RICHARDSON SMITH GARDNER
& ASSOCIATES
ENGINEERING & GEOLOGICAL
SERVICES

March 9, 2012

Ms. Jaclynne Drummond
NCDENR –Division of Waste Management
1646 Mail Service Center
Raleigh, NC 27699-1646

RE: **Corrective Action Parameter Reduction Request**
Halifax County Landfill – Permit No. 42-04
Littleton, North Carolina

Dear Ms. Drummond:

Richardson Smith Gardner and Associates, Inc. (RSG) on behalf of Halifax County, appreciates the opportunity to present this brief parameter reduction request to the Solid Waste Section (SWS).

Background

The Halifax County Landfill (North Carolina Permit # 42-04) is located at 921 Liles Road, Littleton, Halifax County, North Carolina situated southwest of Roanoke Rapids, North Carolina near Aurelian Springs. A CAP was prepared for the active C&D over closed, unlined MSW, in accordance with Rules 15A NCAC 13B .1636 & .1637 and submitted to the North Carolina Department of Environment and Natural Resources (NCDENR), Division of Waste Management (DWM), Solid Waste Section (SWS) in May 2009 and approved June 8, 2009.

The CAP prescribed Monitored Natural Attenuation (MNA) with an active landfill gas (LFG) blower assisted flare system. In accordance with SWS regulation regarding MNA baseline sampling and the CAP, wells MW-2A, MW-2AD, MW-3D, MW-3AS, MW-6D, MW-17, MW-18S and G-13 were analyzed for the SWS MNA indicator parameter list. MNA sampling has been conducted semi-annually since the August 2009 event. Monitoring locations are shown on **Figure 1**.

An approximately 350 foot long passive trench, used to vent LFG, is located between the landfill and MW-15R. Four passive vents are associated with this trench; two of these vents were planned to utilize the blower assisted solar flares, however, there is only enough gas to maintain a flare in one flare installed on the vent trench. The remaining flare was moved to a passive landfill gas vent located closer to MW-16a.

Contamination Distribution

The constituents of concern named in the CAP were benzene, methylene chloride, toluene, tetrachloriethene, trichloroethene and vinyl chloride. Heptachlor and alpha BHC were constituents of concern for MW-15R only. Additionally, conclusions regarding the re-evaluation of bis(2-ethylhexyl)phthalate will be presented in the CAER. No contamination is documented outside the 250' compliance boundary.

Ground water impact is limited to relatively small areas immediately upgradient and downgradient of the landfill. Downgradient wells MW-3AS, MW-3D, MW-2A, MW-2D, MW-6D and MW-17 indicate impact. Although MW-6S is not sampled, it is assumed to be impacted due to its location adjacent to MW-6D and the fact that it is screened in the same aquifer, but a higher elevation than MW-6D. These wells are located within 175 feet from the waste boundary.

The impacted upgradient area, near MW-15R and MW-16A is primarily due to landfill gas migration and phase transference. The area adjacent to MW-15R is approximately 210 feet from the waste mass and MW-16A is located 140 feet from the waste mass.

This parameter reduction request is associated with the MNA portion of the CAP and does not effect landfill gas remediation. The Corrective Action Evaluation Report (CAER) will comprehensively address the upgradient and downgradient plumes as well as the remedial action effectiveness proposed in the CAP.

Baseline Laboratory Analysis

Baseline sampling and MNA monitoring have been performed at the Halifax County landfill in accordance with the approved CAP. Six organic compounds were detected over the baseline sampling period in concentrations above the SWS and 2L Standards:

- 1,1 Dichloroethane (MW-2AD, MW-3D, MW-15R and MW-16A),
- 1,2 Dichloroethane (MW-15R),
- Benzene (MW-6D, MW-16A),
- Tetrachloroethene (MW-3D, MW-15R, MW-16A and MW-17),
- Trichloroethene (MW-2AD and MW-16A) and
- Vinyl Chloride (MW-2A, MW-2AD and MW-16A).

Methylene chloride over the past five years has either not been detected or was below the SWS limit and 2L Standard, except in MW-15R where it is oscillating around the 2L Standard. Toluene has not been detected since 2009.

RSG proposes to remove methylene chloride and toluene as constituents of concern due to their lack of detections.

Table 1 lists the last five years of sampling detections.

MNA Monitoring Network Modification Request

Baseline sampling for the MNA performance parameters list provided by the SWS was performed for over two years (consecutive semi-annual sampling events beginning October 2009) on wells designated in the CAP Sampling and Analysis Plan. Based on collected information regarding contaminant type and location the following changes in wells monitored for MNA parameters are proposed:

1. MW-2A, MW-6D, MW-17 and MW-18S have had no or low detections of organic constituents over the baseline period. They will be sampled for designated MNA parameters

annually. Detection/assessment monitoring will continue semi-annually.
2. MW-7D will be analyzed for Appendix I parameters, semi-annually, due to no recent detections and low historic detections.
3. MW-18D and G-13 will continue with their current sampling schedules.
4. Sampling will continue as approved in the CAP for MW-2AD, MW-3AS and MW-3D.

MNA sampling data is presented in **Table 2**.

MNA Parameter Modification Request

Currently, the following MNA parameters are analyzed semi-annually:

- Alkalinity
- Sulfate
- Sulfide
- TOC
- COD
- Hydrogen
- Volatile Fatty Acids
- Dissolved Methane
- BOD
- Carbon Dioxide
- Iron
- Chloride
- Nitrate
- Temperature
- ORP
- DO
- pH
- Specific Conductance
- Turbidity

Of these, RSG proposes to modify the frequency of analysis of the following parameters to occur every third year (both the spring and fall events):

- Hydrogen
- Volatile Fatty Acids
- Dissolved Methane
- Ethane and Ethane
- BOD
- Carbon Dioxide

Our rationale for these reductions is summarized below.

Hydrogen can indicate a redox environment; however, hydrogen can be unstable in nature and is expensive to monitor. Baseline sampling indicated the presence of hydrogen in generally stable quantities across the site; however, the results for the fall 2011 sampling event jumped up, and seem to be an outlier. Measurement of ORP can substitute for routine hydrogen analysis. Hydrogen will be analyzed for designated MNA wells semi-annually (both events) every third year.

Volatile Fatty Acids can provide insight into the microbial activities occurring in the subsurface and will sometimes serve as electron donors. In general, baseline sampling for VFA parameters indicated concentrations below the detection limit; reported detections were consistent within wells. A baseline has been established, as these are expensive to monitor, it is RSG's belief it is no longer cost effective to continue sampling for these parameters semi-annually. Volatile Fatty Acids will be analyzed for designated MNA wells semi-annually (both events) every third year.

Dissolved Methane levels recorded above the background indicate methanogenic conditions, representing the final stages of dechlorination. Methane is commonly associated with landfill gas, which is the target of the upgradient plume investigation. SWS guidance requires landfills to be monitored for landfill gas quarterly, providing additional coverage and data for this parameter. Dissolved methane will be analyzed in MNA designated wells semi-annually (both events) every third year.

Ethane and Ethene provide evidence of dechlorination's final stages. Baseline sampling generally indicated that these parameters were non-detectable (below the laboratory established method reporting limit) or at extremely low levels. They are not cost effective to monitor semi-annually in addition to multiple parameters providing similar information. Ethane and ethane will be analyzed in MNA designated wells semi-annually (both events) every third year.

BOD is used to determine how much dissolved oxygen is needed to break down organic material in the aquifer; however, it is not a precise quantitative test. General baseline sampling results were generally non-detect or below the laboratory established method reporting limit. BOD is a challenge to obtain, due to the short hold times, and the results are easier to achieve from other analysis. BOD will be analyzed for MNA designated wells semi-annually (both events) every third year.

Carbon Dioxide is used to estimate the carbon suspended in groundwater. Baseline sampling indicated large concentrations of dissolved carbon dioxide were present, but slowly reducing each event. It is not cost effective to monitor semi-annually in addition to parameters providing similar information. Carbon dioxide will be analyzed for MNA designated wells semi-annually (both sampling events) every third year.

Table 3 summarizes the proposed monitoring schedule for continuing Corrective Action.

Closing

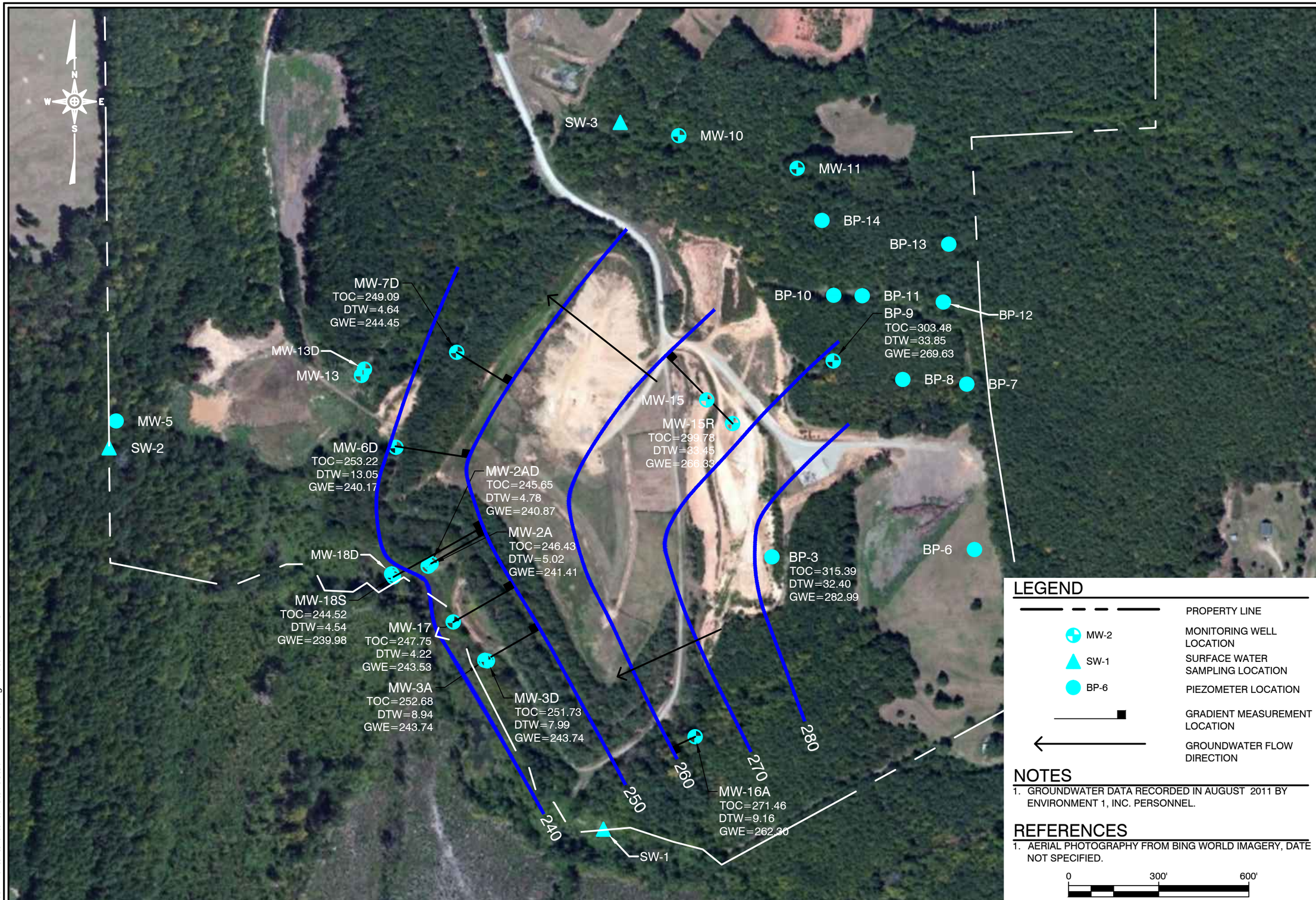
RSG, on behalf of Halifax County, appreciates the opportunity to submit this brief parameter reduction request to the Solid Waste Section. The CAER will be submitted following the spring 2012 sampling event. Please contact us at 919-828-0577 or by e-mail below with comments or questions regarding this plan.

Sincerely,

Richardson Smith Gardner and Associates, Inc.

Madeline German, P.G.
Project Geologist
Madeline@rsgengineers.com

Joan A. Smyth, P.G.
Senior Hydrogeologist
Joan@rsgengineers.com



LEGEND

	PROPERTY LINE
MW-2	MONITORING WELL LOCATION
SW-1	SURFACE WATER SAMPLING LOCATION
BP-6	PIEZOMETER LOCATION
	GRADIENT MEASUREMENT LOCATION
	GROUNDWATER FLOW DIRECTION

NOTES

1. GROUNDWATER DATA RECORDED IN AUGUST 2011 BY ENVIRONMENT 1, INC. PERSONNEL.

REFERENCES

1. AERIAL PHOTOGRAPHY FROM BING WORLD IMAGERY, DATE NOT SPECIFIED.

0 300' 600'

RICHARDSON SMITH GARDNER & ASSOCIATES
ENGINEERS (C-0287) SURVEYORS (C-0287)
14 N. Boylan Ave.
Raleigh, N.C. 27603
ph: 919-828-0577
fax: 919-828-3899
www.rsgengineers.com

FIGURE NO.	1
FILE NAME	HALI-B0167
SCALE:	AS SHOWN
PROJECT NO.	HALIFAX 8
CHECKED BY:	
DRAWN BY:	J.A.L.
DATE:	Jan. 2012

TITLE: HALIFAX COUNTY CLOSED MSW LANDFILL POTENTIOMETRIC SURFACE MAP FALL 2011

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ENGINEERING & GEOLOGICAL SERVICES

TABLE 1
Five Year Detection Summary

Date: 3/9/2012
By: MG

Well Name	Parameter Name	Concentration	Units	Sample Date	2L Standard	SWS Limit	Exceedance
MW-1	2-Butanone	1.8	ug/l	08/09/2007	4000	100	
MW-1	2-Butanone (Methyl ethyl ketone)	4.4	ug/l	08/19/2008	4000	100	
MW-1	Acetone	2.2	ug/l	02/19/2008	6000	100	
MW-1	Acetone	5.7	ug/l	08/19/2008	6000	100	
MW-1	Chloromethane	0.3	ug/l	08/19/2008	3	1	
MW-1	Toluene	0.4	ug/l	08/09/2007	600	1	
MW-1	Toluene	0.3	ug/l	02/19/2008	600	1	
MW-2A	**1,1-Dichloroethane**	**8.2**	**ug/l**	**02/14/2006**	**6**	**5**	**2.2**
MW-2A	**1,1-Dichloroethane**	**13.6**	**ug/l**	**02/14/2007**	**6**	**5**	**7.6**
MW-2A	1,1-Dichloroethane	4.4	ug/l	08/09/2007	6	5	
MW-2A	**1,1-Dichloroethane**	**16.8**	**ug/l**	**02/19/2008**	**6**	**5**	**10.8**
MW-2A	**1,1-Dichloroethane**	**15.5**	**ug/l**	**08/19/2008**	**6**	**5**	**9.5**
MW-2A	**1,1-Dichloroethane**	**6.5**	**ug/l**	**02/17/2009**	**6**	**5**	**0.5**
MW-2A	1,1-Dichloroethane	5.8	ug/l	08/19/2009	6	5	
MW-2A	**1,1-Dichloroethane**	**14.6**	**ug/l**	**02/17/2010**	**6**	**5**	**8.6**
MW-2A	1,1-Dichloroethane	5.1	ug/l	08/23/2010	6	5	
MW-2A	1,1-Dichloroethane	0.8	ug/l	08/25/2011	6	5	
MW-2A	1,1-Dichloroethene	0.2	ug/l	08/09/2007	7	5	
MW-2A	1,1-Dichloroethene	0.7	ug/l	02/19/2008	7	5	
MW-2A	1,1-Dichloroethene	0.4	ug/l	02/17/2009	7	5	
MW-2A	1,1-Dichloroethene	1.0	ug/l	02/17/2010	7	5	
MW-2A	1,1-Dichloroethene (-ethylene)	0.8	ug/l	08/19/2008	7	5	
MW-2A	1,1-Dichloroethene (-ethylene)	0.3	ug/l	08/19/2009	7	5	
MW-2A	1,2-Dichloroethane	0.3	ug/l	02/19/2008	0.4	1	
MW-2A	1,2-Dichloroethane	0.3	ug/l	08/19/2008	0.4	1	
MW-2A	1,2-Dichloroethane	0.4	ug/l	02/17/2010	0.4	1	
MW-2A	1,2-Dichloropropane	0.2	ug/l	02/19/2008	0.6	1	
MW-2A	1,4-Dichlorobenzene	0.6	ug/l	02/19/2008	6	1	
MW-2A	1,4-Dichlorobenzene	0.5	ug/l	08/19/2008	6	1	
MW-2A	1,4-Dichlorobenzene	1.1	ug/l	02/17/2010	6	1	
MW-2A	2-Butanone	2.1	ug/l	08/09/2007	4000	100	
MW-2A	2-Butanone	0.9	ug/l	02/17/2009	4000	100	
MW-2A	2-Butanone (Methyl ethyl ketone)	3.5	ug/l	08/19/2008	4000	100	
MW-2A	Acetone	1.4	ug/l	08/09/2007	6000	100	
MW-2A	Acetone	3.2	ug/l	02/19/2008	6000	100	
MW-2A	Acetone	5.4	ug/l	08/19/2008	6000	100	
MW-2A	Acetone	1.3	ug/l	08/19/2009	6000	100	
MW-2A	Benzene	0.5	ug/l	02/19/2008	1	1	
MW-2A	Benzene	0.6	ug/l	08/19/2008	1	1	
MW-2A	Benzene	0.3	ug/l	02/17/2009	1	1	
MW-2A	Benzene	0.3	ug/l	08/19/2009	1	1	
MW-2A	Benzene	0.8	ug/l	02/17/2010	1	1	
MW-2A	Chlorobenzene	0.2	ug/l	08/09/2007	50	3	
MW-2A	Chlorobenzene	1.1	ug/l	02/19/2008	50	3	
MW-2A	Chlorobenzene	1.6	ug/l	08/19/2008	50	3	
MW-2A	Chlorobenzene	1.0	ug/l	02/17/2009	50	3	
MW-2A	Chlorobenzene	1.0	ug/l	08/19/2009	50	3	
MW-2A	Chlorobenzene	2.5	ug/l	02/17/2010	50	3	
MW-2A	Chloroethane	1.1	ug/l	02/19/2008	3000	10	
MW-2A	Chloroethane	0.7	ug/l	02/17/2010	3000	10	

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Well Name	Parameter Name	Concentration	Units	Sample Date	2L Standard	SWS Limit	Exceedance
MW-2A	Chloromethane	0.3	ug/l	08/19/2008	3	1	
MW-2A	Cis-1,2-Dichloroethene	7.6	ug/l	02/14/2006	70	5	
MW-2A	Cis-1,2-Dichloroethene	11.8	ug/l	02/14/2007	70	5	
MW-2A	Cis-1,2-Dichloroethene	2.7	ug/l	08/09/2007	70	5	
MW-2A	Cis-1,2-Dichloroethene	15.8	ug/l	02/19/2008	70	5	
MW-2A	Cis-1,2-Dichloroethene	11.9	ug/l	08/19/2008	70	5	
MW-2A	Cis-1,2-Dichloroethene	6.9	ug/l	02/17/2009	70	5	
MW-2A	Cis-1,2-Dichloroethene	4.7	ug/l	08/19/2009	70	5	
MW-2A	Cis-1,2-Dichloroethene	18.7	ug/l	02/17/2010	70	5	
MW-2A	cis-1,2-Dichloroethene (-ethylene)	0.3	ug/l	08/25/2011	70	5	
MW-2A	Dichlorodifluoromethane	0.3	ug/l	08/09/2007	1000	5	
MW-2A	Dichlorodifluoromethane	1.0	ug/l	02/19/2008	1000	5	
MW-2A	Dichlorodifluoromethane	1.0	ug/l	08/19/2008	1000	5	
MW-2A	Dichlorodifluoromethane	0.5	ug/l	02/17/2009	1000	5	
MW-2A	Dichlorodifluoromethane	0.5	ug/l	08/19/2009	1000	5	
MW-2A	Dichlorodifluoromethane	0.9	ug/l	02/17/2010	1000	5	
MW-2A	Mercury	0.07	ug/l	02/19/2008	1	0.2	
MW-2A	Mercury	0.11	ug/l	08/19/2008	1	0.2	
MW-2A	Mercury	0.09	ug/l	02/17/2009	1	0.2	
MW-2A	Mercury	0.06	ug/l	08/19/2009	1	0.2	
MW-2A	Tetrachloroethene	0.5	ug/l	02/19/2008	0.7	1	
MW-2A	Tetrachloroethene	0.4	ug/l	02/17/2010	0.7	1	
MW-2A	Toluene	0.4	ug/l	08/09/2007	600	1	
MW-2A	Toluene	0.3	ug/l	02/19/2008	600	1	
MW-2A	trans-1,2-Dichloroethene	0.2	ug/l	02/19/2008	100	5	
MW-2A	trans-1,2-Dichloroethene	0.2	ug/l	08/19/2008	100	5	
MW-2A	**Trichloroethene**	**5.1**	**ug/l**	**02/14/2007**	**3**	**1**	**2.1**
MW-2A	Trichloroethene	0.6	ug/l	08/09/2007	3	1	
MW-2A	**Trichloroethene**	**5.6**	**ug/l**	**02/19/2008**	**3**	**1**	**2.6**
MW-2A	**Trichloroethene**	**4.0**	**ug/l**	**08/19/2008**	**3**	**1**	**1**
MW-2A	Trichloroethene	2.6	ug/l	02/17/2009	3	1	
MW-2A	Trichloroethene	2.0	ug/l	08/19/2009	3	1	
MW-2A	**Trichloroethene**	**7.3**	**ug/l**	**02/17/2010**	**3**	**1**	**4.3**
MW-2A	**Vinyl chloride**	**1.8**	**ug/l**	**08/09/2007**	**0.03**	**1**	**1.77**
MW-2A	**Vinyl chloride**	**3.3**	**ug/l**	**02/19/2008**	**0.03**	**1**	**3.27**
MW-2A	**Vinyl chloride**	**8.0**	**ug/l**	**08/19/2008**	**0.03**	**1**	**7.97**
MW-2A	**Vinyl chloride**	**3.3**	**ug/l**	**02/17/2009**	**0.03**	**1**	**3.27**
MW-2A	**Vinyl chloride**	**4.9**	**ug/l**	**08/19/2009**	**0.03**	**1**	**4.87**
MW-2A	**Vinyl chloride**	**5.2**	**ug/l**	**02/17/2010**	**0.03**	**1**	**5.17**
MW-2A	**Vinyl chloride**	**5.4**	**ug/l**	**08/23/2010**	**0.03**	**1**	**5.37**
MW-2A	**Vinyl chloride**	**3.6**	**ug/l**	**02/21/2011**	**0.03**	**1**	**3.57**
MW-2A	**Vinyl chloride**	**1.2**	**ug/l**	**08/25/2011**	**0.03**	**1**	**1.17**

MW-2AD	**1,1-Dichloroethane**	**27.2**	**ug/l**	**02/14/2006**	**6**	**5**	**21.2**
MW-2AD	**1,1-Dichloroethane**	**26.6**	**ug/l**	**08/22/2006**	**6**	**5**	**20.6**
MW-2AD	**1,1-Dichloroethane**	**31.4**	**ug/l**	**02/14/2007**	**6**	**5**	**25.4**
MW-2AD	**1,1-Dichloroethane**	**36.8**	**ug/l**	**08/09/2007**	**6**	**5**	**30.8**
MW-2AD	**1,1-Dichloroethane**	**29.0**	**ug/l**	**02/19/2008**	**6**	**5**	**23**
MW-2AD	**1,1-Dichloroethane**	**31.4**	**ug/l**	**08/19/2008**	**6**	**5**	**25.4**
MW-2AD	**1,1-Dichloroethane**	**28.4**	**ug/l**	**02/17/2009**	**6**	**5**	**22.4**
MW-2AD	**1,1-Dichloroethane**	**25.5**	**ug/l**	**08/19/2009**	**6**	**5**	**19.5**

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Five Year Detection Summary

Date: 3/9/2012
By: MG

Well Name	Parameter Name	Concentration	Units	Sample Date	2L Standard	SWS Limit	Exceedance
MW-2AD	**1,1-Dichloroethane**	**21.8**	**ug/l**	**02/17/2010**	**6**	**5**	**15.8**
MW-2AD	**1,1-Dichloroethane**	**25.1**	**ug/l**	**08/23/2010**	**6**	**5**	**19.1**
MW-2AD	**1,1-Dichloroethane**	**17.8**	**ug/l**	**02/21/2011**	**6**	**5**	**11.8**
MW-2AD	**1,1-Dichloroethane**	**6.6**	**ug/l**	**08/25/2011**	**6**	**5**	**0.6**
MW-2AD	1,1-Dichloroethene	0.4	ug/l	08/09/2007	7	5	
MW-2AD	1,1-Dichloroethene	0.2	ug/l	02/19/2008	7	5	
MW-2AD	1,1-Dichloroethene	0.4	ug/l	02/17/2009	7	5	
MW-2AD	1,1-Dichloroethene	0.2	ug/l	02/17/2010	7	5	
MW-2AD	1,1-Dichloroethene (-ethylene)	0.2	ug/l	08/19/2008	7	5	
MW-2AD	1,1-Dichloroethene (-ethylene)	0.5	ug/l	08/19/2009	7	5	
MW-2AD	1,1-Dichloroethene (-ethylene)	0.2	ug/l	08/25/2011	7	5	
MW-2AD	1,2-Dichloroethane	0.4	ug/l	08/09/2007	0.4	1	
MW-2AD	1,2-Dichloroethane	0.2	ug/l	02/19/2008	0.4	1	
MW-2AD	1,2-Dichloroethane	0.2	ug/l	08/19/2008	0.4	1	
MW-2AD	1,2-Dichloroethane	0.3	ug/l	02/17/2009	0.4	1	
MW-2AD	1,2-Dichloroethane	0.4	ug/l	08/19/2009	0.4	1	
MW-2AD	1,2-Dichloropropane	0.2	ug/l	08/09/2007	0.6	1	
MW-2AD	1,2-Dichloropropane	0.2	ug/l	02/19/2008	0.6	1	
MW-2AD	1,2-Dichloropropane	0.2	ug/l	02/17/2009	0.6	1	
MW-2AD	1,4-Dichlorobenzene	0.7	ug/l	08/09/2007	6	1	
MW-2AD	1,4-Dichlorobenzene	0.7	ug/l	02/19/2008	6	1	
MW-2AD	1,4-Dichlorobenzene	0.7	ug/l	08/19/2008	6	1	
MW-2AD	1,4-Dichlorobenzene	1.1	ug/l	02/17/2009	6	1	
MW-2AD	1,4-Dichlorobenzene	1.3	ug/l	08/19/2009	6	1	
MW-2AD	1,4-Dichlorobenzene	1.3	ug/l	02/17/2010	6	1	
MW-2AD	1,4-Dichlorobenzene	1.4	ug/l	08/23/2010	6	1	
MW-2AD	1,4-Dichlorobenzene	1.3	ug/l	02/21/2011	6	1	
MW-2AD	1,4-Dichlorobenzene	0.4	ug/l	08/25/2011	6	1	
MW-2AD	2-Butanone	1.7	ug/l	08/09/2007	4000	100	
MW-2AD	2-Butanone (Methyl ethyl ketone)	4.0	ug/l	08/19/2008	4000	100	
MW-2AD	2-Butanone (Methyl ethyl ketone)	2.1	ug/l	08/19/2009	4000	100	
MW-2AD	Acetone	5.3	ug/l	02/19/2008	6000	100	
MW-2AD	Acetone	5.6	ug/l	08/19/2008	6000	100	
MW-2AD	Acetone	1.8	ug/l	08/19/2009	6000	100	
MW-2AD	Benzene	0.9	ug/l	08/09/2007	1	1	
MW-2AD	**Benzene**	**1.3**	**ug/l**	**02/19/2008**	**1**	**1**	**0.3**
MW-2AD	**Benzene**	**1.2**	**ug/l**	**08/19/2008**	**1**	**1**	**0.2**
MW-2AD	Benzene	0.7	ug/l	02/17/2009	1	1	
MW-2AD	Benzene	0.8	ug/l	08/19/2009	1	1	
MW-2AD	**Benzene**	**1.4**	**ug/l**	**02/17/2010**	**1**	**1**	**0.4**
MW-2AD	**Bis-(2-Ethylhexyl) Phthalate**	**13.3**	**ug/l**	**02/17/2010**	**3**	**15**	**10.3**
MW-2AD	Chlorobenzene	1.1	ug/l	08/09/2007	50	3	
MW-2AD	Chlorobenzene	0.9	ug/l	02/19/2008	50	3	
MW-2AD	Chlorobenzene	0.9	ug/l	08/19/2008	50	3	
MW-2AD	Chlorobenzene	1.2	ug/l	02/17/2009	50	3	
MW-2AD	Chlorobenzene	1.5	ug/l	08/19/2009	50	3	
MW-2AD	Chlorobenzene	1.6	ug/l	02/17/2010	50	3	
MW-2AD	Chlorobenzene	1.4	ug/l	08/25/2011	50	3	
MW-2AD	Chloroethane	2.5	ug/l	08/09/2007	3000	10	
MW-2AD	Chloroethane	2.5	ug/l	02/19/2008	3000	10	
MW-2AD	Chloroethane	2.4	ug/l	08/19/2008	3000	10	

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MW-2AD	Chloroethane	2.2	ug/l	02/17/2009	3000	10	
MW-2AD	Chloroethane	1.9	ug/l	08/19/2009	3000	10	
MW-2AD	Chloroethane	1.7	ug/l	02/17/2010	3000	10	
MW-2AD	Chloroethane	0.7	ug/l	08/25/2011	3000	10	
MW-2AD	Chloromethane	0.3	ug/l	02/19/2008	3	1	
MW-2AD	Chloromethane	0.3	ug/l	08/19/2008	3	1	
MW-2AD	Cis-1,2-Dichloroethene	11.0	ug/l	02/14/2006	70	5	
MW-2AD	Cis-1,2-Dichloroethene	16.0	ug/l	08/22/2006	70	5	
MW-2AD	Cis-1,2-Dichloroethene	10.2	ug/l	02/14/2007	70	5	
MW-2AD	Cis-1,2-Dichloroethene	22.9	ug/l	08/09/2007	70	5	
MW-2AD	Cis-1,2-Dichloroethene	11.0	ug/l	02/19/2008	70	5	
MW-2AD	Cis-1,2-Dichloroethene	12.6	ug/l	08/19/2008	70	5	
MW-2AD	Cis-1,2-Dichloroethene	19.9	ug/l	02/17/2009	70	5	
MW-2AD	Cis-1,2-Dichloroethene	22.2	ug/l	08/19/2009	70	5	
MW-2AD	Cis-1,2-Dichloroethene	12.7	ug/l	02/17/2010	70	5	
MW-2AD	Cis-1,2-Dichloroethene	23.8	ug/l	08/23/2010	70	5	
MW-2AD	Cis-1,2-Dichloroethene	21.7	ug/l	02/21/2011	70	5	
MW-2AD	cis-1,2-Dichloroethene (-ethylene)	9.4	ug/l	08/25/2011	70	5	
MW-2AD	Delta-BHC	0.0	ug/l	02/19/2008	NE	0.05	
MW-2AD	Dichlorodifluoromethane	0.3	ug/l	08/09/2007	1000	5	
MW-2AD	Dichlorodifluoromethane	1.0	ug/l	02/19/2008	1000	5	
MW-2AD	Dichlorodifluoromethane	0.5	ug/l	08/19/2008	1000	5	
MW-2AD	Dichlorodifluoromethane	0.3	ug/l	02/17/2009	1000	5	
MW-2AD	Dichlorodifluoromethane	0.2	ug/l	08/19/2009	1000	5	
MW-2AD	Dichlorodifluoromethane	0.9	ug/l	02/17/2010	1000	5	
MW-2AD	**Gamma-BHC (Lindane)**	**0.073**	**ug/l**	**02/21/2011**	**0.03**	**0.05**	**0.043**
MW-2AD	Mercury	0.06	ug/l	08/09/2007	1	0.2	
MW-2AD	Mercury	0.04	ug/l	02/19/2008	1	0.2	
MW-2AD	Mercury	0.13	ug/l	08/19/2008	1	0.2	
MW-2AD	Mercury	0.07	ug/l	02/17/2009	1	0.2	
MW-2AD	Mercury	0.11	ug/l	08/19/2009	1	0.2	
MW-2AD	Methylene Chloride	0.2	ug/l	08/09/2007	5	1	
MW-2AD	Methylene Chloride	0.3	ug/l	08/19/2008	5	1	
MW-2AD	Methylene Chloride	0.2	ug/l	02/17/2009	5	1	
MW-2AD	Methylene Chloride	0.2	ug/l	08/19/2009	5	1	
MW-2AD	Tetrachloroethene	0.3	ug/l	02/19/2008	0.7	1	
MW-2AD	Toluene	0.5	ug/l	08/09/2007	600	1	
MW-2AD	Toluene	0.3	ug/l	02/19/2008	600	1	
MW-2AD	trans-1,2-Dichloroethene	0.3	ug/l	08/09/2007	100	5	
MW-2AD	trans-1,2-Dichloroethene	0.2	ug/l	02/19/2008	100	5	
MW-2AD	trans-1,2-Dichloroethene	0.2	ug/l	08/19/2008	100	5	
MW-2AD	trans-1,2-Dichloroethene	0.2	ug/l	02/17/2009	100	5	
MW-2AD	trans-1,2-Dichloroethene	0.2	ug/l	08/19/2009	100	5	
MW-2AD	**Trichloroethene**	**5.4**	**ug/l**	**08/09/2007**	**3**	**1**	**2.4**
MW-2AD	**Trichloroethene**	**3.2**	**ug/l**	**02/19/2008**	**3**	**1**	**0.2**
MW-2AD	**Trichloroethene**	**3.5**	**ug/l**	**08/19/2008**	**3**	**1**	**0.5**
MW-2AD	**Trichloroethene**	**4.1**	**ug/l**	**02/17/2009**	**3**	**1**	**1.1**
MW-2AD	**Trichloroethene**	**4.2**	**ug/l**	**08/19/2009**	**3**	**1**	**1.2**
MW-2AD	**Trichloroethene**	**3.4**	**ug/l**	**02/17/2010**	**3**	**1**	**0.4**
MW-2AD	**Trichloroethene**	**4.1**	**ug/l**	**08/23/2010**	**3**	**1**	**1.1**
MW-2AD	**Trichloroethene**	**3.4**	**ug/l**	**02/21/2011**	**3**	**1**	**0.4**

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MW-2AD	Trichloroethene (-ethylene)	1.3	ug/l	08/25/2011	3	1	
MW-2AD	**Vinyl chloride**	**7.0**	**ug/l**	**02/14/2007**	**0.03**	**1**	**6.97**
MW-2AD	**Vinyl chloride**	**5.8**	**ug/l**	**08/09/2007**	**0.03**	**1**	**5.77**
MW-2AD	**Vinyl chloride**	**4.1**	**ug/l**	**02/19/2008**	**0.03**	**1**	**4.07**
MW-2AD	**Vinyl chloride**	**5.5**	**ug/l**	**08/19/2008**	**0.03**	**1**	**5.47**
MW-2AD	**Vinyl chloride**	**5.2**	**ug/l**	**02/17/2009**	**0.03**	**1**	**5.17**
MW-2AD	**Vinyl chloride**	**4.3**	**ug/l**	**08/19/2009**	**0.03**	**1**	**4.27**
MW-2AD	**Vinyl chloride**	**5.0**	**ug/l**	**02/17/2010**	**0.03**	**1**	**4.97**
MW-2AD	**Vinyl chloride**	**5.0**	**ug/l**	**08/23/2010**	**0.03**	**1**	**4.97**
MW-2AD	**Vinyl chloride**	**3.3**	**ug/l**	**02/21/2011**	**0.03**	**1**	**3.27**
MW-2AD	**Vinyl chloride**	**2.1**	**ug/l**	**08/25/2011**	**0.03**	**1**	**2.07**
MW-3A	**1,1-Dichloroethane**	**8.4**	**ug/l**	**02/14/2006**	**6**	**5**	**2.4**
MW-3A	**1,1-Dichloroethane**	**8.3**	**ug/l**	**08/22/2006**	**6**	**5**	**2.3**
MW-3A	**1,1-Dichloroethane**	**6.6**	**ug/l**	**02/14/2007**	**6**	**5**	**0.6**
MW-3A	1,1-Dichloroethane	5.6	ug/l	08/09/2007	6	5	
MW-3A	**1,1-Dichloroethane**	**7.1**	**ug/l**	**02/19/2008**	**6**	**5**	**1.1**
MW-3A	**1,1-Dichloroethane**	**6.2**	**ug/l**	**08/19/2008**	**6**	**5**	**0.2**
MW-3A	1,1-Dichloroethane	5.1	ug/l	02/17/2009	6	5	
MW-3A	1,1-Dichloroethane	3.9	ug/l	08/19/2009	6	5	
MW-3A	1,1-Dichloroethane	3.5	ug/l	02/17/2010	6	5	
MW-3A	1,1-Dichloroethene	0.3	ug/l	08/09/2007	7	5	
MW-3A	1,1-Dichloroethene	0.2	ug/l	02/19/2008	7	5	
MW-3A	1,1-Dichloroethene (-ethylene)	0.2	ug/l	08/19/2008	7	5	
MW-3A	1,2-Dichloroethane	0.2	ug/l	02/19/2008	0.4	1	
MW-3A	1,2-Dichloroethane	0.2	ug/l	08/19/2008	0.4	1	
MW-3A	1,2-Dichloroethane	0.2	ug/l	02/17/2009	0.4	1	
MW-3A	1,2-Dichloropropane	0.3	ug/l	08/09/2007	0.6	1	
MW-3A	**1,2-Dichloropropane**	**1.1**	**ug/l**	**02/19/2008**	**0.6**	**1**	**0.5**
MW-3A	**1,2-Dichloropropane**	**0.8**	**ug/l**	**08/19/2008**	**0.6**	**1**	**0.2**
MW-3A	**1,2-Dichloropropane**	**1.0**	**ug/l**	**02/17/2009**	**0.6**	**1**	**0.4**
MW-3A	**1,2-Dichloropropane**	**0.8**	**ug/l**	**08/19/2009**	**0.6**	**1**	**0.2**
MW-3A	**1,2-Dichloropropane**	**0.7**	**ug/l**	**02/17/2010**	**0.6**	**1**	**0.1**
MW-3A	1,4-Dichlorobenzene	0.4	ug/l	08/09/2007	6	1	
MW-3A	**1,4-Dichlorobenzene**	**7.3**	**ug/l**	**02/19/2008**	**6**	**1**	**1.3**
MW-3A	1,4-Dichlorobenzene	2.6	ug/l	08/19/2008	6	1	
MW-3A	1,4-Dichlorobenzene	3.6	ug/l	02/17/2009	6	1	
MW-3A	1,4-Dichlorobenzene	3.2	ug/l	08/19/2009	6	1	
MW-3A	1,4-Dichlorobenzene	2.6	ug/l	02/17/2010	6	1	
MW-3A	1,4-Dichlorobenzene	1.8	ug/l	08/23/2010	6	1	
MW-3A	2-Butanone	2.2	ug/l	08/09/2007	4000	100	
MW-3A	2-Butanone (Methyl ethyl ketone)	4.6	ug/l	08/19/2008	4000	100	
MW-3A	2-Butanone (Methyl ethyl ketone)	1.8	ug/l	08/19/2009	4000	100	
MW-3A	Acetone	1.4	ug/l	08/09/2007	6000	100	
MW-3A	Acetone	2.7	ug/l	02/19/2008	6000	100	
MW-3A	Acetone	6.6	ug/l	08/19/2008	6000	100	
MW-3A	Acetone	1.5	ug/l	08/19/2009	6000	100	
MW-3A	Benzene	0.8	ug/l	08/09/2007	1	1	
MW-3A	**Benzene**	**2.6**	**ug/l**	**02/19/2008**	**1**	**1**	**1.6**
MW-3A	**Benzene**	**2.1**	**ug/l**	**08/19/2008**	**1**	**1**	**1.1**
MW-3A	**Benzene**	**3.1**	**ug/l**	**02/17/2009**	**1**	**1**	**2.1**

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MW-3A	**Benzene**	**2.6**	**ug/l**	**08/19/2009**	**1**	**1**	**1.6**
MW-3A	**Benzene**	**2.9**	**ug/l**	**02/17/2010**	**1**	**1**	**1.9**
MW-3A	**Benzene**	**1.7**	**ug/l**	**08/23/2010**	**1**	**1**	**0.7**
MW-3A	Beta-BHC	0.032	ug/l	02/19/2008	NE	0.05	
MW-3A	Chlorobenzene	5.6	ug/l	02/14/2007	50	3	
MW-3A	Chlorobenzene	0.6	ug/l	08/09/2007	50	3	
MW-3A	Chlorobenzene	3.7	ug/l	02/19/2008	50	3	
MW-3A	Chlorobenzene	4.3	ug/l	08/19/2008	50	3	
MW-3A	Chlorobenzene	6.3	ug/l	02/17/2009	50	3	
MW-3A	Chlorobenzene	5.9	ug/l	08/19/2009	50	3	
MW-3A	Chlorobenzene	7.6	ug/l	02/17/2010	50	3	
MW-3A	Chlorobenzene	3.8	ug/l	08/23/2010	50	3	
MW-3A	Chloroethane	0.7	ug/l	08/09/2007	3000	10	
MW-3A	Chloroethane	1.5	ug/l	02/19/2008	3000	10	
MW-3A	Chloroethane	1.4	ug/l	02/17/2009	3000	10	
MW-3A	Chloroethane	1.4	ug/l	02/17/2010	3000	10	
MW-3A	Chloromethane	0.2	ug/l	08/19/2008	3	1	
MW-3A	Cis-1,2-Dichloroethene	17.1	ug/l	02/14/2006	70	5	
MW-3A	Cis-1,2-Dichloroethene	5.8	ug/l	08/22/2006	70	5	
MW-3A	Cis-1,2-Dichloroethene	8.1	ug/l	08/09/2007	70	5	
MW-3A	Cis-1,2-Dichloroethene	10.8	ug/l	02/19/2008	70	5	
MW-3A	Cis-1,2-Dichloroethene	5.0	ug/l	08/19/2008	70	5	
MW-3A	Cis-1,2-Dichloroethene	0.5	ug/l	02/17/2009	70	5	
MW-3A	Cis-1,2-Dichloroethene	0.9	ug/l	08/19/2009	70	5	
MW-3A	Cis-1,2-Dichloroethene	0.9	ug/l	02/17/2010	70	5	
MW-3A	Dichlorodifluoromethane	0.2	ug/l	08/09/2007	1000	5	
MW-3A	Dichlorodifluoromethane	0.2	ug/l	08/19/2008	1000	5	
MW-3A	Dichlorodifluoromethane	0.2	ug/l	08/19/2009	1000	5	
MW-3A	Mercury	0.04	ug/l	08/09/2007	1	0.2	
MW-3A	Mercury	0.08	ug/l	08/19/2008	1	0.2	
MW-3A	Mercury	0.03	ug/l	02/17/2009	1	0.2	
MW-3A	Mercury	0.05	ug/l	08/19/2009	1	0.2	
MW-3A	Methylene Chloride	0.2	ug/l	08/19/2008	5	1	
MW-3A	Tetrachloroethene	0.4	ug/l	08/09/2007	0.7	1	
MW-3A	Toluene	0.5	ug/l	08/09/2007	600	1	
MW-3A	Toluene	0.3	ug/l	02/19/2008	600	1	
MW-3A	Toluene	0.2	ug/l	08/19/2008	600	1	
MW-3A	Toluene	0.4	ug/l	02/17/2009	600	1	
MW-3A	Toluene	0.5	ug/l	08/19/2009	600	1	
MW-3A	Toluene	0.3	ug/l	02/17/2010	600	1	
MW-3A	trans-1,2-Dichloroethene	0.4	ug/l	02/19/2008	100	5	
MW-3A	trans-1,2-Dichloroethene	0.2	ug/l	08/19/2008	100	5	
MW-3A	Trichloroethene	2.0	ug/l	08/09/2007	3	1	
MW-3A	Trichloroethene	1.9	ug/l	02/19/2008	3	1	
MW-3A	Trichloroethene	1.0	ug/l	08/19/2008	3	1	
MW-3A	**Vinyl chloride**	**5.1**	**ug/l**	**02/14/2007**	**0.03**	**1**	**5.07**
MW-3A	**Vinyl chloride**	**4.7**	**ug/l**	**08/09/2007**	**0.03**	**1**	**4.67**
MW-3A	**Vinyl chloride**	**3.3**	**ug/l**	**02/19/2008**	**0.03**	**1**	**3.27**
MW-3A	**Vinyl chloride**	**3.9**	**ug/l**	**08/19/2008**	**0.03**	**1**	**3.87**
MW-3A	**Vinyl chloride**	**1.3**	**ug/l**	**02/17/2009**	**0.03**	**1**	**1.27**
MW-3A	**Vinyl chloride**	**1.0**	**ug/l**	**08/19/2009**	**0.03**	**1**	**0.97**

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MW-3A	**Vinyl chloride**	**2.1**	**ug/l**	**02/17/2010**	**0.03**	**1**	**2.07**
MW-3A	**Vinyl chloride**	**1.6**	**ug/l**	**08/23/2010**	**0.03**	**1**	**1.57**
MW-3AS	**1,1-Dichloroethane**	**6.4**	**ug/l**	**08/25/2011**	**6**	**5**	**0.4**
MW-3AS	1,1-Dichloroethene (-ethylene)	0.3	ug/l	08/25/2011	7	5	
MW-3AS	1,2-Dichloropropane	0.3	ug/l	08/25/2011	0.6	1	
MW-3AS	1,4-Dichlorobenzene	2.1	ug/l	02/21/2011	6	1	
MW-3AS	1,4-Dichlorobenzene	0.5	ug/l	08/25/2011	6	1	
MW-3AS	**Benzene**	**2.7**	**ug/l**	**02/21/2011**	**1**	**1**	**1.7**
MW-3AS	Benzene	0.6	ug/l	08/25/2011	1	1	
MW-3AS	Chlorobenzene	5.3	ug/l	02/21/2011	50	3	
MW-3AS	Chlorobenzene	0.6	ug/l	08/25/2011	50	3	
MW-3AS	Chloroethane	0.6	ug/l	08/25/2011	3000	10	
MW-3AS	cis-1,2-Dichloroethene (-ethylene)	9.3	ug/l	08/25/2011	70	5	
MW-3AS	Trichloroethene (-ethylene)	1.9	ug/l	08/25/2011	3	1	
MW-3AS	**Vinyl chloride**	**1.3**	**ug/l**	**02/21/2011**	**0.03**	**1**	**1.27**
MW-3AS	**Vinyl chloride**	**2.1**	**ug/l**	**08/25/2011**	**0.03**	**1**	**2.07**
MW-3D	1,1-Dichloroethane	4.3	ug/l	08/09/2007	6	5	
MW-3D	1,1-Dichloroethane	5.0	ug/l	02/19/2008	6	5	
MW-3D	**1,1-Dichloroethane**	**6.9**	**ug/l**	**08/19/2008**	**6**	**5**	**0.9**
MW-3D	**1,1-Dichloroethane**	**6.7**	**ug/l**	**02/17/2009**	**6**	**5**	**0.7**
MW-3D	**1,1-Dichloroethane**	**6.5**	**ug/l**	**08/19/2009**	**6**	**5**	**0.5**
MW-3D	**1,1-Dichloroethane**	**6.5**	**ug/l**	**02/17/2010**	**6**	**5**	**0.5**
MW-3D	**1,1-Dichloroethane**	**7.5**	**ug/l**	**08/23/2010**	**6**	**5**	**1.5**
MW-3D	**1,1-Dichloroethane**	**9.0**	**ug/l**	**02/21/2011**	**6**	**5**	**3**
MW-3D	**1,1-Dichloroethane**	**7.6**	**ug/l**	**08/25/2011**	**6**	**5**	**1.6**
MW-3D	1,1-Dichloroethene	0.3	ug/l	08/09/2007	7	5	
MW-3D	1,1-Dichloroethene	0.4	ug/l	02/19/2008	7	5	
MW-3D	1,1-Dichloroethene	0.4	ug/l	02/17/2009	7	5	
MW-3D	1,1-Dichloroethene	0.4	ug/l	02/17/2010	7	5	
MW-3D	1,1-Dichloroethene (-ethylene)	0.4	ug/l	08/19/2008	7	5	
MW-3D	1,1-Dichloroethene (-ethylene)	0.4	ug/l	08/19/2009	7	5	
MW-3D	1,1-Dichloroethene (-ethylene)	0.2	ug/l	08/25/2011	7	5	
MW-3D	**1,2-Dichloropropane**	**2.1**	**ug/l**	**02/19/2008**	**0.6**	**1**	**1.5**
MW-3D	2-Butanone	1.0	ug/l	08/09/2007	4000	100	
MW-3D	2-Butanone (Methyl ethyl ketone)	2.7	ug/l	08/19/2008	4000	100	
MW-3D	2-Butanone (Methyl ethyl ketone)	1.2	ug/l	08/19/2009	4000	100	
MW-3D	Acetone	2.2	ug/l	02/19/2008	6000	100	
MW-3D	Acetone	3.9	ug/l	08/19/2008	6000	100	
MW-3D	Alpha-BHC	0.042	ug/l	02/19/2008	NE	0.05	
MW-3D	Benzene	0.2	ug/l	08/09/2007	1	1	
MW-3D	Benzene	0.2	ug/l	02/19/2008	1	1	
MW-3D	Benzene	0.3	ug/l	08/19/2008	1	1	
MW-3D	Benzene	0.3	ug/l	02/17/2009	1	1	
MW-3D	Benzene	0.3	ug/l	08/19/2009	1	1	
MW-3D	Benzene	0.3	ug/l	02/17/2010	1	1	
MW-3D	Benzene	0.4	ug/l	08/25/2011	1	1	
MW-3D	**Bis-(2-Ethylhexyl) Phthalate**	**11.3**	**ug/l**	**02/17/2010**	**3**	**15**	**8.3**
MW-3D	Chlorobenzene	0.2	ug/l	08/19/2009	50	3	
MW-3D	Chloromethane	0.2	ug/l	08/19/2008	3	1	

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Well Name	Parameter Name	Concentration	Units	Sample Date	2L Standard	SWS Limit	Exceedance
MW-3D	Cis-1,2-Dichloroethene	1.2	ug/l	08/09/2007	70	5	
MW-3D	Cis-1,2-Dichloroethene	1.3	ug/l	02/19/2008	70	5	
MW-3D	Cis-1,2-Dichloroethene	2.2	ug/l	08/19/2008	70	5	
MW-3D	Cis-1,2-Dichloroethene	2.7	ug/l	02/17/2009	70	5	
MW-3D	Cis-1,2-Dichloroethene	3.3	ug/l	08/19/2009	70	5	
MW-3D	Cis-1,2-Dichloroethene	4.0	ug/l	02/17/2010	70	5	
MW-3D	Cis-1,2-Dichloroethene	6.4	ug/l	02/21/2011	70	5	
MW-3D	cis-1,2-Dichloroethene (-ethylene)	6.0	ug/l	08/25/2011	70	5	
MW-3D	Dichlorodifluoromethane	1.8	ug/l	08/09/2007	1000	5	
MW-3D	Dichlorodifluoromethane	2.2	ug/l	02/19/2008	1000	5	
MW-3D	Dichlorodifluoromethane	1.7	ug/l	08/19/2008	1000	5	
MW-3D	Dichlorodifluoromethane	1.3	ug/l	02/17/2009	1000	5	
MW-3D	Dichlorodifluoromethane	1.4	ug/l	08/19/2009	1000	5	
MW-3D	Dichlorodifluoromethane	1.3	ug/l	02/17/2010	1000	5	
MW-3D	Dichlorodifluoromethane	1.1	ug/l	08/25/2011	1000	5	
MW-3D	**Gamma-BHC (Lindane)**	**0.033**	**ug/l**	**02/19/2008**	**0.03**	**0.05**	**0.003**
MW-3D	Mercury	0.2	ug/l	08/09/2007	1	0.2	
MW-3D	Mercury	0.1	ug/l	02/19/2008	1	0.2	
MW-3D	Mercury	0.2	ug/l	08/19/2008	1	0.2	
MW-3D	Mercury	0.1	ug/l	02/17/2009	1	0.2	
MW-3D	Mercury	0.2	ug/l	08/19/2009	1	0.2	
MW-3D	Mercury	0.1	ug/l	02/17/2010	1	0.2	
MW-3D	Methylene Chloride	0.7	ug/l	08/09/2007	5	1	
MW-3D	Methylene Chloride	0.6	ug/l	08/19/2008	5	1	
MW-3D	Methylene Chloride	0.3	ug/l	02/17/2009	5	1	
MW-3D	Methylene Chloride	0.2	ug/l	08/19/2009	5	1	
MW-3D	**Tetrachloroethene**	**1.9**	**ug/l**	**08/09/2007**	**0.7**	**1**	**1.2**
MW-3D	**Tetrachloroethene**	**2.3**	**ug/l**	**02/19/2008**	**0.7**	**1**	**1.6**
MW-3D	**Tetrachloroethene**	**2.5**	**ug/l**	**08/19/2008**	**0.7**	**1**	**1.8**
MW-3D	**Tetrachloroethene**	**2.2**	**ug/l**	**02/17/2009**	**0.7**	**1**	**1.5**
MW-3D	**Tetrachloroethene**	**2.1**	**ug/l**	**08/19/2009**	**0.7**	**1**	**1.4**
MW-3D	**Tetrachloroethene**	**1.9**	**ug/l**	**02/17/2010**	**0.7**	**1**	**1.2**
MW-3D	**Tetrachloroethene**	**1.5**	**ug/l**	**08/23/2010**	**0.7**	**1**	**0.8**
MW-3D	**Tetrachloroethene**	**1.5**	**ug/l**	**02/21/2011**	**0.7**	**1**	**0.8**
MW-3D	**Tetrachloroethene (-ethylene)**	**1.2**	**ug/l**	**08/25/2011**	**0.7**	**1**	**0.5**
MW-3D	Toluene	0.6	ug/l	08/09/2007	600	1	
MW-3D	Toluene	0.3	ug/l	02/19/2008	600	1	
MW-3D	Trichloroethene	1.9	ug/l	08/09/2007	3	1	
MW-3D	Trichloroethene	2.1	ug/l	08/19/2008	3	1	
MW-3D	Trichloroethene	1.7	ug/l	02/17/2009	3	1	
MW-3D	Trichloroethene	1.4	ug/l	08/19/2009	3	1	
MW-3D	Trichloroethene	1.3	ug/l	02/17/2010	3	1	
MW-3D	Trichloroethene	1.2	ug/l	08/23/2010	3	1	
MW-3D	Trichloroethene	1.3	ug/l	02/21/2011	3	1	
MW-3D	Trichloroethene (-ethylene)	1.2	ug/l	08/25/2011	3	1	
MW-6D	1,1-Dichloroethane	1.0	ug/l	08/09/2007	6	5	
MW-6D	1,1-Dichloroethane	0.4	ug/l	02/19/2008	6	5	
MW-6D	1,1-Dichloroethane	0.5	ug/l	08/19/2008	6	5	
MW-6D	1,1-Dichloroethane	0.3	ug/l	08/19/2009	6	5	
MW-6D	1,1-Dichloroethane	0.5	ug/l	02/17/2010	6	5	

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Well Name	Parameter Name	Concentration	Units	Sample Date	2L Standard	SWS Limit	Exceedance
MW-6D	1,2-Dichlorobenzene	0.3	ug/l	08/09/2007	20	5	
MW-6D	1,2-Dichlorobenzene	0.2	ug/l	02/19/2008	20	5	
MW-6D	1,2-Dichlorobenzene	0.3	ug/l	08/19/2008	20	5	
MW-6D	1,2-Dichlorobenzene	0.2	ug/l	08/19/2009	20	5	
MW-6D	1,2-Dichloroethane	0.2	ug/l	08/09/2007	0.4	1	
MW-6D	1,4-Dichlorobenzene	1.9	ug/l	08/09/2007	6	1	
MW-6D	1,4-Dichlorobenzene	1.8	ug/l	02/19/2008	6	1	
MW-6D	1,4-Dichlorobenzene	2.4	ug/l	08/19/2008	6	1	
MW-6D	1,4-Dichlorobenzene	2.4	ug/l	02/17/2009	6	1	
MW-6D	1,4-Dichlorobenzene	2.2	ug/l	08/19/2009	6	1	
MW-6D	1,4-Dichlorobenzene	1.7	ug/l	02/17/2010	6	1	
MW-6D	1,4-Dichlorobenzene	2.5	ug/l	08/23/2010	6	1	
MW-6D	1,4-Dichlorobenzene	2.1	ug/l	02/21/2011	6	1	
MW-6D	1,4-Dichlorobenzene	1.7	ug/l	08/25/2011	6	1	
MW-6D	2-Butanone	1.8	ug/l	08/09/2007	4000	100	
MW-6D	2-Butanone (Methyl ethyl ketone)	3.1	ug/l	08/19/2008	4000	100	
MW-6D	2-Butanone (Methyl ethyl ketone)	1.6	ug/l	08/19/2009	4000	100	
MW-6D	Acetone	1.3	ug/l	08/09/2007	6000	100	
MW-6D	Acetone	3.2	ug/l	02/19/2008	6000	100	
MW-6D	Acetone	4.7	ug/l	08/19/2008	6000	100	
MW-6D	Acetone	3.2	ug/l	08/19/2009	6000	100	
MW-6D	Alpha-BHC	0.038	ug/l	02/19/2008	NE	0.05	
MW-6D	**Benzene**	**2.1**	**ug/l**	**08/09/2007**	**1**	**1**	**1.1**
MW-6D	**Benzene**	**1.7**	**ug/l**	**02/19/2008**	**1**	**1**	**0.7**
MW-6D	**Benzene**	**2.2**	**ug/l**	**08/19/2008**	**1**	**1**	**1.2**
MW-6D	**Benzene**	**1.8**	**ug/l**	**02/17/2009**	**1**	**1**	**0.8**
MW-6D	**Benzene**	**1.8**	**ug/l**	**08/19/2009**	**1**	**1**	**0.8**
MW-6D	**Benzene**	**1.8**	**ug/l**	**02/17/2010**	**1**	**1**	**0.8**
MW-6D	**Benzene**	**1.9**	**ug/l**	**08/23/2010**	**1**	**1**	**0.9**
MW-6D	**Benzene**	**1.8**	**ug/l**	**02/21/2011**	**1**	**1**	**0.8**
MW-6D	**Benzene**	**1.6**	**ug/l**	**08/25/2011**	**1**	**1**	**0.6**
MW-6D	**Bis-(2-Ethylhexyl) Phthalate**	**15.1**	**ug/l**	**08/09/2007**	**3**	**15**	**12.1**
MW-6D	**Bis-(2-Ethylhexyl) Phthalate**	**10.6**	**ug/l**	**02/17/2010**	**3**	**15**	**7.6**
MW-6D	Chlorobenzene	7.5	ug/l	02/14/2006	50	3	
MW-6D	Chlorobenzene	7.6	ug/l	08/22/2006	50	3	
MW-6D	Chlorobenzene	5.4	ug/l	02/14/2007	50	3	
MW-6D	Chlorobenzene	9.7	ug/l	08/09/2007	50	3	
MW-6D	Chlorobenzene	9.5	ug/l	02/19/2008	50	3	
MW-6D	Chlorobenzene	11.9	ug/l	08/19/2008	50	3	
MW-6D	Chlorobenzene	11.8	ug/l	02/17/2009	50	3	
MW-6D	Chlorobenzene	10.0	ug/l	08/19/2009	50	3	
MW-6D	Chlorobenzene	18.5	ug/l	02/17/2010	50	3	
MW-6D	Chlorobenzene	10.3	ug/l	08/23/2010	50	3	
MW-6D	Chlorobenzene	13.0	ug/l	02/21/2011	50	3	
MW-6D	Chlorobenzene	7.0	ug/l	08/25/2011	50	3	
MW-6D	Chloroethane	0.6	ug/l	08/09/2007	3000	10	
MW-6D	Chloroethane	0.9	ug/l	08/19/2008	3000	10	
MW-6D	Chloroethane	0.7	ug/l	08/25/2011	3000	10	
MW-6D	Cis-1,2-Dichloroethene	1.1	ug/l	02/19/2008	70	5	
MW-6D	Cis-1,2-Dichloroethene	1.1	ug/l	08/19/2008	70	5	
MW-6D	Cis-1,2-Dichloroethene	1.0	ug/l	02/17/2009	70	5	

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MW-6D	Cis-1,2-Dichloroethene	0.7	ug/l	08/19/2009	70	5	
MW-6D	Cis-1,2-Dichloroethene	1.5	ug/l	02/17/2010	70	5	
MW-6D	Delta-BHC	0.042	ug/l	02/19/2008	NE	0.05	
MW-6D	Dichlorodifluoromethane	0.2	ug/l	08/09/2007	1000	5	
MW-6D	Dichlorodifluoromethane	0.2	ug/l	08/19/2008	1000	5	
MW-6D	**Heptachlor**	**0.042**	**ug/l**	**08/19/2009**	**0.008**	**0.05**	**0.034**
MW-6D	Mercury	0.08	ug/l	08/09/2007	1	0.2	
MW-6D	Mercury	0.11	ug/l	08/19/2008	1	0.2	
MW-6D	Mercury	0.03	ug/l	02/17/2009	1	0.2	
MW-6D	Mercury	0.08	ug/l	08/19/2009	1	0.2	
MW-6D	Methylene Chloride	0.2	ug/l	08/09/2007	5	1	
MW-6D	Toluene	0.5	ug/l	08/09/2007	600	1	
MW-6D	Toluene	0.2	ug/l	02/19/2008	600	1	
MW-6D	**Vinyl chloride**	**1.4**	**ug/l**	**08/09/2007**	**0.03**	**1**	**1.37**
MW-6D	**Vinyl chloride**	**0.9**	**ug/l**	**02/19/2008**	**0.03**	**1**	**0.87**
MW-6D	**Vinyl chloride**	**1.1**	**ug/l**	**08/19/2008**	**0.03**	**1**	**1.07**
MW-6D	**Vinyl chloride**	**0.9**	**ug/l**	**02/17/2009**	**0.03**	**1**	**0.87**
MW-6D	**Vinyl chloride**	**0.7**	**ug/l**	**08/19/2009**	**0.03**	**1**	**0.67**
MW-6D	**Vinyl chloride**	**1.1**	**ug/l**	**02/17/2010**	**0.03**	**1**	**1.07**
MW-7D	2-Butanone	1.9	ug/l	08/09/2007	4000	100	
MW-7D	2-Butanone (Methyl ethyl ketone)	3.6	ug/l	08/19/2008	4000	100	
MW-7D	Acetone	1.3	ug/l	08/09/2007	6000	100	
MW-7D	Acetone	3.0	ug/l	02/19/2008	6000	100	
MW-7D	Acetone	5.1	ug/l	08/19/2008	6000	100	
MW-7D	Alpha-BHC	0.037	ug/l	02/19/2008	NE	0.05	
MW-7D	**Bis-(2-Ethylhexyl) Phthalate**	**14.8**	**ug/l**	**08/19/2008**	**3**	**15**	**11.8**
MW-7D	**Bis-(2-Ethylhexyl) Phthalate**	**11.1**	**ug/l**	**02/17/2010**	**3**	**15**	**8.1**
MW-7D	Delta-BHC	0.043	ug/l	02/19/2008	NE	0.05	
MW-7D	Mercury	0.03	ug/l	08/19/2008	1	0.2	
MW-7D	Mercury	0.12	ug/l	08/19/2009	1	0.2	
MW-7D	Mercury	0.03	ug/l	02/17/2010	1	0.2	
MW-7D	Toluene	0.4	ug/l	08/09/2007	600	1	
MW-7D	Toluene	0.2	ug/l	02/19/2008	600	1	
MW-15R	1,1,1-Trichloroethane	0.2	ug/l	08/09/2007	200	1	
MW-15R	**1,1-Dichloroethane**	**12.4**	**ug/l**	**02/14/2006**	**6**	**5**	**6.4**
MW-15R	**1,1-Dichloroethane**	**13.1**	**ug/l**	**08/22/2006**	**6**	**5**	**7.1**
MW-15R	**1,1-Dichloroethane**	**9.3**	**ug/l**	**02/14/2007**	**6**	**5**	**3.3**
MW-15R	**1,1-Dichloroethane**	**10.3**	**ug/l**	**08/09/2007**	**6**	**5**	**4.3**
MW-15R	**1,1-Dichloroethane**	**6.5**	**ug/l**	**02/19/2008**	**6**	**5**	**0.5**
MW-15R	1,1-Dichloroethane	4.7	ug/l	08/19/2008	6	5	
MW-15R	**1,1-Dichloroethane**	**6.4**	**ug/l**	**02/17/2009**	**6**	**5**	**0.4**
MW-15R	**1,1-Dichloroethane**	**8.1**	**ug/l**	**08/19/2009**	**6**	**5**	**2.1**
MW-15R	1,1-Dichloroethane	5.3	ug/l	02/17/2010	6	5	
MW-15R	**1,1-Dichloroethane**	**7.9**	**ug/l**	**08/23/2010**	**6**	**5**	**1.9**
MW-15R	**1,1-Dichloroethane**	**9.1**	**ug/l**	**02/21/2011**	**6**	**5**	**3.1**
MW-15R	**1,1-Dichloroethane**	**7.0**	**ug/l**	**08/24/2011**	**6**	**5**	**1**
MW-15R	**1,2-Dichloroethane**	**0.6**	**ug/l**	**08/09/2007**	**0.4**	**1**	**0.2**
MW-15R	1,2-Dichloroethane	0.4	ug/l	02/19/2008	0.4	1	
MW-15R	1,2-Dichloroethane	0.4	ug/l	08/19/2008	0.4	1	

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MW-15R	**1,2-Dichloroethane**	**0.5**	**ug/l**	**02/17/2009**	**0.4**	**1**	**0.1**
MW-15R	**1,2-Dichloroethane**	**0.6**	**ug/l**	**08/19/2009**	**0.4**	**1**	**0.2**
MW-15R	**1,2-Dichloroethane**	**0.5**	**ug/l**	**02/17/2010**	**0.4**	**1**	**0.1**
MW-15R	**1,2-Dichloroethane**	**0.6**	**ug/l**	**08/24/2011**	**0.4**	**1**	**0.2**
MW-15R	**1,4-Dichlorobenzene**	**9.6**	**ug/l**	**02/14/2007**	**6**	**1**	**3.6**
MW-15R	**1,4-Dichlorobenzene**	**10.2**	**ug/l**	**08/09/2007**	**6**	**1**	**4.2**
MW-15R	**1,4-Dichlorobenzene**	**10.7**	**ug/l**	**02/19/2008**	**6**	**1**	**4.7**
MW-15R	1,4-Dichlorobenzene	4.1	ug/l	08/19/2008	6	1	
MW-15R	1,4-Dichlorobenzene	5.8	ug/l	02/17/2009	6	1	
MW-15R	**1,4-Dichlorobenzene**	**12.3**	**ug/l**	**08/19/2009**	**6**	**1**	**6.3**
MW-15R	**1,4-Dichlorobenzene**	**6.6**	**ug/l**	**02/17/2010**	**6**	**1**	**0.6**
MW-15R	1,4-Dichlorobenzene	4.2	ug/l	08/23/2010	6	1	
MW-15R	2,4-D	0.39	ug/l	02/17/2009	70	2	
MW-15R	2-Butanone	1.8	ug/l	08/09/2007	4000	100	
MW-15R	2-Butanone (Methyl ethyl ketone)	3.4	ug/l	08/19/2008	4000	100	
MW-15R	Acetone	1.5	ug/l	08/09/2007	6000	100	
MW-15R	Acetone	2.7	ug/l	02/19/2008	6000	100	
MW-15R	Acetone	5.1	ug/l	08/19/2008	6000	100	
MW-15R	Alpha-BHC	0.094	ug/l	02/14/2007	NE	0.05	
MW-15R	Alpha-BHC	0.292	ug/l	08/09/2007	NE	0.05	
MW-15R	Alpha-BHC	0.335	ug/l	02/19/2008	NE	0.05	
MW-15R	Alpha-BHC	0.061	ug/l	02/17/2009	NE	0.05	
MW-15R	Benzene	0.3	ug/l	08/09/2007	1	1	
MW-15R	Benzene	0.2	ug/l	02/17/2009	1	1	
MW-15R	Benzene	0.3	ug/l	08/19/2009	1	1	
MW-15R	Beta-BHC	0.040	ug/l	02/17/2010	NE	0.05	
MW-15R	**Bis-(2-Ethylhexyl) Phthalate**	**24.0**	**ug/l**	**08/22/2006**	**3**	**15**	**21**
MW-15R	**Bis-(2-Ethylhexyl) Phthalate**	**47.0**	**ug/l**	**02/14/2007**	**3**	**15**	**44**
MW-15R	**Bis-(2-Ethylhexyl) Phthalate**	**31.0**	**ug/l**	**08/09/2007**	**3**	**15**	**28**
MW-15R	**Bis-(2-Ethylhexyl) Phthalate**	**14.3**	**ug/l**	**08/19/2008**	**3**	**15**	**11.3**
MW-15R	**Bis-(2-Ethylhexyl) Phthalate**	**11.4**	**ug/l**	**02/17/2010**	**3**	**15**	**8.4**
MW-15R	**Bis-(2-Ethylhexyl) Phthalate**	**25.0**	**ug/l**	**02/21/2011**	**3**	**15**	**22**
MW-15R	**Bis-(2-Ethylhexyl) Phthalate**	**23.0**	**ug/l**	**08/24/2011**	**3**	**15**	**20**
MW-15R	Chlorobenzene	0.2	ug/l	08/09/2007	50	3	
MW-15R	Chlorobenzene	0.2	ug/l	02/17/2009	50	3	
MW-15R	Chlorobenzene	0.3	ug/l	08/19/2009	50	3	
MW-15R	Chloroethane	0.3	ug/l	08/09/2007	3000	10	
MW-15R	Chloromethane	0.2	ug/l	08/19/2008	3	1	
MW-15R	Cis-1,2-Dichloroethene	5.6	ug/l	02/14/2007	70	5	
MW-15R	Cis-1,2-Dichloroethene	7.8	ug/l	08/09/2007	70	5	
MW-15R	Cis-1,2-Dichloroethene	4.4	ug/l	02/19/2008	70	5	
MW-15R	Cis-1,2-Dichloroethene	2.4	ug/l	08/19/2008	70	5	
MW-15R	Cis-1,2-Dichloroethene	4.5	ug/l	02/17/2009	70	5	
MW-15R	Cis-1,2-Dichloroethene	6.8	ug/l	08/19/2009	70	5	
MW-15R	Cis-1,2-Dichloroethene	3.7	ug/l	02/17/2010	70	5	
MW-15R	Cis-1,2-Dichloroethene	6.6	ug/l	08/23/2010	70	5	
MW-15R	Cis-1,2-Dichloroethene	5.9	ug/l	02/21/2011	70	5	
MW-15R	cis-1,2-Dichloroethene (-ethylene)	3.5	ug/l	08/24/2011	70	5	
MW-15R	Delta-BHC	0.067	ug/l	02/19/2008	NE	0.05	
MW-15R	Dichlorodifluoromethane	0.4	ug/l	08/09/2007	1000	5	
MW-15R	Dichlorodifluoromethane	0.3	ug/l	02/19/2008	1000	5	

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Well Name	Parameter Name	Concentration	Units	Sample Date	2L Standard	SWS Limit	Exceedance
MW-15R	Dichlorodifluoromethane	0.2	ug/l	08/19/2008	1000	5	
MW-15R	Dichlorodifluoromethane	0.2	ug/l	02/17/2009	1000	5	
MW-15R	**Gamma-BHC (Lindane)**	**0.098**	**ug/l**	**02/14/2007**	**0.03**	**0.05**	**0.068**
MW-15R	**Gamma-BHC (Lindane)**	**0.039**	**ug/l**	**08/19/2009**	**0.03**	**0.05**	**0.009**
MW-15R	**Heptachlor**	**0.088**	**ug/l**	**08/09/2007**	**0.008**	**0.05**	**0.08**
MW-15R	**Heptachlor**	**0.041**	**ug/l**	**08/19/2008**	**0.008**	**0.05**	**0.033**
MW-15R	Mercury	0.820	ug/l	02/14/2007	1	0.2	
MW-15R	**Mercury**	**6.650**	**ug/l**	**08/09/2007**	**1**	**0.2**	**5.65**
MW-15R	Mercury	0.770	ug/l	02/19/2008	1	0.2	
MW-15R	Mercury	0.740	ug/l	08/19/2008	1	0.2	
MW-15R	Mercury	0.740	ug/l	02/17/2009	1	0.2	
MW-15R	Mercury	0.480	ug/l	02/17/2010	1	0.2	
MW-15R	Mercury	0.470	ug/l	08/23/2010	1	0.2	
MW-15R	Mercury	0.280	ug/l	02/21/2011	1	0.2	
MW-15R	Mercury	0.300	ug/l	08/24/2011	1	0.2	
MW-15R	**Methylene Chloride**	**12.4**	**ug/l**	**02/14/2007**	**5**	**1**	**7.4**
MW-15R	**Methylene Chloride**	**6.5**	**ug/l**	**08/09/2007**	**5**	**1**	**1.5**
MW-15R	Methylene Chloride	2.3	ug/l	02/19/2008	5	1	
MW-15R	Methylene Chloride	3.1	ug/l	08/19/2008	5	1	
MW-15R	Methylene Chloride	3.8	ug/l	02/17/2009	5	1	
MW-15R	**Methylene Chloride**	**6.0**	**ug/l**	**08/19/2009**	**5**	**1**	**1**
MW-15R	Methylene Chloride	3.2	ug/l	02/17/2010	5	1	
MW-15R	**Methylene Chloride**	**7.7**	**ug/l**	**08/23/2010**	**5**	**1**	**2.7**
MW-15R	**Methylene Chloride**	**8.2**	**ug/l**	**02/21/2011**	**5**	**1**	**3.2**
MW-15R	Methylene chloride	4.2	ug/l	08/24/2011	5	1	
MW-15R	**Tetrachloroethene**	**3.3**	**ug/l**	**08/09/2007**	**0.7**	**1**	**2.6**
MW-15R	**Tetrachloroethene**	**2.5**	**ug/l**	**02/19/2008**	**0.7**	**1**	**1.8**
MW-15R	**Tetrachloroethene**	**1.9**	**ug/l**	**08/19/2008**	**0.7**	**1**	**1.2**
MW-15R	**Tetrachloroethene**	**2.5**	**ug/l**	**02/17/2009**	**0.7**	**1**	**1.8**
MW-15R	**Tetrachloroethene**	**3.1**	**ug/l**	**08/19/2009**	**0.7**	**1**	**2.4**
MW-15R	**Tetrachloroethene**	**2.5**	**ug/l**	**02/17/2010**	**0.7**	**1**	**1.8**
MW-15R	**Tetrachloroethene**	**2.5**	**ug/l**	**08/23/2010**	**0.7**	**1**	**1.8**
MW-15R	**Tetrachloroethene**	**2.5**	**ug/l**	**02/21/2011**	**0.7**	**1**	**1.8**
MW-15R	**Tetrachloroethene (-ethylene)**	**2.6**	**ug/l**	**08/24/2011**	**0.7**	**1**	**1.9**
MW-15R	Toluene	0.4	ug/l	08/09/2007	600	1	
MW-15R	Toluene	0.2	ug/l	02/19/2008	600	1	
MW-15R	**Trichloroethene**	**3.4**	**ug/l**	**02/14/2007**	**3**	**1**	**0.4**
MW-15R	**Trichloroethene**	**4.4**	**ug/l**	**08/09/2007**	**3**	**1**	**1.4**
MW-15R	Trichloroethene	2.9	ug/l	02/19/2008	3	1	
MW-15R	Trichloroethene	1.3	ug/l	08/19/2008	3	1	
MW-15R	Trichloroethene	2.6	ug/l	02/17/2009	3	1	
MW-15R	**Trichloroethene**	**3.5**	**ug/l**	**08/19/2009**	**3**	**1**	**0.5**
MW-15R	Trichloroethene	2.1	ug/l	02/17/2010	3	1	
MW-15R	Trichloroethene	2.8	ug/l	08/23/2010	3	1	
MW-15R	Trichloroethene	2.6	ug/l	02/21/2011	3	1	
MW-15R	Trichloroethene (-ethylene)	2.0	ug/l	08/24/2011	3	1	
MW-15R	Trichlorofluoromethane	0.3	ug/l	08/09/2007	2000	1	
MW-15R	Xylenes	2.2	ug/l	08/09/2007	500	5	
MW-15R	Xylenes	0.6	ug/l	02/19/2008	500	5	
MW-15R	Xylenes	0.5	ug/l	08/19/2008	500	5	
MW-15R	Xylenes	0.7	ug/l	02/17/2009	500	5	

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MW-15R	Xylenes	0.8	ug/l	08/19/2009	500	5	
MW-16A	1,1,1-Trichloroethane	0.3	ug/l	08/09/2007	200	1	
MW-16A	1,1,1-Trichloroethane	0.2	ug/l	02/19/2008	200	1	
MW-16A	1,1,1-Trichloroethane	0.2	ug/l	08/19/2008	200	1	
MW-16A	1,1,1-Trichloroethane	0.2	ug/l	02/17/2009	200	1	
MW-16A	**1,1-Dichloroethane**	**12.9**	**ug/l**	**02/14/2006**	**6**	**5**	**6.9**
MW-16A	**1,1-Dichloroethane**	**13.6**	**ug/l**	**08/22/2006**	**6**	**5**	**7.6**
MW-16A	**1,1-Dichloroethane**	**13.4**	**ug/l**	**02/14/2007**	**6**	**5**	**7.4**
MW-16A	**1,1-Dichloroethane**	**14.3**	**ug/l**	**08/09/2007**	**6**	**5**	**8.3**
MW-16A	**1,1-Dichloroethane**	**10.3**	**ug/l**	**02/19/2008**	**6**	**5**	**4.3**
MW-16A	**1,1-Dichloroethane**	**13.2**	**ug/l**	**08/19/2008**	**6**	**5**	**7.2**
MW-16A	**1,1-Dichloroethane**	**10.6**	**ug/l**	**02/17/2009**	**6**	**5**	**4.6**
MW-16A	**1,1-Dichloroethane**	**9.6**	**ug/l**	**08/19/2009**	**6**	**5**	**3.6**
MW-16A	**1,1-Dichloroethane**	**8.0**	**ug/l**	**02/17/2010**	**6**	**5**	**2**
MW-16A	**1,1-Dichloroethane**	**11.3**	**ug/l**	**08/23/2010**	**6**	**5**	**5.3**
MW-16A	**1,1-Dichloroethane**	**12.4**	**ug/l**	**02/21/2011**	**6**	**5**	**6.4**
MW-16A	**1,1-Dichloroethane**	**11.5**	**ug/l**	**08/24/2011**	**6**	**5**	**5.5**
MW-16A	1,1-Dichloroethene	0.4	ug/l	08/09/2007	7	5	
MW-16A	1,1-Dichloroethene	0.3	ug/l	02/19/2008	7	5	
MW-16A	1,1-Dichloroethene	0.4	ug/l	02/17/2009	7	5	
MW-16A	1,1-Dichloroethene (-ethylene)	0.4	ug/l	08/19/2008	7	5	
MW-16A	1,1-Dichloroethene (-ethylene)	0.2	ug/l	08/19/2009	7	5	
MW-16A	1,1-Dichloroethene (-ethylene)	0.4	ug/l	08/24/2011	7	5	
MW-16A	1,2-Dichlorobenzene	0.9	ug/l	08/09/2007	20	5	
MW-16A	1,2-Dichlorobenzene	0.7	ug/l	02/19/2008	20	5	
MW-16A	1,2-Dichlorobenzene	1.0	ug/l	08/19/2008	20	5	
MW-16A	1,2-Dichlorobenzene	1.0	ug/l	02/17/2009	20	5	
MW-16A	1,2-Dichlorobenzene	1.0	ug/l	08/19/2009	20	5	
MW-16A	1,2-Dichlorobenzene	0.5	ug/l	02/17/2010	20	5	
MW-16A	1,2-Dichlorobenzene	0.8	ug/l	08/24/2011	20	5	
MW-16A	1,2-Dichloroethane	0.3	ug/l	08/09/2007	0.4	1	
MW-16A	1,2-Dichloroethane	0.2	ug/l	02/19/2008	0.4	1	
MW-16A	1,2-Dichloroethane	0.3	ug/l	08/19/2008	0.4	1	
MW-16A	1,2-Dichloropropane	0.6	ug/l	08/09/2007	0.6	1	
MW-16A	1,2-Dichloropropane	0.4	ug/l	02/19/2008	0.6	1	
MW-16A	1,2-Dichloropropane	0.6	ug/l	08/19/2008	0.6	1	
MW-16A	1,2-Dichloropropane	0.5	ug/l	02/17/2009	0.6	1	
MW-16A	1,2-Dichloropropane	0.6	ug/l	08/19/2009	0.6	1	
MW-16A	1,2-Dichloropropane	0.3	ug/l	02/17/2010	0.6	1	
MW-16A	1,2-Dichloropropane	0.3	ug/l	08/24/2011	0.6	1	
MW-16A	1,4-Dichlorobenzene	1.4	ug/l	08/09/2007	6	1	
MW-16A	1,4-Dichlorobenzene	1.1	ug/l	02/19/2008	6	1	
MW-16A	1,4-Dichlorobenzene	1.5	ug/l	08/19/2008	6	1	
MW-16A	1,4-Dichlorobenzene	1.5	ug/l	02/17/2009	6	1	
MW-16A	1,4-Dichlorobenzene	1.8	ug/l	08/19/2009	6	1	
MW-16A	1,4-Dichlorobenzene	0.9	ug/l	02/17/2010	6	1	
MW-16A	1,4-Dichlorobenzene	1.5	ug/l	08/23/2010	6	1	
MW-16A	1,4-Dichlorobenzene	1.2	ug/l	08/24/2011	6	1	
MW-16A	2-Butanone	2.1	ug/l	08/09/2007	4000	100	
MW-16A	2-Butanone (Methyl ethyl ketone)	2.8	ug/l	08/19/2008	4000	100	

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MW-16A	Acetone	2.1	ug/l	08/09/2007	6000	100	
MW-16A	Acetone	3.0	ug/l	02/19/2008	6000	100	
MW-16A	Acetone	4.6	ug/l	08/19/2008	6000	100	
MW-16A	Aldrin	0.037	ug/l	02/17/2009	NE	0.05	
MW-16A	Alpha-BHC	0.039	ug/l	02/19/2008	NE	0.05	
MW-16A	**Benzene**	**2.9**	**ug/l**	**08/09/2007**	**1**	**1**	**1.9**
MW-16A	**Benzene**	**2.0**	**ug/l**	**02/19/2008**	**1**	**1**	**1**
MW-16A	**Benzene**	**2.7**	**ug/l**	**08/19/2008**	**1**	**1**	**1.7**
MW-16A	**Benzene**	**2.5**	**ug/l**	**02/17/2009**	**1**	**1**	**1.5**
MW-16A	**Benzene**	**2.5**	**ug/l**	**08/19/2009**	**1**	**1**	**1.5**
MW-16A	**Benzene**	**1.5**	**ug/l**	**02/17/2010**	**1**	**1**	**0.5**
MW-16A	**Benzene**	**2.5**	**ug/l**	**08/23/2010**	**1**	**1**	**1.5**
MW-16A	**Benzene**	**1.2**	**ug/l**	**02/21/2011**	**1**	**1**	**0.2**
MW-16A	**Benzene**	**2.1**	**ug/l**	**08/24/2011**	**1**	**1**	**1.1**
MW-16A	**Bis-(2-Ethylhexyl) Phthalate**	**11.1**	**ug/l**	**08/09/2007**	**3**	**15**	**8.1**
MW-16A	Chlorobenzene	1.1	ug/l	08/09/2007	50	3	
MW-16A	Chlorobenzene	0.9	ug/l	02/19/2008	50	3	
MW-16A	Chlorobenzene	1.2	ug/l	08/19/2008	50	3	
MW-16A	Chlorobenzene	1.1	ug/l	02/17/2009	50	3	
MW-16A	Chlorobenzene	1.1	ug/l	08/19/2009	50	3	
MW-16A	Chlorobenzene	0.7	ug/l	02/17/2010	50	3	
MW-16A	Chlorobenzene	0.9	ug/l	08/24/2011	50	3	
MW-16A	Chloroethane	0.9	ug/l	08/09/2007	3000	10	
MW-16A	Chloroethane	1.0	ug/l	02/19/2008	3000	10	
MW-16A	Chloroethane	1.0	ug/l	08/19/2008	3000	10	
MW-16A	Chloroethane	0.8	ug/l	02/17/2009	3000	10	
MW-16A	Chloroethane	0.7	ug/l	08/19/2009	3000	10	
MW-16A	Chloroethane	0.5	ug/l	02/17/2010	3000	10	
MW-16A	Chloroethane	0.7	ug/l	08/24/2011	3000	10	
MW-16A	Chloromethane	0.2	ug/l	08/19/2008	3	1	
MW-16A	Chloromethane	0.6	ug/l	08/19/2009	3	1	
MW-16A	Cis-1,2-Dichloroethene	27.3	ug/l	02/14/2006	70	5	
MW-16A	Cis-1,2-Dichloroethene	32.4	ug/l	08/22/2006	70	5	
MW-16A	Cis-1,2-Dichloroethene	35.7	ug/l	02/14/2007	70	5	
MW-16A	Cis-1,2-Dichloroethene	40.5	ug/l	08/09/2007	70	5	
MW-16A	Cis-1,2-Dichloroethene	26.3	ug/l	02/19/2008	70	5	
MW-16A	Cis-1,2-Dichloroethene	35.1	ug/l	08/19/2008	70	5	
MW-16A	Cis-1,2-Dichloroethene	32.4	ug/l	02/17/2009	70	5	
MW-16A	Cis-1,2-Dichloroethene	29.8	ug/l	08/19/2009	70	5	
MW-16A	Cis-1,2-Dichloroethene	19.1	ug/l	02/17/2010	70	5	
MW-16A	Cis-1,2-Dichloroethene	29.6	ug/l	08/23/2010	70	5	
MW-16A	Cis-1,2-Dichloroethene	18.6	ug/l	02/21/2011	70	5	
MW-16A	cis-1,2-Dichloroethene (-ethylene)	26.4	ug/l	08/24/2011	70	5	
MW-16A	Dichlorodifluoromethane	7.1	ug/l	02/14/2006	1000	5	
MW-16A	Dichlorodifluoromethane	9.6	ug/l	02/14/2007	1000	5	
MW-16A	Dichlorodifluoromethane	4.7	ug/l	08/09/2007	1000	5	
MW-16A	Dichlorodifluoromethane	9.3	ug/l	02/19/2008	1000	5	
MW-16A	Dichlorodifluoromethane	6.3	ug/l	08/19/2008	1000	5	
MW-16A	Dichlorodifluoromethane	7.1	ug/l	02/17/2009	1000	5	
MW-16A	Dichlorodifluoromethane	6.7	ug/l	08/19/2009	1000	5	
MW-16A	Dichlorodifluoromethane	5.3	ug/l	02/17/2010	1000	5	

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MW-16A	Dichlorodifluoromethane	5.3	ug/l	08/23/2010	1000	5	
MW-16A	Dichlorodifluoromethane	6.7	ug/l	02/21/2011	1000	5	
MW-16A	Dichlorodifluoromethane	10.0	ug/l	08/24/2011	1000	5	
MW-16A	**Heptachlor**	**0.044**	**ug/l**	**08/19/2009**	**0.008**	**0.05**	**0.036**
MW-16A	Mercury	0.44	ug/l	08/09/2007	1	0.2	
MW-16A	Mercury	0.05	ug/l	02/19/2008	1	0.2	
MW-16A	Mercury	0.41	ug/l	08/19/2008	1	0.2	
MW-16A	Mercury	0.39	ug/l	02/17/2009	1	0.2	
MW-16A	Mercury	0.11	ug/l	02/17/2010	1	0.2	
MW-16A	Mercury	0.23	ug/l	08/23/2010	1	0.2	
MW-16A	Mercury	0.22	ug/l	08/24/2011	1	0.2	
MW-16A	**Methylene Chloride**	**46.6**	**ug/l**	**02/14/2006**	**5**	**1**	**41.6**
MW-16A	**Methylene Chloride**	**18.3**	**ug/l**	**08/22/2006**	**5**	**1**	**13.3**
MW-16A	**Methylene Chloride**	**48.3**	**ug/l**	**02/14/2007**	**5**	**1**	**43.3**
MW-16A	**Methylene Chloride**	**22.5**	**ug/l**	**08/09/2007**	**5**	**1**	**17.5**
MW-16A	Methylene Chloride	1.2	ug/l	02/19/2008	5	1	
MW-16A	**Methylene Chloride**	**20.0**	**ug/l**	**08/19/2008**	**5**	**1**	**15**
MW-16A	**Methylene Chloride**	**6.4**	**ug/l**	**02/17/2009**	**5**	**1**	**1.4**
MW-16A	Methylene Chloride	4.4	ug/l	08/19/2009	5	1	
MW-16A	Methylene Chloride	2.6	ug/l	02/17/2010	5	1	
MW-16A	Methylene Chloride	1.4	ug/l	08/23/2010	5	1	
MW-16A	Methylene Chloride	1.7	ug/l	02/21/2011	5	1	
MW-16A	Methylene chloride	3.1	ug/l	08/24/2011	5	1	
MW-16A	**Tetrachloroethene**	**23.2**	**ug/l**	**02/14/2006**	**0.7**	**1**	**22.5**
MW-16A	**Tetrachloroethene**	**22.1**	**ug/l**	**08/22/2006**	**0.7**	**1**	**21.4**
MW-16A	**Tetrachloroethene**	**23.6**	**ug/l**	**02/14/2007**	**0.7**	**1**	**22.9**
MW-16A	**Tetrachloroethene**	**26.6**	**ug/l**	**08/09/2007**	**0.7**	**1**	**25.9**
MW-16A	**Tetrachloroethene**	**31.9**	**ug/l**	**02/19/2008**	**0.7**	**1**	**31.2**
MW-16A	**Tetrachloroethene**	**36.6**	**ug/l**	**08/19/2008**	**0.7**	**1**	**35.9**
MW-16A	**Tetrachloroethene**	**37.0**	**ug/l**	**02/17/2009**	**0.7**	**1**	**36.3**
MW-16A	**Tetrachloroethene**	**40.9**	**ug/l**	**08/19/2009**	**0.7**	**1**	**40.2**
MW-16A	**Tetrachloroethene**	**35.1**	**ug/l**	**02/17/2010**	**0.7**	**1**	**34.4**
MW-16A	**Tetrachloroethene**	**52.2**	**ug/l**	**08/23/2010**	**0.7**	**1**	**51.5**
MW-16A	**Tetrachloroethene**	**44.9**	**ug/l**	**02/21/2011**	**0.7**	**1**	**44.2**
MW-16A	**Tetrachloroethene (-ethylene)**	**53.1**	**ug/l**	**08/24/2011**	**0.7**	**1**	**52.4**
MW-16A	Toluene	0.6	ug/l	08/09/2007	600	1	
MW-16A	Toluene	0.3	ug/l	02/19/2008	600	1	
MW-16A	trans-1,2-Dichloroethene	0.4	ug/l	08/09/2007	100	5	
MW-16A	trans-1,2-Dichloroethene	0.2	ug/l	02/19/2008	100	5	
MW-16A	trans-1,2-Dichloroethene	0.4	ug/l	08/19/2008	100	5	
MW-16A	trans-1,2-Dichloroethene	0.3	ug/l	02/17/2009	100	5	
MW-16A	trans-1,2-Dichloroethene	0.4	ug/l	08/19/2009	100	5	
MW-16A	trans-1,2-Dichloroethene	0.3	ug/l	02/17/2010	100	5	
MW-16A	trans-1,2-Dichloroethene	0.5	ug/l	08/24/2011	100	5	
MW-16A	**Trichloroethene**	**18.3**	**ug/l**	**02/14/2006**	**3**	**1**	**15.3**
MW-16A	**Trichloroethene**	**19.2**	**ug/l**	**08/22/2006**	**3**	**1**	**16.2**
MW-16A	**Trichloroethene**	**20.5**	**ug/l**	**02/14/2007**	**3**	**1**	**17.5**
MW-16A	**Trichloroethene**	**20.8**	**ug/l**	**08/09/2007**	**3**	**1**	**17.8**
MW-16A	**Trichloroethene**	**17.4**	**ug/l**	**02/19/2008**	**3**	**1**	**14.4**
MW-16A	**Trichloroethene**	**20.2**	**ug/l**	**08/19/2008**	**3**	**1**	**17.2**
MW-16A	**Trichloroethene**	**18.5**	**ug/l**	**02/17/2009**	**3**	**1**	**15.5**

RICHARDSON SMITH GARDNER & ASSOCIATES
ENGINEERING & GEOLOGICAL SERVICES

TABLE 1
Five Year Detection Summary

Date: 3/9/2012
By: MG

Well Name	Parameter Name	Concentration	Units	Sample Date	2L Standard	SWS Limit	Exceedance
MW-16A	**Trichloroethene**	**19.9**	**ug/l**	**08/19/2009**	**3**	**1**	**16.9**
MW-16A	**Trichloroethene**	**14.7**	**ug/l**	**02/17/2010**	**3**	**1**	**11.7**
MW-16A	**Trichloroethene**	**20.2**	**ug/l**	**08/23/2010**	**3**	**1**	**17.2**
MW-16A	**Trichloroethene**	**20.1**	**ug/l**	**02/21/2011**	**3**	**1**	**17.1**
MW-16A	**Trichloroethene (-ethylene)**	**20.6**	**ug/l**	**08/24/2011**	**3**	**1**	**17.6**
MW-16A	Trichlorofluoromethane	1.3	ug/l	08/09/2007	2000	1	
MW-16A	Trichlorofluoromethane	0.9	ug/l	02/19/2008	2000	1	
MW-16A	Trichlorofluoromethane	1.3	ug/l	08/19/2008	2000	1	
MW-16A	Trichlorofluoromethane	1.3	ug/l	02/17/2009	2000	1	
MW-16A	Trichlorofluoromethane	0.9	ug/l	08/19/2009	2000	1	
MW-16A	Trichlorofluoromethane	0.8	ug/l	02/17/2010	2000	1	
MW-16A	Trichlorofluoromethane	0.7	ug/l	08/24/2011	2000	1	
MW-16A	**Vinyl chloride**	**0.8**	**ug/l**	**08/09/2007**	**0.03**	**1**	**0.77**
MW-16A	**Vinyl chloride**	**0.5**	**ug/l**	**02/19/2008**	**0.03**	**1**	**0.47**
MW-16A	**Vinyl chloride**	**0.8**	**ug/l**	**08/19/2008**	**0.03**	**1**	**0.77**
MW-16A	**Vinyl chloride**	**0.8**	**ug/l**	**02/17/2009**	**0.03**	**1**	**0.77**
MW-16A	**Vinyl chloride**	**0.7**	**ug/l**	**08/24/2011**	**0.03**	**1**	**0.67**
MW-16A	Xylenes	2.3	ug/l	08/09/2007	500	5	
MW-16A	Xylenes	1.8	ug/l	08/19/2008	500	5	
MW-16A	Xylenes	1.3	ug/l	02/17/2009	500	5	
MW-16A	Xylenes	0.7	ug/l	08/24/2011	500	5	
MW-17	1,1-Dichloroethane	3.1	ug/l	08/09/2007	6	5	
MW-17	1,1-Dichloroethane	2.0	ug/l	02/19/2008	6	5	
MW-17	1,1-Dichloroethane	3.4	ug/l	08/19/2008	6	5	
MW-17	1,1-Dichloroethane	2.8	ug/l	02/17/2009	6	5	
MW-17	1,1-Dichloroethane	3.8	ug/l	08/19/2009	6	5	
MW-17	1,1-Dichloroethane	3.3	ug/l	02/17/2010	6	5	
MW-17	1,1-Dichloroethane	4.8	ug/l	08/25/2011	6	5	
MW-17	1,1-Dichloroethene	0.2	ug/l	08/09/2007	7	5	
MW-17	1,1-Dichloroethene	0.2	ug/l	02/17/2010	7	5	
MW-17	1,1-Dichloroethene (-ethylene)	0.2	ug/l	08/19/2008	7	5	
MW-17	1,1-Dichloroethene (-ethylene)	0.2	ug/l	08/25/2011	7	5	
MW-17	2-Butanone (Methyl ethyl ketone)	3.8	ug/l	08/19/2008	4000	100	
MW-17	2-Butanone (Methyl ethyl ketone)	1.3	ug/l	08/19/2009	4000	100	
MW-17	Acetone	4.1	ug/l	02/19/2008	6000	100	
MW-17	Acetone	5.3	ug/l	08/19/2008	6000	100	
MW-17	Acetone	1.6	ug/l	08/19/2009	6000	100	
MW-17	Benzene	0.2	ug/l	08/19/2009	1	1	
MW-17	**Bis-(2-Ethylhexyl) Phthalate**	**11.8**	**ug/l**	**02/17/2010**	**3**	**15**	**8.8**
MW-17	Chlorobenzene	0.2	ug/l	08/19/2009	50	3	
MW-17	Chloromethane	0.2	ug/l	08/19/2008	3	1	
MW-17	Cis-1,2-Dichloroethene	1.4	ug/l	08/09/2007	70	5	
MW-17	Cis-1,2-Dichloroethene	0.9	ug/l	02/19/2008	70	5	
MW-17	Cis-1,2-Dichloroethene	1.4	ug/l	08/19/2008	70	5	
MW-17	Cis-1,2-Dichloroethene	1.2	ug/l	02/17/2009	70	5	
MW-17	Cis-1,2-Dichloroethene	3.0	ug/l	08/19/2009	70	5	
MW-17	Cis-1,2-Dichloroethene	1.6	ug/l	02/17/2010	70	5	
MW-17	cis-1,2-Dichloroethene (-ethylene)	2.8	ug/l	08/25/2011	70	5	
MW-17	Dichlorodifluoromethane	1.9	ug/l	08/19/2009	1000	5	
MW-17	Dichlorodifluoromethane	1.7	ug/l	08/25/2011	1000	5	

RICHARDSON SMITH GARDNER & ASSOCIATES
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TABLE 1
Five Year Detection Summary

Date: 3/9/2012
By: MG

Well Name	Parameter Name	Concentration	Units	Sample Date	2L Standard	SWS Limit	Exceedance
MW-17	**Heptachlor**	**0.042**	**ug/l**	**08/19/2009**	**0.008**	**0.05**	**0.034**
MW-17	Mercury	0.18	ug/l	08/19/2009	1	0.2	
MW-17	Mercury	0.1	ug/l	02/17/2010	1	0.2	
MW-17	Methylene Chloride	0.2	ug/l	08/09/2007	5	1	
MW-17	Methylene Chloride	0.2	ug/l	02/19/2008	5	1	
MW-17	Methylene Chloride	0.7	ug/l	08/19/2008	5	1	
MW-17	Methylene Chloride	0.4	ug/l	02/17/2009	5	1	
MW-17	Methylene Chloride	0.8	ug/l	08/19/2009	5	1	
MW-17	**Tetrachloroethene**	**1.1**	**ug/l**	**08/09/2007**	**0.7**	**1**	**0.4**
MW-17	**Tetrachloroethene**	**1.4**	**ug/l**	**02/19/2008**	**0.7**	**1**	**0.7**
MW-17	**Tetrachloroethene**	**1.7**	**ug/l**	**08/19/2008**	**0.7**	**1**	**1**
MW-17	**Tetrachloroethene**	**1.6**	**ug/l**	**02/17/2009**	**0.7**	**1**	**0.9**
MW-17	**Tetrachloroethene**	**1.5**	**ug/l**	**08/19/2009**	**0.7**	**1**	**0.8**
MW-17	**Tetrachloroethene**	**1.6**	**ug/l**	**02/17/2010**	**0.7**	**1**	**0.9**
MW-17	**Tetrachloroethene**	**1.8**	**ug/l**	**08/23/2010**	**0.7**	**1**	**1.1**
MW-17	**Tetrachloroethene**	**1.5**	**ug/l**	**02/21/2011**	**0.7**	**1**	**0.8**
MW-17	**Tetrachloroethene (-ethylene)**	**1.5**	**ug/l**	**08/25/2011**	**0.7**	**1**	**0.8**
MW-17	Toluene	0.3	ug/l	02/19/2008	600	1	
MW-17	Trichloroethene	1.8	ug/l	08/09/2007	3	1	
MW-17	Trichloroethene	1.3	ug/l	02/19/2008	3	1	
MW-17	Trichloroethene	1.8	ug/l	08/19/2008	3	1	
MW-17	Trichloroethene	1.5	ug/l	02/17/2009	3	1	
MW-17	Trichloroethene	2.3	ug/l	08/19/2009	3	1	
MW-17	Trichloroethene	1.6	ug/l	02/17/2010	3	1	
MW-17	Trichloroethene	2.1	ug/l	08/23/2010	3	1	
MW-17	Trichloroethene	1.7	ug/l	02/21/2011	3	1	
MW-17	Trichloroethene (-ethylene)	1.4	ug/l	08/25/2011	3	1	
MW-17	Trichlorofluoromethane	0.3	ug/l	08/09/2007	2000	1	
MW-17	Trichlorofluoromethane	0.2	ug/l	02/19/2008	2000	1	
MW-17	Trichlorofluoromethane	0.3	ug/l	08/19/2008	2000	1	
MW-18D	1,1-Dichloroethane	1.5	ug/l	08/09/2007	6	5	
MW-18D	1,1-Dichloroethane	1.1	ug/l	02/19/2008	6	5	
MW-18D	1,1-Dichloroethane	1.2	ug/l	08/19/2008	6	5	
MW-18D	1,1-Dichloroethane	1.0	ug/l	02/17/2009	6	5	
MW-18D	1,1-Dichloroethane	0.9	ug/l	02/17/2010	6	5	
MW-18D	2-Butanone (Methyl ethyl ketone)	3.3	ug/l	08/19/2008	4000	100	
MW-18D	Acetone	2.8	ug/l	02/19/2008	6000	100	
MW-18D	Acetone	5.0	ug/l	08/19/2008	6000	100	
MW-18D	Chloromethane	0.2	ug/l	08/19/2008	3	1	
MW-18D	Cis-1,2-Dichloroethene	0.8	ug/l	08/09/2007	70	5	
MW-18D	Cis-1,2-Dichloroethene	0.6	ug/l	02/19/2008	70	5	
MW-18D	Cis-1,2-Dichloroethene	0.6	ug/l	08/19/2008	70	5	
MW-18D	Cis-1,2-Dichloroethene	0.5	ug/l	02/17/2009	70	5	
MW-18D	Cis-1,2-Dichloroethene	0.6	ug/l	02/17/2010	70	5	
MW-18D	Mercury	0.07	ug/l	02/17/2010	1	0.2	
MW-18D	Tetrachloroethene	0.2	ug/l	02/19/2008	0.7	1	
MW-18D	Toluene	0.3	ug/l	02/19/2008	600	1	
MW-18D	Trichloroethene	0.3	ug/l	08/09/2007	3	1	
MW-18D	Trichloroethene	0.2	ug/l	02/19/2008	3	1	
MW-18D	Trichloroethene	0.3	ug/l	08/19/2008	3	1	

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TABLE 1
Five Year Detection Summary

Date: 3/9/2012
By: MG

Well Name	Parameter Name	Concentration	Units	Sample Date	2L Standard	SWS Limit	Exceedance
MW-18D	Trichloroethene	0.2	ug/l	02/17/2009	3	1	
MW-18S	1,1-Dichloroethane	1.2	ug/l	08/09/2007	6	5	
MW-18S	1,1-Dichloroethane	0.5	ug/l	02/19/2008	6	5	
MW-18S	1,1-Dichloroethane	1.4	ug/l	08/19/2008	6	5	
MW-18S	1,1-Dichloroethane	0.7	ug/l	02/17/2009	6	5	
MW-18S	1,1-Dichloroethane	0.9	ug/l	08/19/2009	6	5	
MW-18S	1,1-Dichloroethane	0.3	ug/l	02/17/2010	6	5	
MW-18S	1,1-Dichloroethane	0.4	ug/l	08/25/2011	6	5	
MW-18S	2-Butanone	1.4	ug/l	08/09/2007	4000	100	
MW-18S	2-Butanone (Methyl ethyl ketone)	3.3	ug/l	08/19/2008	4000	100	
MW-18S	Acetone	9.1	ug/l	08/09/2007	6000	100	
MW-18S	Acetone	3.2	ug/l	02/19/2008	6000	100	
MW-18S	Acetone	5.4	ug/l	08/19/2008	6000	100	
MW-18S	Acetone	2.6	ug/l	08/19/2009	6000	100	
MW-18S	Chloroethane	0.3	ug/l	08/19/2009	3000	10	
MW-18S	Chloromethane	0.2	ug/l	08/19/2008	3	1	
MW-18S	Chloromethane	0.2	ug/l	08/19/2009	3	1	
MW-18S	Cis-1,2-Dichloroethene	0.2	ug/l	08/09/2007	70	5	
MW-18S	Cis-1,2-Dichloroethene	0.3	ug/l	02/19/2008	70	5	
MW-18S	Cis-1,2-Dichloroethene	0.6	ug/l	08/19/2008	70	5	
MW-18S	Cis-1,2-Dichloroethene	0.2	ug/l	02/17/2009	70	5	
MW-18S	Toluene	0.3	ug/l	08/09/2007	600	1	
MW-18S	Toluene	0.3	ug/l	02/19/2008	600	1	
MW-18S	**Vinyl chloride**	**0.7**	**ug/l**	**08/09/2007**	**0.03**	**1**	**0.67**
MW-18S	**Vinyl chloride**	**0.5**	**ug/l**	**02/19/2008**	**0.03**	**1**	**0.47**
MW-18S	**Vinyl chloride**	**0.7**	**ug/l**	**08/19/2008**	**0.03**	**1**	**0.67**
MW-18S	**Vinyl chloride**	**0.4**	**ug/l**	**02/17/2009**	**0.03**	**1**	**0.37**
MW-18S	**Vinyl chloride**	**0.4**	**ug/l**	**08/19/2009**	**0.03**	**1**	**0.37**

NOTE:
1. Exceedance value is calculated over the 2L Standard.
2. Bold indicated detection above the 2L Standard.
3. Highlighting indicates detection above the SWSL.

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TABLE 2
Monitored Natural Attenuation Summary

Date: 3/9/2012
By: MG

	Date	BOD (ug/l)	COD (ug/l)	Nitrate Nitrogen as N (ug/l)	TOC (ug/l)	Total Alkalinity (ug/l)	Chloride (ug/l)	Sulfate (ug/l)	Sulfide (ug/l)	Iron (ug/l)	Turbidity (NTU)	Dissolved Oxygen (ug/l)
MW-2A	8/19/2009	5100	23000	90 J	5180	93000	7000	10100 J	<1000	NS	105	930
	2/16/2010	7800	13000	NS	1860	128000	5000	<250000	<1000	19800	190	890
	8/23/2010	7000	44000	80 J	6540	124000	6000	<250000	<1000	19130	500	2940
	2/21/2011*	4400	24000	<10000	5640	106000	7000	<250000	<1000	28850	15	1660
	8/24/2011	<2000	26000	50 J	8540	101000	5000	6300	<100	26225	42	450
MW-2AD	8/19/2009	<2000	10000	<10000	<1000	306000	7000	10500 J	<1000	NS	25	1850
	2/16/2010	<2000	12000	<10000	1040	284000	6000	23000 J	<1000	3005	45	290
	8/23/2010	<2000	17000	<10000	1170	289000	5000	13600 J	<1000	2565	20	580
	2/21/2011	<2000	<10000	<10000	<1000	271000	6000	21300 J	<1000	3500	25	920
	8/24/2011	<2000	<20000	<30	1000	242000	5000	12500	<100	3686	33	480
MW-3AS	8/19/2009	20000	38000	<10000	6490	368000	14000	12200 J	<1000	NS	600	1480
	2/16/2010	15000	38000	40 J	7500	435000	19000	NS	<1000	102875	400	610
	8/23/2010	9200	44000	50 J	6370	313000	8000	<250000	<1000	72450	700	2060
	2/21/2011	8200	37000	<10000	6840	423000	12000	6400 J	<1000	176000	380	2690
	8/24/2011	<2000	27000	<30	3120	159000	7000	<5000	<100	72450	550	3190
MW-3D	8/19/2009	<2000	12000	50 J	<1000	63000	14000	14000 J	<1000	NS	<1	1680
	2/16/2010	<2000	10000	70 J	<1000	63000	9000	12200 J	<1000	240	17	1190
	8/23/2010	<2000	16000	80 J	1020	66000	8000	8400 J	<1000	<300	3.2	860
	2/21/2011	<2000	16000	80 J	<1000	63000	9000	<250000	<1000	<300	4.7	4910
	8/24/2011	<2000	<20000	80 J	<300	64000	7000	10500	<100	96	1.4	1520
MW-6D	8/19/2009	<2000	11000	<10000	1610	261000	19000	165000	<1000	NS	10	1910
	2/16/2010	<2000	11000	<10000	2140	269000	23000	21300 J	<1000	911	18	890
	8/23/2010	2000	17000	<10000	2080	259000	16000	20400	<1000	589	18	1620
	2/21/2011	<2000	13000	<10000	1920	259000	22000	14400 J	<1000	888	13	2680
	8/24/2011	<2000	<20000	<30	1820	234000	22000	12400	<100	796	<1	360
MW-17	8/19/2009	<2000	<10000	90 J	<1000	53000	5000	10300 J	<1000	5745	260	1240
	2/16/2010	3400	<10000	130 J	<1000	59000	7000	28700 J	<1000	3115	100	360
	8/23/2010	<2000	<10000	60 J	<1000	64000	6000	<250000	<1000	2316	160	600
	2/21/2011	<2000	<10000	140 J	<1000	59000	6000	5600 J	<1000	3356	150	1400
	8/24/2011	<2000	<20000	110 J	<300	59000	6000	8900	<100	45140	70	740
MW-18S	8/19/2009	<2000	19000	<10000	4690	104000	11000	11400 J	<1000	17675	210	1060
	2/16/2010	2600	13000	<10000	5800	116000	5000	<250000	<1000	20075	210	3180
	8/23/2010	11000	38000	80 J	8770	81000	8000	<250000	<1000	23420	950	8210
	2/21/2011	5500	19000	<10000	4740	105000	6000	<250000	<1000	24320	150	1110
	8/24/2011	<2000	<20000	80 J	5020	96000	8000	<5000	<100	26950	190	830
MW-18D	2/16/2010	<2000	11000	<10000	1090	76000	10000	9900 J	<1000	161	3.4	1930
	2/21/2011	<2000	<10000	<10000	<1000	74000	5000	7200 J	<1000	452	2.4	950
G-13	8/23/2010	<2000	<10000	250 J	1930	72000	14000	18800	<100	6441	14	590
	8/24/2011	<2000	<20000	140 J	1400	47000	10000	16700	<100	5104	21	250

NOTE: Microseeps samples for MW-2A were unable to acieve sufficient vial pressure in the field. Samples were diluted two times to achieve results.

RICHARDSON SMITH GARDNER & ASSOCIATES
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TABLE 2
Monitored Natural Attenuation Summary

Date: 3/9/2012
By: MG

	Date	Carbon Dioxide (ug/l)	ORP (mv)	Dissolved Methane (ug/l)	Ethane (ug/l)	Ethene (ug/l)	Hydrogen (nM)	Lactic Acid (mg/l)	Acetic Acid (mg/l)	Propionic Acid (mg/l)	Butyric Acid (mg/l)	Pyruvic Acid (mg/l)
MW-2A	8/19/2009	230000	-62.7	6000	<0.010	0.043	1.2	<0.100	<0.070	0.140	<0.070	<0.070
	2/16/2010	292000	60.6	1500	0.091	0.029	<0.600	<0.100	<0.070	<0.070	<0.070	<0.070
	8/23/2010	72000	-26.7	5900	0.043	0.13	1.2	0.170	<0.070	<0.050	<0.050	<0.150
	2/21/2011*	93000	-48.8	<0.015	<0.010	<0.010	<0.600	<0.100	<0.070	<0.050	<0.050	<0.150
	8/24/2011	60000	-53.6	8800	<0.010	<0.010	3.5	0.260	0.110	0.079	<0.050	<0.15
MW-2AD	8/19/2009	210000	43.1	410	0.098	0.38	1.1	0.160	<0.070	0.140	<0.070	<0.070
	2/16/2010	200000	91.1	780	0.12	1	1.1	0.110	<0.070	<0.070	<0.070	<0.070
	8/23/2010	171000	77.9	340	0.12	0.36	1.3	0.140	<0.070	<0.050	0.054	<0.150
	2/21/2011	118000	40.7	340	0.13	0.15	2	0.260	<0.070	<0.050	<0.050	<0.150
	8/24/2011	95000	34.2	670	0.054	0.1	3.4	0.160	0.086	0.078	<0.050	<0.15
MW-3AS	8/19/2009	168000	-18.5	6300	2.2	<0.010	5.3	<0.100	0.079	0.170	<0.070	<0.070
	2/16/2010	768000	42.4	5700	0.8	0.12	0.87	<0.100	<0.070	<0.070	<0.070	<0.070
	8/23/2010	427000	67.3	800	0.57	0.042	1.1	0.160	<0.070	<0.050	<0.050	<0.150
	2/21/2011	561000	-35	9000	1.05	<0.010	1.3	<0.100	<0.070	<0.050	0.100	<0.150
	8/24/2011	215000	-57.3	1400	0.27	0.14	4.2	0.280	0.100	0.074	<0.050	<0.15
MW-3D	8/19/2009	112000	504.2	2800	<0.010	<0.010	1	<0.100	<0.070	0.150	<0.070	<0.070
	2/16/2010	123000	231.1	3000	<0.010	<0.010	0.67	<0.100	<0.070	<0.070	<0.070	<0.070
	8/23/2010	84000	585.3	3400	<0.010	<0.010	1.1	0.150	<0.070	<0.050	<0.050	<0.150
	2/21/2011	65000	235.6	3300	<0.010	<0.010	0.79	0.230	<0.070	<0.050	0.100	<0.150
	8/24/2011	21000	353.6	3000	<0.010	0.03	5.5	0.220	<0.070	0.054	<0.050	<0.15
MW-6D	8/19/2009	390000	86.7	180	0.27	0.036	1.3	<0.100	<0.070	0.140	<0.070	<0.070
	2/16/2010	421000	95.7	93	0.13	<0.010	<0.600	<0.100	<0.070	<0.070	<0.070	<0.070
	8/23/2010	314000	92.9	200	0.33	0.049	1	0.140	<0.070	<0.050	<0.050	<0.150
	2/21/2011	278000	144.4	120	0.15	0.013	<0.600	0.210	<0.070	<0.050	0.110	<0.150
	8/24/2011	26200	147.1	98	0.46	0.12	4.9	0.110	<0.070	0.062	<0.050	<0.15
MW-17	8/19/2009	92000	186.8	830	0.012	<0.010	1.1	0.250	0.072	0.160	<0.070	<0.070
	2/16/2010	75000	122.5	730	<0.010	<0.010	<0.600	<0.100	<0.070	<0.070	<0.070	<0.070
	8/23/2010	122000	324.5	1300	<0.010	0.013	1.4	0.130	<0.070	<0.050	<0.050	<0.150
	2/21/2011	52000	164.3	1400	<0.010	<0.010	0.79	0.240	<0.070	<0.050	0.100	<0.150
	8/24/2011	68000	464.9	2000	<0.010	<0.010	1.5	0.220	<0.070	0.067	<0.050	<0.15
MW-18S	8/19/2009	124000	12	4100	0.081	0.02	1.6	0.110	<0.070	0.140	<0.070	<0.070
	2/16/2010	82000	56.5	2900	0.018	0.011	<0.600	0.230	0.079	<0.070	<0.070	<0.070
	8/23/2010	75000	10.2	4700	0.26	0.054	1.1	0.210	<0.070	<0.050	<0.050	<0.150
	2/21/2011	72000	-36.3	4000	0.062	0.015	1.1	0.350	0.084	<0.050	<0.050	<0.150
	8/24/2011	75000	-36	4400	0.05	0.049	4.5	0.380	0.11	0.083	<0.050	<0.15
MW-18D	2/16/2010	55000	154.4	88	<0.010	<0.010	<0.600	0.190	<0.070	<0.070	<0.070	<0.070
	2/21/2011	43000	106.5	46	<0.010	0.027	1.3	<0.100	<0.070	<0.050	<0.050	<0.150
G-13	8/23/2010	79000	-12.4	1000	<0.010	0.015	1.3	<0.100	<0.070	<0.050	<0.050	<0.150
	8/24/2011	76000	45.4	30	<0.010	0.026	2.7	<0.100	<0.070	0.052	<0.050	<0.150

RICHARDSON SMITH GARDNER & ASSOCIATES
ENGINEERING & GEOLOGICAL SERVICES

TABLE 2
Monitored Natural Attenuation Summary

Date: 3/9/2012
By: MG

	Date	i-Pentanoic Acid (mg/l)	Pentanoic Acid (mg/l)	i-Hexanoic Acid (mg/l)	Hexanoic Acid (mg/l)	pH (std units)	Specific Conductivity (umhos/cm)	Temperature (degrees C)
MW-2A	8/19/2009	<0.070	<0.070	<0.100	<0.100	6.00	249	24.00
	2/16/2010	<0.070	<0.070	<0.100	<0.100	6.78	278	12.55
	8/23/2010	<0.150	<0.070	<0.050	<0.050	6.05	268	20.24
	2/21/2011*	<0.150	<0.070	<0.050	<0.050	6.23	212	11.67
	8/24/2011	<0.15	<0.070	<0.050	<0.050	6.07	237	21.43
MW-2AD	8/19/2009	<0.070	<0.070	<0.100	<0.100	6.20	526	19.00
	2/16/2010	<0.070	<0.070	<0.100	<0.100	6.97	544	16.55
	8/23/2010	<0.150	<0.070	<0.050	<0.050	6.27	547	15.98
	2/21/2011	<0.150	<0.070	<0.050	<0.050	6.32	478	14.78
	8/24/2011	<0.15	<0.070	<0.050	<0.050	6.13	427	16.85
MW-3AS	8/19/2009	<0.070	<0.070	<0.100	<0.100	6.00	601	20.00
	2/16/2010	<0.070	<0.070	<0.100	<0.100	6.92	852	13.29
	8/23/2010	<0.150	<0.070	<0.050	<0.050	6.20	713	17.33
	2/21/2011	<0.150	<0.070	<0.050	<0.050	6.32	660	13.06
	8/24/2011	<0.15	<0.070	<0.050	<0.050	6.40	378	20.20
MW-3D	8/19/2009	<0.070	<0.070	<0.100	<0.100	5.70	142	19.00
	2/16/2010	<0.070	<0.070	<0.100	<0.100	6.55	154	14.86
	8/23/2010	<0.150	<0.070	<0.050	<0.050	5.59	155	16.69
	2/21/2011	<0.150	<0.070	<0.050	<0.050	5.95	146	14.02
	8/24/2011	<0.15	<0.070	<0.050	<0.050	5.82	166	18.25
MW-6D	8/19/2009	<0.070	<0.070	<0.100	1.100	5.80	442	19.00
	2/16/2010	<0.070	<0.070	<0.100	<0.100	6.75	617	14.99
	8/23/2010	<0.150	<0.070	<0.050	<0.050	5.95	589	15.99
	2/21/2011	<0.150	<0.070	<0.050	<0.050	6.00	546	13.49
	8/24/2011	<0.15	<0.070	<0.050	<0.050	5.70	533	16.21
MW-17	8/19/2009	<0.070	<0.070	<0.100	<0.100	5.70	133	19.00
	2/16/2010	<0.070	<0.070	<0.100	<0.100	6.53	131	14.41
	8/23/2010	<0.150	<0.070	<0.050	<0.050	5.88	142	17.12
	2/21/2011	<0.150	<0.070	<0.050	<0.050	6.03	126	12.80
	8/24/2011	<0.15	<0.070	<0.050	<0.050	5.76	142	19.80
MW-18S	8/19/2009	<0.070	<0.070	<0.100	<0.100	6.30	258	21.00
	2/16/2010	<0.070	<0.070	<0.100	<0.100	7.04	269	12.96
	8/23/2010	<0.150	<0.070	<0.050	<0.050	6.60	248	18.20
	2/21/2011	<0.150	<0.070	<0.050	<0.050	6.48	226	12.18
	8/24/2011	<0.15	<0.070	<0.050	<0.050	6.58	221	16.49
MW-18D	2/16/2010	<0.070	<0.070	<0.100	<0.100	6.63	166	9.65
	2/21/2011	<0.150	<0.070	<0.050	<0.050	6.16	143	13.62
G-13	8/23/2010	<0.150	<0.070	<0.050	<0.050	6.05	18.22	224.00
	8/24/2011	<0.150	<0.070	<0.050	<0.050	5.67	127	17.82

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TABLE 3
Proposed Sampling Schedule

Date: 3/9/2012
By: MG

Well	Detection Monitoring	Assessment Monitoring*	pH	DO	ORP	Turbidity	Temperature	Specific Conductivity	Sulfide	Iron	Chloride	Nitrate	TOC	COD
MW-1	semi		semi	semi	semi	semi	semi	semi	NM	NM	NM	NM	NM	NM
MW-2A	semi	*	semi	semi	semi	semi	semi	semi	A-spring	A-spring	A-spring	A-spring	A-spring	A-spring
MW-2AD	semi	*	semi	semi	semi	semi	semi	semi	semi	semi	semi	semi	semi	semi
MW-3A	semi		semi	semi	semi	semi	semi	semi	NM	NM	NM	NM	NM	NM
MW-3AS	semi	*	semi	semi	semi	semi	semi	semi	semi	semi	semi	semi	semi	semi
MW-3D	semi	*	semi	semi	semi	semi	semi	semi	semi	semi	semi	semi	semi	semi
MW-6D	semi	*	semi	semi	semi	semi	semi	semi	A-spring	A-spring	A-spring	A-spring	A-spring	A-spring
MW-7D	semi		semi	semi	semi	semi	semi	semi	NM	NM	NM	NM	NM	NM
MW-15R	semi	*	semi	semi	semi	semi	semi	semi	NM	NM	NM	NM	NM	NM
MW-16A	semi	*	semi	semi	semi	semi	semi	semi	NM	NM	NM	NM	NM	NM
MW-17	semi	*	semi	semi	semi	semi	semi	semi	A-spring	A-spring	A-spring	A-spring	A-spring	A-spring
MW-18S	semi	*	semi	semi	semi	semi	semi	semi	A-spring	A-spring	A-spring	A-spring	A-spring	A-spring
MW-18D	A-spring		A-spring	A-spring	A-spring	A-spring	A-spring	A-spring	A-spring	A-spring	A-spring	A-spring	A-spring	A-spring
G-13	A-fall		A-fall	A-fall	A-fall	A-fall	A-fall	A-fall	A-fall	A-fall	A-fall	A-fall	A-fall	A-fall
G13D	A-fall		A-fall	A-fall	A-fall	A-fall	A-fall	A-fall	A-fall	NM	NM	NM	NM	NM

Well	Dissolved Methane	VFA	CO2	Hydrogen	BOD	ethane/ ethene
MW-1	NM	NM	NM	NM	NM	NM
MW-2A	3	3	3	3	3	3
MW-2AD	3	3	3	3	3	3
MW-3A	NM	NM	NM	NM	NM	NM
MW-3AS	3	3	3	3	3	3
MW-3D	3	3	3	3	3	3
MW-6D	3	3	3	3	3	3
MW-7D	NM	NM	NM	NM	NM	NM
MW-15R	NM	NM	NM	NM	NM	NM
MW-16A	NM	NM	NM	NM	NM	NM
MW-17	3	3	3	3	3	3
MW-18S	3	3	3	3	3	3
MW-18D	3	3	3	3	3	3
G-13	3	3	3	3	3	3
G13D	NM	NM	NM	NM	NM	NM

NOTE:
* Assesment monitoring is performed annually with detected parameters analyzed semi-annually
A-spring = well sampled annually spring event only
A- fall = well sampled annually fall event only
NM = Not Monitored
3 = well sampled every third year(both sampling events)