND	ND	NT	ND	NT
Trichlorofluoromethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,2,3-Trichloropropane	PPB	NS	NT	ND	ND	NT	ND	NT
Vinyl acetate	PPB	NS	NT	ND	ND	NT	ND	NT
Vinyl chloride	PPB	2	NT	ND	ND	NT	ND	NT
Xylene (Total)	PPB	10,000	NT	ND	ND	NT	ND	NT
Total VOCs	PPB	-	NT	ND	ND	NT	ND	NT

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R. B. Baker & Sons Rubble Landfill
Groundwater Monitoring Test Results
Monitoring Well W-15

Analyte Indicators	Units	MCL	SA-50 4/28/04	SA-51 9/7/04	SA-52 12/6/04	SA-53 2/8/05	SA-54 6/13/05	SA-55 9/21/05	SA-56 11/14/05	SA-57 02/01/06	SA-58 05/15/06	SA-59 07/20/06	SA-60 10/19/06	SA-61 02/21/07	SA-62 05/01/07	SA-63 08/02/07	SA-64 12/20/07	SA-65 03/17/08	SA-66 06/24/08	SA-67 09/30/08	SA-68 03/10/09	SA-69 07/17/09	SA-70 01/29/10	SA-71 07/30/10	SA-72 02/17/11
pH	units	6.5-8.5	4.8	5.9	5.9	6.2	5.8	5.1	5.8	6.31	5.68	5.30	5.41	4.80	5.30	5.58	6.19	6.22	NT	6.10	6.30	5.90	7.00	6.20	6.09
Conductance (Specific)	umhos/cm	NS	940	430	590	140	730	570	120	630	720	730	650	720	1,100	710	940	870	950	690	860	690	910	970	900
Alkalinity	PPM	NS	250	100	150	28	190	120	40	130	180	160	140	200	240	130	230	230	240	160	240	240	230	140	220
Chloride	PPM	250	120.0	52.5	94.6	6.8	69.6	70.3	6.8	65.9	71.1	64.0	59.8	60.2	135.0	111.0	100.0	68.0	110.0	96	68	84	95	170	83
Hardness	PPM	NS	370	160	340	80	300	220	56	440	300	340	200	260	270	240	370	400	340	240	370	460	410	300	470
Turbidity	NTU	15	24.0	2.1	14.0	3.8	0.30	0.06	0.42	0.40	5.40	0.15	0.10	0.20	39.00	1.50	21.00	3.40	0.60	0.1	1.0	0.20	0.15	0.53	6.00
Total Organic Halogen	PPM	NS	0.081	0.048	0.035	0.014	0.029	0.023	0.019	0.045	0.051	0.016	0.034	0.046	0.018	0.017	0.063	0.046	0.026	0.030	0.054	0.030	0.031	0.023	ND
Total Suspended Solids	PPM	NS	38	<1	2	<1	1	<1	<1	2	2	6	<1	<1	5	1	2	1	<1	4	<1	1	<1	<1	<1
Total Dissolved Solids	PPM	500	640	260	390	130	430	360	98	320	400	430	350	380	550	410	490	530	520	410	540	590	310	590	590
Chemical Oxygen Demand	PPM	NS	31	<10	14	<10	21	12	18	<10	18	<10	<10	<10	39	<10	<10	18	<10	<10	<10	23	<10	<10	61
Sulfate	PPM	250	118.0	59.6	66.5	11.8	76.4	56.0	11.6	63.2	74.1	68.1	62.8	62.9	17.9	67.2	82.0	100.0	110.0	56	95	89	79	53	*
Nitrate Nitrogen	PPM	10	0.42	1.30	0.88	0.02	0.44	1.70	<0.1	0.65	0.27	0.18	0.47	0.10	<0.1	1.00	0.18	<0.1	<0.1	0.3	0.02	0.05	0.07	1.3	<0.02
Nitrate/Nitrite Nitrogen	PPM	NS	0.31	0.96	0.88	0.02	0.44	1.70	<0.1	0.65	0.27	0.18	0.47	0.10	<0.1	1.00	<0.02	<0.02	<0.02	NT	0.02	0.05	NT	<0.02	<0.02
Nitrite Nitrogen	PPM	10	<0.05	<0.05	<0.05	<0.02	<0.05	<0.1	<0.1	<0.1	<0.1	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.02	<0.02	1.3	<0.02
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	<0.2	<0.2	0.5	0.2	<0.2	0.2
Metals																									
Arsenic	PPB	10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	8.0	<10	<2	10.0	<2	<2	<2	<2	<2	<2	<0.2	<2
Barium	PPB	2,000	161.0	62.0	72.9	102.0	90.0	76.0	99.6	83.0	44.0	87.0	75.0	92.0	<100	<5	160	110	100	81	120	120	120	100	126
Cadmium	PPB	5	0.66	0.88	0.60	<0.5	1.5	0.8	<0.5	1.1	0.7	1.5	<0.5	4.0	<0.5	<0.5	4.4	2.3	2.2	0.6	2.6	2.1	1.0	0.7	2.3
Calcium	PPB	NS	73,800	46,000	55,700	16,400	75,000	58,600	15,900	68,000	42,000	78,000	58,000	75,000	32,000	<300	110,000	140,000	130,000	59,000	120,000	120,000	99,300	81,000	136,000
Chromium	PPB	100	4.2	<2	3.9	2.2	<2	6375	2.9	<2	<2	<2	<2	5.0	<10	<2	71.0	2.0	<2	<2	<2	<2	<2	<2	<2
Copper	PPB	1,000	2.4	2.8	58.60	2.30	4.4	<2	<2	2.3	<2	<2	<2	14.0	<10	<2	51.0	8.0	<2	<2	<2	<2	<2	<2	<2
Iron	PPB	300	4,320	360	1,100	253	590	<100	<100	190	170	<100	<100	190.0	140.0	<100	46,000	79.0	200.0	<50	110	110	50	<50	1,500
Lead	PPB	15	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	8.0	8.0	20.0	<2	19	<2	<2	<2	<2	<2	<2	<2	<2
Magnesium	PPB	150,000	37,600	11,000	14,100	2,320	13,000	15,100	1,980	16,000	6,400	15,000	12,000	19,000	17,000	<100	18,000	6,700	16,000	21,000	14,000	18,000	28,000	24,000	8,100
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	<0.5
Potassium	PPB	NS	5,490	5,800	3,790	1,400	3,700	4,320	1,510	4,400	1,800	3,900	2,700	6,000	9,500	<300	6,000	4,200	5,400	8,300	5,900	6,500	8,200	8,800	4,900
Selenium	PPB	50	<5	<5	<5	<5	<5	<5	<5	<5	<0.5	<5	<5	<5	<10	<5	<5.0	<5	<5	<5	<5	<5	<5	<5	<5
Sodium	PPB	NS	68,300	39,000	40,300	4,840	32,000	40,300	4,430	38,000	16,000	33,000	9,400	54,000	35,000	<300	41,000	39,000	35,000	43,000	33,000	32,000	40,000	52,000	31,000
Zinc	PPB	5,000	22.4	31.0	20.1	22.0	24.0	21.7	19.0	31.0	<10	16.0	<10	46.0	40.0	220.0	110.0	17.0	<10	<10	20	20	<10	<10	16
Volatile Organic Compounds																									
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	PPB	70	3.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.57	ND	0.51	ND	ND	ND	ND	ND	0.7
Total VOCs	PPB		3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.51	0	0	0	0	0	0.7

Bold/Shaded results exceed the EPA Maximum Containment Level (MCL)
NS - No Standard
ND - None Detected
NT - Not Tested
* - Sulfate results were in the 3000 mg/L range. It is suspected that this is a result of laboratory contamination.

*Note: In SA-55, The result for chromium is believed not to be collected from R.B. Baker & Sons Rubble Landfill.

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-15

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Indicators			09/21/11	03/26/12	09/20/12	04/26/13	09/19/13	03/27/14
pH	units	6.5-8.5	***6.30***	6.85	***6.13***	***6.40***	***6.00***	***6.10***
Alkalinity	PPM	NS	260	180	290	230	260	260
Chloride	PPM	250	81	95	75	82	84	95
Total Dissolved Solids	PPM	500	***590***	450	***640***	440	***560***	***530***
Hardness	PPM	NS	380	290	420	320	370	320
Turbidity	NTU	15	0.70	0.80	3.50	4.5	***17.0***	0.9
Nitrate Nitrogen	PPM	10	<0.02	1.0	0.0	1.5	0.56	0.89
Sulfate	PPM	250	77	64	86	66	54	53
Specific Conductance	umhos/cm	NS	860	920	1100	670	760	850
Chemical Oxygen Demand	PPM	NS	24	13	30	15	33	<10
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	0.4	<0.2	0.8	<0.2
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<5
Arsenic	PPB	10	<2	<2	7	<2	4	<2
Barium	PPB	2,000	121	80	130	107	115	110
Beryllium	PPB	4	<0.5	<0.5	<0.5	<2	<2	<2
Cadmium	PPB	5	2.5	1.2	<0.5	<2	<2	<2
Calcium	PPB	NS	130,000	85,000	160,000	98,000	130,000	100,000
Chromium	PPB	100	<2	<2	<2	<2	<2	<2
Cobalt	PPB	NS	6	<2	9	<2	7	<2
Copper	PPB	1,300	<2	<2	<2	<2	<2	<2
Iron	PPB	300	***1,000***	<50	***6,300***	***1,100***	***6,400***	***16,000***
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	7,600	20,000	8,000	17,000	7,800	15,000
Manganese	PPB	50	***260***	***116***	***360***	***98***	***356***	***130***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	4	3	2	3	<2	<2
Potassium	PPB	NS	4,300	6,600	4,700	6,400	4,100	4,900
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<1	<1	<1	<2	<2	<2
Sodium	PPB	NS	32,000	34,000	39,000	38,000	36,000	38,000
Thallium	PPB	2	<1	<1	<1	<1	<1	<1
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	14	11	16	14	<20	<20
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-15

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Volatile Organic Compounds Cont.			**09/21/11**	**03/26/12**	**09/20/12**	**04/26/13**	**09/19/13**	**03/27/14**
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-15

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Indicators			**09/23/14**	**03/25/15**	**09/28/15**	**03/30/16**	**10/27/16**
pH	units	6.5-8.5	***5.70***	***5.80***	***6.18***	***6.06***	6.77
Alkalinity	PPM	NS	220	230	280	250	270
Chloride	PPM	250	77	94	80	84	80
Total Dissolved Solids	PPM	500	500	470	***540***	500	***630***
Hardness	PPM	NS	340	320	360	350	380
Turbidity	NTU	15	0.92	0.98	1.30	2.00	<5
Nitrate Nitrogen	PPM	10	0.41	0.84	0.23	0.54	0.13
Sulfate	PPM	250	40	45	56	52	43
Specific Conductance	umhos/cm	NS	670	630	810	880	899
Chemical Oxygen Demand	PPM	NS	<10	<10	17	<10	19
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**					
Antimony	PPB	6	<5	<5	<5	<5	<5
Arsenic	PPB	10	<2	<2	<2	<2	<2
Barium	PPB	2,000	103	94	97	107	109
Beryllium	PPB	4	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	3	<2
Calcium	PPB	NS	95,000	92,000	130,000	110,000	125,000
Chromium	PPB	100	<2	<2	<2	<2	<2
Cobalt	PPB	NS	6	<2	4	<2	6
Copper	PPB	1,300	<2	<2	<2	<2	<2
Iron	PPB	300	***2,100***	110	***2,300***	***430***	***3,680***
Lead	PPB	15	<2	<2	<2	<2	<2
Magnesium	PPB	NS	14,000	17,000	7,100	12,000	7,360
Manganese	PPB	50	***370***	***125***	***260***	***110***	***246***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	3	<2	2	2	3
Potassium	PPB	NS	5,200	5,600	4,000	5,500	4,600
Selenium	PPB	50	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2
Sodium	PPB	NS	38,000	38,000	36,000	42,000	37,900
Thallium	PPB	2	<1	<1	<1	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2
Zinc	PPB	5,000	<20	<20	<20	<20	<20
Volatile Organic Compounds	**Units**	**MCL**					
Acetone	PPB	NS	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-15

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Volatile Organic Compounds Cont.			09/23/14	03/25/15	09/28/15	03/30/16	10/27/16
Chloromethane	PPB	NS	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-15

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Indicators			**03/29/17**	**09/18/17**	**03/29/18**	**09/27/18**	**03/25/19**	**09/24/19**
pH	units	6.5-8.5	NT	***6.14***	7.22	NT	***6.06***	NT
Alkalinity	PPM	NS	NT	250	270	NT	290	NT
Chloride	PPM	250	NT	86	81	NT	110	NT
Total Dissolved Solids	PPM	500	NT	***550***	***540***	NT	460	NT
Hardness	PPM	NS	NT	400	390	NT	370	NT
Turbidity	NTU	15	NT	<5	<5	NT	<5	NT
Nitrate Nitrogen	PPM	10	NT	0.09	0.07	NT	2.10	NT
Sulfate	PPM	250	NT	47	41	NT	33	NT
Specific Conductance	umhos/cm	NS	NT	758	841	NT	773	NT
Chemical Oxygen Demand	PPM	NS	NT	15	12	NT	<10	NT
Ammonia Nitrogen	PPM	NS	NT	<0.2	<0.2	NT	<0.2	NT
Metals	**Units**	**MCL**						
Antimony	PPB	6	NT	<5	<5	NT	<5	NT
Arsenic	PPB	10	NT	<2	<2	NT	<2	NT
Barium	PPB	2,000	NT	118	121	NT	108	NT
Beryllium	PPB	4	NT	<2	<2	NT	<2	NT
Cadmium	PPB	5	NT	<2	<2	NT	<2	NT
Calcium	PPB	NS	NT	138,000	134,000	NT	94,200	NT
Chromium	PPB	100	NT	<2	<2	NT	<2	NT
Cobalt	PPB	NS	NT	5	3	NT	<2	NT
Copper	PPB	1,300	NT	<2	<2	NT	<2	NT
Iron	PPB	300	NT	***1,810***	184	NT	<50	NT
Lead	PPB	15	NT	<2	<2	NT	<2	NT
Magnesium	PPB	NS	NT	6,720	7,280	NT	24,400	NT
Manganese	PPB	50	NT	***198***	***142***	NT	***88***	NT
Mercury	PPB	2	NT	<0.5	<0.5	NT	<0.5	NT
Nickel	PPB	NS	NT	4	3	NT	<2	NT
Potassium	PPB	NS	NT	4,620	4,770	NT	5,300	NT
Selenium	PPB	50	NT	<5	<5	NT	<5	NT
Silver	PPB	100	NT	<2	<2	NT	<2	NT
Sodium	PPB	NS	NT	41,600	39,600	NT	56,700	NT
Thallium	PPB	2	NT	<2	<2	NT	<2	NT
Vanadium	PPB	NS	NT	<2	<2	NT	<2	NT
Zinc	PPB	5,000	NT	<20	21	NT	<20	NT
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	NT	ND	ND	NT	ND	NT
Acrylonitrile	PPB	NS	NT	ND	ND	NT	ND	NT
Benzene	PPB	5	NT	ND	ND	NT	ND	NT
Bromochloromethane	PPB	NS	NT	ND	ND	NT	ND	NT
Bromodichloromethane	PPB	100	NT	ND	ND	NT	ND	NT
Bromoform	PPB	100	NT	ND	ND	NT	ND	NT
Bromomethane	PPB	NS	NT	ND	ND	NT	ND	NT
2-Butanone	PPB	NS	NT	ND	ND	NT	ND	NT
Carbon disulfide	PPB	NS	NT	ND	ND	NT	ND	NT
Carbon tetrachloride	PPB	5	NT	ND	ND	NT	ND	NT
Chlorobenzene	PPB	100	NT	ND	ND	NT	ND	NT
Chloroethane	PPB	NS	NT	ND	ND	NT	ND	NT
Choroform	PPB	NS	NT	ND	ND	NT	ND	NT

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL W-15

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Volatile Organic Compounds Cont.			03/29/17	09/18/17	03/29/18	09/27/18	03/25/19	09/24/19
Chloromethane	PPB	NS	NT	ND	ND	NT	ND	NT
Dibromochloromethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,2-Dibromo-3-chloropropane	PPB	0.2	NT	ND	ND	NT	ND	NT
1,2-Dibromoethane	PPB	NS	NT	ND	ND	NT	ND	NT
Dibromomethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,2-Dichlorobenzene	PPB	600	NT	ND	ND	NT	ND	NT
1,4-Dichlorobenzene	PPB	75	NT	ND	ND	NT	ND	NT
trans-1,4-Dichloro-2-butene	PPB	NS	NT	ND	ND	NT	ND	NT
1,1-Dichloroethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,2-Dichloroethane	PPB	5	NT	ND	ND	NT	ND	NT
1,1-Dichloroethene	PPB	7	NT	ND	ND	NT	ND	NT
cis-1,2,-Dichloroethene	PPB	70	NT	ND	ND	NT	ND	NT
trans-1,2-Dichloroethene	PPB	100	NT	ND	ND	NT	ND	NT
Methylene chloride/Dichloromethane	PPB	5	NT	ND	ND	NT	ND	NT
1,2-Dichloropropane	PPB	5	NT	ND	ND	NT	ND	NT
trans-1,3-Dichloropropene	PPB	NS	NT	ND	ND	NT	ND	NT
cis-1,3-Dichloropropene	PPB	NS	NT	ND	ND	NT	ND	NT
Ethylbenzene	PPB	700	NT	ND	ND	NT	ND	NT
2-Hexanone	PPB	NS	NT	ND	ND	NT	ND	NT
Iodomethane	PPB	NS	NT	ND	ND	NT	ND	NT
4-Methyl-2-pentanone	PPB	NS	NT	ND	ND	NT	ND	NT
Methyl-t-butyl ether	PPB	70	NT	ND	ND	NT	ND	NT
Styrene	PPB	100	NT	ND	ND	NT	ND	NT
1,1,1,2-Tetrachloroethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,1,2,2-Tetrachloroethane	PPB	NS	NT	ND	ND	NT	ND	NT
Tetrachloroethene	PPB	NS	NT	ND	ND	NT	ND	NT
Toluene	PPB	1,000	NT	ND	ND	NT	ND	NT
1,1,1-Trichloroethane	PPB	200	NT	ND	ND	NT	ND	NT
1,1,2-Trichloroethane	PPB	5	NT	ND	ND	NT	ND	NT
Trichloroethene	PPB	5	NT	ND	ND	NT	ND	NT
Trichlorofluoromethane	PPB	NS	NT	ND	ND	NT	ND	NT
1,2,3-Trichloropropane	PPB	NS	NT	ND	ND	NT	ND	NT
Vinyl acetate	PPB	NS	NT	ND	ND	NT	ND	NT
Vinyl chloride	PPB	2	NT	ND	ND	NT	ND	NT
Xylene (Total)	PPB	10,000	NT	ND	ND	NT	ND	NT
Total VOCs	PPB	-	NT	ND	ND	NT	ND	NT

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R. B. Baker & Sons Rubble Landfill
Groundwater Monitoring Test Results
Monitoring Well Pond 1

Analyte			SA-50	SA-51	SA-52	SA-53	SA-54	SA-55	SA-56	SA-57	SA-58	SA-59	SA-60	SA-61	SA-62	SA-63	SA-64	SA-65	SA-66	SA-67	SA-68	SA-69	SA-70	SA-71	SA-72
Indicators	**Units**	**MCL**	4/28/04	9/7/04	12/6/04	2/8/05	6/13/05	9/21/05	11/14/05	02/01/06	05/15/06	07/20/06	10/19/06	02/21/07	05/01/07	08/02/07	12/20/07	03/17/08	06/24/08	09/30/08	03/10/09	07/17/09	01/29/10	07/30/10	02/17/11
pH	units	6.5-8.5	7.5	7.5	7.8	7.5	8.5	7.0	6.7	7.66	8.36	6.70	***5.83***	7.30	***5.40***	7.23	8.30	***NT***	***NT***	***6.10***	***6.40***	7.10	***6.20***	6.60	7.07
Conductance (Specific)	umhos/cm	NS	370	420	430	490	440	440	440	480	540	450	520	160	1100	510	620	560	500	470	480	360	440	400	370
Alkalinity	PPM	NS	130	140	150	130	130	150	130	140	130	120	150	60	250	140	160	160	120	160	140	140	120	110	120
Chloride	PPM	250	37.7	44.3	46.4	39.7	39.4	43.1	43.0	42.6	55.4	51.0	51.5	12.9	136.0	59.2	78.0	45.0	62.0	49	43	40	36	35	31
Hardness	PPM	NS	170	160.0	170.0	180.0	130.0	180.0	150.0	260.0	190.0	180.0	290.0	110.0	240.0	170.0	170.0	240.0	96.0	150	280	170	170	160	270
Turbidity	NTU	15	4.4	***18.0***	4.4	4.0	0.85	3.40	3.30	1.00	2.40	0.65	***17.00***	1.90	***11.00***	2.30	4.00	4.00	1.10	2.5	3.7	0.90	***15.00***	0.67	2.30
Total Organic Halogen	PPM	NS	0.023	0.094	0.050	0.066	0.026	<0.02	0.052	0.045	0.052	0.055	0.054	0.016	0.010	0.018	0.042	0.050	0.043	0.034	ND	0.02	ND	ND	ND
Total Suspended Solids	PPM	NS	4	2	2	4.0	1.0	5.0	3.0	3.0	3.0	2.0	3.0	1.0	4.0	<1	3.0	5.0	2.0	3	3	2	11	<1	<1
Total Dissolved Solids	PPM	500	230	240.0	290.0	360.0	230.0	260.0	260.0	250.0	370.0	260.0	260.0	59.0	***550.0***	270.0	290.0	280.0	220.0	260	280	260	200	180	200
Chemical Oxygen Demand	PPM	NS	18	18.0	39.0	32.0	43.0	34.0	30.0	16.0	29.0	25.0	25.0	<10	39.0	36.0	25.0	43.0	18.0	36	43	36	13	16	13
Sulfate	PPM	250	34.6	<0.05	28.2	31.6	31.1	21.2	23.5	30.9	36.7	30.3	23.2	7.9	18.8	28.2	31.0	27.0	37.0	19	34	28	27	33	38
Nitrate Nitrogen	PPM	10	<0.05	<0.05	<0.05	0.02	<0.05	<0.1	<0.1	<0.1	<0.1	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	0.57	<0.02	<0.02	<0.02	0.67
Nitrite Nitrogen	PPM	NS	<0.05	<0.05	<0.05	<0.02	<0.05	<0.1	<0.1	<0.1	<0.1	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.02	0.57	<0.02	<0.02	<0.02	<0.02
Nitrate-Nitrite N	PPM	NS	<0.02	0.03	<0.05	0.02	<0.05	<0.1	<0.1	<0.1	<0.1	<0.02	<0.1	<0.1	<0.1	<0.1	<0.02	<0.1	<0.1	NT	<0.02	<0.02	NT	<0.02	0.67
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	0.5	<0.2	<0.2	0.4	<0.2	<0.2	0.2
Metals																									
Arsenic	PPB	10	<2	2.7	<2	<2	<2	<2	<2	<2	<2	3.2	<2	***16.0***	<10	2.9	<2.0	<2	3.0	<2	<2	3	2	2	<2
Barium	PPB	2,000	37.6	42.0	45.6	45.0	30.0	36.8	48.8	46.0	20.3	49.0	50.0	45.0	<100	160.0	51.0	57.0	30.0	50	56	49	52	33	42
Cadmium	PPB	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	***13.0***	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium	PPB	NS	36,100	34,000	34,600	32,800	26,000	31,800	32,100	36,000	15,000	36,000	28,000	16,000	33,000	78,000	30,000	33,000	23,000	24,000	32,000	29,000	31,000	27,000	29,000
Chromium	PPB	100	<2	<2	2.8	<2	<2	5.3	2.4	<2	<2	<2	<2	16.0	<10	<2	<2	2.6	<2	<2	<2	7	<2	<2	<2
Copper	PPB	1,000	2	3.1	<2	3.2	3.3	<2	<2	2.4	<2	2.6	<2	29.0	<10	6.8	<2	<2	<2	<2	<2	<2	<2	<2	<2
Iron	PPB	300	***421***	***670***	243	***530***	280	205	148	130	<100	***330***	<100	***410.0***	200.0	***420.0***	260.0	120.0	68.0	110	290	110	***750***	60	240
Lead	PPB	15	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	8.8	***20.0***	***20.0***	3.2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Magnesium	PPB	150,000	14,500	17,000	16,700	16,800	14,000	18,100	17,100	17,000	9,700	20,000	15,000	7,800	18,000	17,000	20,000	20,000	20,000	18,000	18,000	18,000	15,000	15,000	13,000
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
Potassium	PPB	NS	4,890	5,400	5,090	4,540	4,400	5,740	5,530	5,600	3,000	7,100	5,000	4,800	9,200	4,800	8,400	10,000	8,400	7,900	8,800	9,300	7,900	7,000	6,700
Selenium	PPB	50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Sodium	PPB	NS	29,000	34,000	31,900	31,500	29,000	36,000	33,000	36,000	20,000	37,000	11,000	39,000	36,000	124,000	46,000	50,000	38,000	4,300	34,000	32,000	27,000	25,000	20,000
Zinc	PPB	5,000	<10	73.0	10.8	26.4	17.0	<10	15.8	27.0	56.0	13.0	<10	***32,000***	40	<10	<10	<10	<10	<10	20	<10	<10	<10	12
VOCs																									
Total VOCs	PPB		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Bold/Shaded results exceed the EPA Maximum Containment Level (MCL) for Drinking Water.
NS - No Standard
ND - None Detected
NT - Not Tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL POND

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Indicators			09/21/11	03/26/12	09/20/12	04/26/13	09/19/13	03/27/14
pH	units	6.5-8.5	7.60	***9.49***	***8.82***	7.70	***8.80***	7.00
Alkalinity	PPM	NS	95	120	80	84	64	80
Chloride	PPM	250	23	22	22	18	19	22
Total Dissolved Solids	PPM	500	140	110	140	140	150	210
Hardness	PPM	NS	110	110	88	110	86	120
Turbidity	NTU	15	1.6	3.1	0.8	1.2	1.7	1.1
Nitrate Nitrogen	PPM	10	0.02	0.29	0.02	0.13	0.3	0.16
Sulfate	PPM	250	<10	35	21	47	28	35
Specific Conductance	umhos/cm	NS	280	320	290	260	230	330
Chemical Oxygen Demand	PPM	NS	22	17	21	24	28	<10
Ammonia Nitrogen	PPM	NS	<0.2	0.2	<0.2	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<5
Arsenic	PPB	10	3	<2	2	<2	<2	<2
Barium	PPB	2,000	28	19	22	35	6	30
Beryllium	PPB	4	<0.5	<0.5	<0.5	<2	<2	<2
Cadmium	PPB	5	<0.5	<0.5	<0.5	<2	<2	<2
Calcium	PPB	NS	30,000	27,000	18,000	27,000	18,000	27,000
Chromium	PPB	100	<2	<2	<2	<2	<2	<2
Cobalt	PPB	NS	<2	<2	<2	<2	<2	<2
Copper	PPB	1,300	<2	<2	<2	22	<2	<2
Iron	PPB	300	90	170	80	120	110	<50
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	10,000	10,000	10,000	9,600	9,500	8,800
Manganese	PPB	50	***70***	***129***	***59***	***70***	***139***	13
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	<2	<2	<2	<2	<2	<2
Potassium	PPB	NS	5,200	5,100	4,900	4,600	3,800	3,900
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<1	<1	<1	<2	<2	<2
Sodium	PPB	NS	18,000	16,000	18,000	19,000	17,000	17,000
Thallium	PPB	2	<1	<1	<1	<1	<1	<1
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	16	13	18	15	<20	<20
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL POND

Analyte	Units	MCL	SA-1	SA-2	SA-3	SA-4	SA-5	SA-6
Volatile Organic Compounds Cont.			**09/21/11**	**03/26/12**	**09/20/12**	**04/26/13**	**09/19/13**	**03/27/14**
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/shaded results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
ND - None detected
NT - Not tested

R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL POND

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Indicators			**09/23/14**	**03/25/15**	**09/28/15**	**03/30/16**	**10/27/16**
pH	units	6.5-8.5	6.70	6.90	8.30	7.91	***8.91***
Alkalinity	PPM	NS	84	92	87	83	72
Chloride	PPM	250	20	21	23	22	21
Total Dissolved Solids	PPM	500	210	240	100	160	180
Hardness	PPM	NS	130	130	110	120	100
Turbidity	NTU	15	1.9	1.1	1.2	1.0	***57.0***
Nitrate Nitrogen	PPM	10	0.1	0.31	0.2	0.25	0.13
Sulfate	PPM	250	31	41	45	44	31
Specific Conductance	umhos/cm	NS	280	250	350	370	307
Chemical Oxygen Demand	PPM	NS	<10	<10	25	<10	31
Ammonia Nitrogen	PPM	NS	<0.2	0.3	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**					
Antimony	PPB	6	<5	<5	<5	<5	<5
Arsenic	PPB	10	<2	<2	<2	<2	<2
Barium	PPB	2,000	34	34	26	38	12
Beryllium	PPB	4	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	<2	<2
Calcium	PPB	NS	25,000	33,000	26,000	34,000	22,600
Chromium	PPB	100	<2	<2	<2	<2	<2
Cobalt	PPB	NS	<2	<2	<2	<2	<2
Copper	PPB	1,300	<2	<2	<2	<2	<2
Iron	PPB	300	60	50	80	<50	<50
Lead	PPB	15	<2	<2	<2	<2	<2
Magnesium	PPB	NS	8,800	9,600	11,000	12,000	10,900
Manganese	PPB	50	***130***	17	***54***	14	***148***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	<2	<2	<2	<2	<2
Potassium	PPB	NS	3,800	4,300	4,400	5,200	4,570
Selenium	PPB	50	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2
Sodium	PPB	NS	15,000	16,000	20,000	19,000	17,000
Thallium	PPB	2	<1	<1	<1	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2
Zinc	PPB	5,000	<20	<20	33	<20	<20
Volatile Organic Compounds	**Units**	**MCL**					
Acetone	PPB	NS	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
NS - No standard
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R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL POND

Analyte	Units	MCL	SA-7	SA-8	SA-9	SA-10	SA-11
Volatile Organic Compounds Cont.			**09/23/14**	**03/25/15**	**09/28/15**	**03/30/16**	**10/27/16**
Chloromethane	PPB	NS	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
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R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL POND

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Indicators			03/29/17	09/18/17	03/28/18	09/27/18	03/25/19	09/24/19
pH	units	6.5-8.5	***6.37***	***8.83***	7.60	8.02	7.06	***8.60***
Alkalinity	PPM	NS	98	80	88	100	96	120
Chloride	PPM	250	22	24	21	23	21	27
Total Dissolved Solids	PPM	500	360	150	190	220	160	190
Hardness	PPM	NS	140	150	120	120	130	130
Turbidity	NTU	15	<5	<5	<5	***67.0***	***29.1***	***32.0***
Nitrate Nitrogen	PPM	10	0.1	0.12	0.08	0.49	0.22	0.06
Sulfate	PPM	250	36	31	45	28	31	37
Specific Conductance	umhos/cm	NS	378	256	321	310	293	343
Chemical Oxygen Demand	PPM	NS	<10	22	26	48	21	22
Ammonia Nitrogen	PPM	NS	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Metals	**Units**	**MCL**						
Antimony	PPB	6	<5	<5	<5	<5	<5	<2
Arsenic	PPB	10	<2	<2	<2	<2	<2	<2
Barium	PPB	2,000	46	22	39	7	40	38
Beryllium	PPB	4	<2	<2	<2	<2	<2	<2
Cadmium	PPB	5	<2	<2	<2	<2	<2	<4
Calcium	PPB	NS	29,600	23,700	32,700	30,300	41,300	29,800
Chromium	PPB	100	<2	3	<2	<2	<2	<10
Cobalt	PPB	NS	<2	<2	<2	<2	<2	<10
Copper	PPB	1,300	<2	<2	<2	<2	2	<10
Iron	PPB	300	<50	104	59	70	***368***	96
Lead	PPB	15	<2	<2	<2	<2	<2	<2
Magnesium	PPB	NS	10,900	11,500	11,700	11,700	12,500	13,700
Manganese	PPB	50	13	33	17	30	***52***	***135***
Mercury	PPB	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	PPB	NS	<2	4	<2	<2	6	<10
Potassium	PPB	NS	4,930	4,840	5,370	4,470	4,950	5,330
Selenium	PPB	50	<5	<5	<5	<5	<5	<5
Silver	PPB	100	<2	<2	<2	<2	<2	<10
Sodium	PPB	NS	17,100	18,300	18,300	18,600	18,900	22,200
Thallium	PPB	2	<2	<2	<2	<2	<2	<2
Vanadium	PPB	NS	<2	<2	<2	<2	<2	<2
Zinc	PPB	5,000	<20	<20	<20	<20	<20	21
Volatile Organic Compounds	**Units**	**MCL**						
Acetone	PPB	NS	ND	ND	ND	ND	ND	ND
Acrylonitrile	PPB	NS	ND	ND	ND	ND	ND	ND
Benzene	PPB	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	100	ND	ND	ND	ND	ND	ND
Bromoform	PPB	100	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NS	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	100	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Choroform	PPB	NS	ND	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
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R.B. BAKER SONS RUBBLE LANDFILL
GROUNDWATER MONITORING TEST RESULTS
MONITORING WELL POND

Analyte	Units	MCL	SA-12	SA-13	SA-14	SA-15	SA-16	SA-17
Volatile Organic Compounds Cont.			**03/29/17**	**09/18/17**	**03/28/18**	**09/27/18**	**03/25/19**	**09/24/19**
Chloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	0.2	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NS	ND	ND	ND	ND	ND	ND
Dibromomethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	600	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	75	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	PPB	NS	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	7	ND	ND	ND	ND	ND	ND
cis-1,2,-Dichloroethene	PPB	70	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	100	ND	ND	ND	ND	ND	ND
Methylene chloride/Dichloromethane	PPB	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NS	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	700	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NS	ND	ND	ND	ND	ND	ND
Iodomethane	PPB	NS	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NS	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether	PPB	70	ND	ND	ND	ND	ND	ND
Styrene	PPB	100	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NS	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	NS	ND	ND	ND	ND	ND	ND
Toluene	PPB	1,000	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	5	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NS	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NS	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	2	ND	ND	ND	ND	ND	ND
Xylene (Total)	PPB	10,000	ND	ND	ND	ND	ND	ND
Total VOCs	PPB	-	ND	ND	ND	ND	ND	ND

Bold/italic results exceed the EPA maximum containment level (MCL) for drinking water.
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