### **Kevin Schneider**

From: Kevin Schneider

**Sent:** Friday, May 10, 2013 2:35 PM **To:** Kaysen.Michelle@epamail.epa.gov

Cc: Bhooma Sundar (Sundar.Bhooma@epamail.epa.gov); GARY CYGAN

(Cygan.Gary@epamail.epa.gov); Dave Favero; Scott Cormier; Clifford Yantz

**Subject:** RACER Trust - Dort Hwy Land - GWI Update - 4th Quarter Results

**Attachments:** GWI Update - 4th Quarter Results 2013.pdf

#### Michelle,

The analytical results for the fourth quarterly sampling event for the RACER Dort Highway Land site (#12960) is attached. Sampling was conducted on March 14, 2013 for the monitoring wells, except monitoring well MW-4, which was sampled on April 10, 2013. The water in monitoring well MW-4 was frozen during the March sampling so MW-4 was sampled once the well thawed. Tables 1 and 2 provide summaries of the water levels and analytical results, respectively, for the site for the four sampling events. Figure 7 provides the current groundwater contours and exceedances (Figures 1 through 4 were provided in the original GWI Report and Figures 5 and 6 were provided in the second and third quarterly sampling event updates, respectively).

The groundwater elevations range from 828.40 feet above mean sea level (ft aMSL) at MW-8 to 821.36 ft aMSL at MW-2. The groundwater level for MW-4 from April 10, 2013 was similar to the level of the ice in the well on March 14, 2013.

The groundwater contours provide an indication of the groundwater flow direction at the Site, and indicate a flow pattern originating from the southeastern portion of the Site with a general overall westerly flow direction. The groundwater contours during this event indicate a similar flow pattern as observed previously.

The samples were analyzed for arsenic, lead, selenium, and silver during this round of sampling. Arsenic and lead were detected in four of the five monitoring wells; arsenic and lead remained undetected in monitoring well MW-4. Arsenic was detected above the Michigan Department of Environmental Quality (MDEQ) nonresidential drinking water and groundwater surface water interface (GSI) criteria of 0.01 mg/L at MW-2, MW2-1, and MW-7. The total arsenic detections ranged from 0.007 mg/L at MW-9 to 0.027 mg/L at MW-2. The dissolved arsenic detections ranged from 0.005 mg/L at MW-7 to 0.011 mg/L at MW2-1.

Lead was detected above the MDEQ nonresidential drinking water criterion of 0.004 mg/L at MW-2, MW2-1, MW-7 and MW-9 and the GSI criterion of 0.014 mg/L at MW-7 and MW-9. The total lead detections ranged from 0.005 mg/L at MW-2 to 0.021 mg/L at MW-9 (Co-Located). The dissolved lead detections ranged from 0.006 mg/L at MW-2 to 0.012 mg/L at MW-9 (Co-Located).

Silver was detected above the MDEQ GSI criterion of 0.0002 mg/L at MW-9 at a concentration of 0.0003 mg/L. This is the first time that silver was detected in the monitoring wells during the Groundwater Investigation.

The results are generally similar to the June, September, and December 2012 monitoring event results, with the exception of the lead detections which were slightly elevated compared to previous sampling events. The lead detections appear to be due to elevated turbidity during sampling. The analytical results for the dissolved samples were generally lower compared with the analytical results for the total samples.

We believe the data is consistent enough with previous data to complete the Environmental Indicator (EI) Migration of Contaminated Groundwater Under Control (CA750) form and submit that to you by the end of May, the scheduled due date.

Please let us know if you have any questions or comments and have a wonderful day,

### Kevin Schneider



### **Kevin Schneider**

**SCIENTIST** 

### O'BRIEN & GERE

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Table 1
RACER Trust- Dort Hwy Land
Depth to Groundwater Levels in Monitoring Wells

Elev. (ft) *         Elev. (ft)         Elev. (ft)         Water (ft)         E           MW-1         831.76         825.69         819.69         27-Jun-12         6.06         27-Sep-12         8.96         14-Mar-13         6.76         14-Mar-13         6.76         14-Mar-13         7.09         27-Sep-12         9.05         19-Dec-12         9.08         14-Mar-13         7.95         14-Mar-13         7.95         19-Dec-12         10.56         19-Dec-12         10.56         19-Dec-12         12.25         14-Mar-13         9.94	Water Elev. (ft) 825.70 822.80 825.00  822.22 820.26 820.23 821.36  823.64 821.77 820.08 822.39
MW-1       831.76       825.69       819.69       27-Jun-12       6.06         27-Sep-12       8.96       14-Mar-13       6.76         MW-2       829.31       814.64       806.84       27-Jun-12       7.09         27-Sep-12       9.05       19-Dec-12       9.08       14-Mar-13       7.95         MW2-1       832.33       821.05       812.35       27-Jun-12       8.69         27-Sep-12       10.56       19-Dec-12       12.25         14-Mar-13       9.94	825.70 822.80 825.00 822.22 820.26 820.23 821.36 823.64 821.77 820.08 822.39
MW-2 829.31 814.64 806.84 27-Jun-12 7.09 27-Sep-12 9.05 19-Dec-12 9.08 14-Mar-13 7.95 MW2-1 832.33 821.05 812.35 27-Jun-12 8.69 27-Sep-12 10.56 19-Dec-12 12.25 14-Mar-13 9.94	822.80 825.00 822.22 820.26 820.23 821.36 823.64 821.77 820.08 822.39
MW-2 829.31 814.64 806.84 27-Jun-12 7.09 27-Sep-12 9.05 19-Dec-12 9.08 14-Mar-13 7.95 MW2-1 832.33 821.05 812.35 27-Jun-12 8.69 27-Sep-12 10.56 19-Dec-12 12.25 14-Mar-13 9.94	825.00 822.22 820.26 820.23 821.36 823.64 821.77 820.08 822.39
MW-2 829.31 814.64 806.84 27-Jun-12 7.09 27-Sep-12 9.05 19-Dec-12 9.08 14-Mar-13 7.95 MW2-1 832.33 821.05 812.35 27-Jun-12 8.69 27-Sep-12 10.56 19-Dec-12 12.25 14-Mar-13 9.94	822.22 820.26 820.23 821.36 823.64 821.77 820.08 822.39
MW2-1 832.33 821.05 812.35 27-Jun-12 8.69 27-Sep-12 10.56 19-Dec-12 12.25 14-Mar-13 9.94	820.26 820.23 821.36 823.64 821.77 820.08 822.39
MW2-1 832.33 821.05 812.35 27-Jun-12 8.69 27-Sep-12 10.56 19-Dec-12 12.25 14-Mar-13 9.94	820.26 820.23 821.36 823.64 821.77 820.08 822.39
MW2-1 832.33 821.05 812.35 27-Jun-12 8.69 27-Sep-12 10.56 19-Dec-12 12.25 14-Mar-13 9.94	820.23 821.36 823.64 821.77 820.08 822.39
MW2-1 832.33 821.05 812.35 27-Jun-12 8.69 27-Sep-12 10.56 19-Dec-12 12.25 14-Mar-13 9.94	821.36 823.64 821.77 820.08 822.39
MW2-1 832.33 821.05 812.35 27-Jun-12 8.69 27-Sep-12 10.56 19-Dec-12 12.25 14-Mar-13 9.94	821.77 820.08 822.39
27-Sep-12 10.56 19-Dec-12 12.25 14-Mar-13 9.94	821.77 820.08 822.39
19-Dec-12 12.25 14-Mar-13 9.94	820.08 822.39
14-Mar-13 9.94	822.39
MW 2 924 00 916 91 907 91 27 Jun 12 5 20	
MAN 2   924 00   916 91   907 91   27 Jun 12   520	
	819.69
	820.67
14-Mar-13 2.06	822.93
	818.43
	818.60
	821.56
10-Apr-13 2.25	821.78
MW-5 829.58 811.43 803.43 27-Jun-12 21.00	808.58
	821.82
	823.49
MW-6 828.63 816.25 808.25 27-Jun-12 3.95	824.68
27-Sep-12 7.20	821.43
14-Mar-13 6.55	822.08
	824.69
	823.16
	823.24
14-Mar-13 10.56	823.64
NAME 0 022 22 022 022 024 024	027.02
	827.83
	825.07
14-Mar-13 4.82	828.40
MW-9 835.45 817.48 809.98 27-Jun-12 8.05	827.40
	827.32
	828.33
	828.18

#### <u>Notes</u>

<sup>\*</sup> Casing elevations were provided by CTI Engineers and are in feet relative to National Geodetic Vertical Datum

		T	MDFC	) Criteria				T													
			Groundwater	Non-Residential Groundwater Volatilization to		MV	/-1			ſ		(00-10	CATED)	мw	-2	(00-10	CATED)	I		(Du	ıp 1)
		Residential Drinking Water	Surface Water Interface Criteria &	Indoor Air Inhalation Criteria	Groundwater Contact	28-Ju	m-12	28-,Ju	n-12	27-Se	ep-12		ep-12	19-D	ec-12	19-D		14-Ma	ar-13		Iar-13
Parameter		Criteria & RBSLs	RBSLs	& RBSLs	Criteria & RBSLs	Dissolved	Total														
Metals																					
Arsenic	mg/L	0.01 (A)	0.01	NLV	4.3	<0.002	<0.002	0.027	0.028	0.035	0.034	0.034	0.035	0.031	0.032	0.030	0.035	0.009	0.027	0.010	0.027
Barium	mg/L	2 (A)	0.67 (G,X)	NLV	14000	0.084	0.098	0.042	0.045												
Lead (Total)	mg/L	0.004 (L)	0.014 (G,X)	NLV	ID	<0.003	<0.003	<0.003	<0.003	<0.003	0.004	<0.003	0.004	<0.003	<0.003	<0.003	<0.003	0.006	0.005	0.008	0.009
Silver	mg/L	0.034	0.0002 (M); 0.00006	NLV	1.50E+06	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002
SVOCs			•	_	•		1		ı		T.		T								
Dimethyl phthalate	μg/L	210,000	NA	NLV	4.2E+06 (S)		10*		5*												
VOCs																					
Bromodichloromethane	μg/L	80 (A,W)	ID	37,000	14,000		<1		<1												
Chloroform	μg/L	80 (A,W)	350	1.80E+05	1.50E+05		<1		<1												
1,1-Dichloroethane	μg/L	2,500	740	2.30E+06	2.40E+06		<1		<1												

Notes:

Exceeds residential drinking water criteria or both GSI and drinking water criteria Exceeds GSI protection criteria only

\* Compound also found in associated method blank.

(A) Criterion is the state of Michigan drinking water standard.

(G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final

chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water

(S) Criterion defaults to the hazardous substance-specific water solubility limit.

(L) Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(10) of the NREPA,

and are not calculated using the algorithms and assumptions specified in pathway-specific rules.

(W) Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 µg/L.

(X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.

(NLV) Means hazardous substance is not likely to volatilize under most conditions.

(ID) Means insufficient data to develop criterion.

(--) Not analyzed.

			MDEQ	Criteria																	
		Residential	Groundwater Surface Water	Non-Residential Groundwater Volatilization to Indoor Air				I	MW	2-1 		Í		MW-3		I		MW-4		I	
		Drinking Water	0		Groundwater Contact	28-Ju	m-12	27-S	ep-12	19-D	ec-12	14-M	[ar-13	29-Jun-12	29-Jun-12	27-S	ep-12	19-D	ec-12	10-A	pr-13
Parameter		Criteria & RBSLs	RBSLs	& RBSLs	Criteria & RBSLs	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Total	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total
Metals																					
Arsenic	mg/L	0.01 (A)	0.01	NLV	4.3	0.020	0.018	0.026	0.032	0.020	0.019	0.011	0.010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Barium	mg/L	2 (A)	0.67 (G,X)	NLV	14000	0.081	0.083							0.094	0.135						
Lead (Total)	mg/L	0.004 (L)	0.014 (G,X)	NLV	ID	<0.003	<0.003	<0.003	0.004	<0.003	<0.003	0.007	0.008	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Silver	mg/L	0.034	0.0002 (M); 0.00006	NLV	1.50E+06	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005
SVOCs									<u> </u>					1							
Dimethyl phthalate	μg/L	210,000	NA	NLV	4.2E+06 (S)		8*							<5	<5						
VOCs				<u> </u>					l e	l e		<u> </u>		1	ı			1			
Bromodichloromethane	μg/L	80 (A,W)	ID	37,000	14,000		<1							<1	<1						
Chloroform	μg/L	80 (A,W)	350	1.80E+05	1.50E+05		<1							<1	<1						
1,1-Dichloroethane	μg/L	2,500	740	2.30E+06	2.40E+06	<del></del>	<1							6	<1						

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Notes:

Exceeds residential drinking water criteria or both GSI and drinking water criteria Exceeds GSI protection criteria only

- (A) Criterion is the state of Michigan drinking water standard.
- (G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final
- chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water
- (S) Criterion defaults to the hazardous substance-specific water solubility limit.
- (L) Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(10) of the NREPA,
- and are not calculated using the algorithms and assumptions specified in pathway-specific rules.

  (W) Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with
- the Michigan drinking water standard of 80 µg/L.
- (X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.
- (NLV) Means hazardous substance is not likely to volatilize under most conditions.
- (ID) Means insufficient data to develop criterion.
- (--) Not analyzed.

<sup>\*</sup> Compound also found in associated method blank.

	MDEQ Criteria																		
			Groundwater	Non-Residential Groundwater Volatilization to		MW-5	MW-6			(CO-LO	CATED	мw	-7	Ī		ı		MV	W-8 (DUP-1)
		Residential	Surface Water	Indoor Air	C	29-Jun-12	2-Jul-12	28-Ju	n_12	28-Ju		27-8	ер-12	19-D	ec-12	14-M	[ar-13	2-11	ul-12
Parameter		Drinking Water Criteria & RBSLs	Interface Criteria & RBSLs	& RBSLs	Groundwater Contact Criteria & RBSLs	Total	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Total	Total
Metals		CITICITA CE TEBOLO	TLD 0.20	u need	CITCITA CITABOLO														
Arsenic	mg/L	0.01 (A)	0.01	NLV	4.3	<0.002	<0.002	0.023	0.024	0.024	0.029	0.030	0.028	0.010	0.010	0.005	0.011	<0.002	<0.002
Barium	mg/L	2 (A)	0.67 (G,X)	NLV	14000	0.054	0.046	0.090	0.092	0.090	0.112							0.105	0.111
Lead (Total)	mg/L	0.004 (L)	0.014 (G,X)	NLV	ID	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.009	0.020	<0.003	<0.003
Silver	mg/L	0.034	0.0002 (M); 0.00006	NLV	1.50E+06	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005
SVOCs																			
Dimethyl phthalate	μg/L	210,000	NA	NLV	4.2E+06 (S)	8*	<5		<5		<5							8*	10*
VOCs			I	I			I	I	ı								I	I	
Bromodichloromethane	μg/L	80 (A,W)	ID	37,000	14,000	<1	<1		<1		<1							<1	<1
Chloroform	μg/L	80 (A,W)	350	1.80E+05	1.50E+05	<1	<1		<1		<1							<1	<1
1,1-Dichloroethane	μg/L	2,500	740	2.30E+06	2.40E+06	<1	<1		<1		<1							<1	<1

Notes:

Exceeds residential drinking water criteria or both GSI and drinking water criteria Exceeds GSI protection criteria only

\* Compound also found in associated method blank.

(A) Criterion is the state of Michigan drinking water standard.

(G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final

chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water

(S) Criterion defaults to the hazardous substance-specific water solubility limit.

(L) Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(10) of the NREPA,

and are not calculated using the algorithms and assumptions specified in pathway-specific rules.

(W) Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with

the Michigan drinking water standard of 80  $\mu\text{g}/\text{L}.$ 

(X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.

(NLV) Means hazardous substance is not likely to volatilize under most conditions.

(ID) Means insufficient data to develop criterion.

(--) Not analyzed.

			MDFC	Criteria															
				Non-Residential Groundwater								MW	-9						
		Residential	Groundwater Surface Water	Volatilization to Indoor Air						(DU	P-1)			(DU	P-1)			(CO-LO	CATED)
		Drinking Water	Interface Criteria &		<b>Groundwater Contact</b>	27-Ju	n-12	27-Se	p-12	27-Se	ep-12	19-D	ec-12	19-De		14-M		14-M	ar-13
Parameter		Criteria & RBSLs	RBSLs	& RBSLs	Criteria & RBSLs	Dissolved	Total	Dissolved	Total	Dissolved	Total								
Metals							ı												
Arsenic	mg/L	0.01 (A)	0.01	NLV	4.3	<0.002	0.002	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	<0.002	0.006	<0.002	0.007
Barium	mg/L	2 (A)	0.67 (G,X)	NLV	14000	0.076	0.086												
Lead (Total)	mg/L	0.004 (L)	0.014 (G,X)	NLV	ID	0.004	0.006	<0.003	0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.011	0.018	0.012	0.021
Silver	mg/L	0.034	0.0002 (M); 0.00006	NLV	1.50E+06	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	0.0003	<0.0002	<0.0002
SVOCs																			
Dimethyl phthalate	μg/L	210,000	NA	NLV	4.2E+06 (S)		<5												
VOCs			1				1					ı							
Bromodichloromethane	μg/L	80 (A,W)	ID	37,000	14,000		<1												
Chloroform	μg/L	80 (A,W)	350	1.80E+05	1.50E+05		<1												
1,1-Dichloroethane	μg/L	2,500	740	2.30E+06	2.40E+06		<1												

Notes:

Exceeds residential drinking water criteria or both GSI and drinking water criteria Exceeds GSI protection criteria only

(A) Criterion is the state of Michigan drinking water standard.

(G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final

chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water

(S) Criterion defaults to the hazardous substance-specific water solubility limit.

(L) Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(10) of the NREPA,

and are not calculated using the algorithms and assumptions specified in pathway-specific rules.

(W) Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with

the Michigan drinking water standard of 80 μg/L.

(X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.

(NLV) Means hazardous substance is not likely to volatilize under most conditions. (ID) Means insufficient data to develop criterion.

(--) Not analyzed.

<sup>\*</sup> Compound also found in associated method blank.

			MDEC	) Criteria												
				Non-Residential Groundwater		EB-1	EB-1	EB-1	EB-1	FB-1	FB-1	FB-1	FB-1	TB-1	TB-2	тв-з
		Residential	Groundwater Surface Water	Volatilization to Indoor Air		(Equip Blank)	(Equip Blank)	(Equip Blank)	(Equip Blank)	(Field Blank)	(Field Blank)	(Field Blank)	(Field Blank)	(Trip Blank)	(Trip Blank)	(Trip Blank)
		<b>Drinking Water</b>	Interface Criteria &		<b>Groundwater Contact</b>		27-Sep-12	19-Dec-12	14-Mar-13	2-Jul-12	27-Sep-12	19-Dec-12	14-Mar-13	28-Jun-12	29-Jun-12	2-Jul-12
Parameter		Criteria & RBSLs	RBSLs	& RBSLs	Criteria & RBSLs	Total	Total	Total	Total							
Metals			T	T			T			<u> </u>			I	ı		1
Arsenic	mg/L	0.01 (A)	0.01	NLV	4.3	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
Barium	mg/L	2 (A)	0.67 (G,X)	NLV	14000	<0.005				<0.005						
Lead (Total)	mg/L	0.004 (L)	0.014 (G,X)	NLV	ID	<0.003	0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
Silver	mg/L	0.034	0.0002 (M); 0.00006	NLV	1.50E+06	<0.0005	<0.0002	<0.0005	<0.0002	<0.0005	<0.0002	<0.0005	<0.0002			
SVOCs																
Dimethyl phthalate	μg/L	210,000	NA	NLV	4.2E+06 (S)	<5				9*						
VOCs																
Bromodichloromethane	μg/L	80 (A,W)	ID	37,000	14,000	2				<1				<1	<1	<1
Chloroform	μg/L	80 (A,W)	350	1.80E+05	1.50E+05	9				<1				<1	<1	5
1,1-Dichloroethane	μg/L	2,500	740	2.30E+06	2.40E+06	<1				<1				<1	<1	<1

Notes:

Exceeds residential drinking water criteria or both GSI and drinking water criteria Exceeds GSI protection criteria only

(A) Criterion is the state of Michigan drinking water standard.

(G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final

chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water

(S) Criterion defaults to the hazardous substance-specific water solubility limit.

(L) Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(10) of the NREPA,

and are not calculated using the algorithms and assumptions specified in pathway-specific rules.

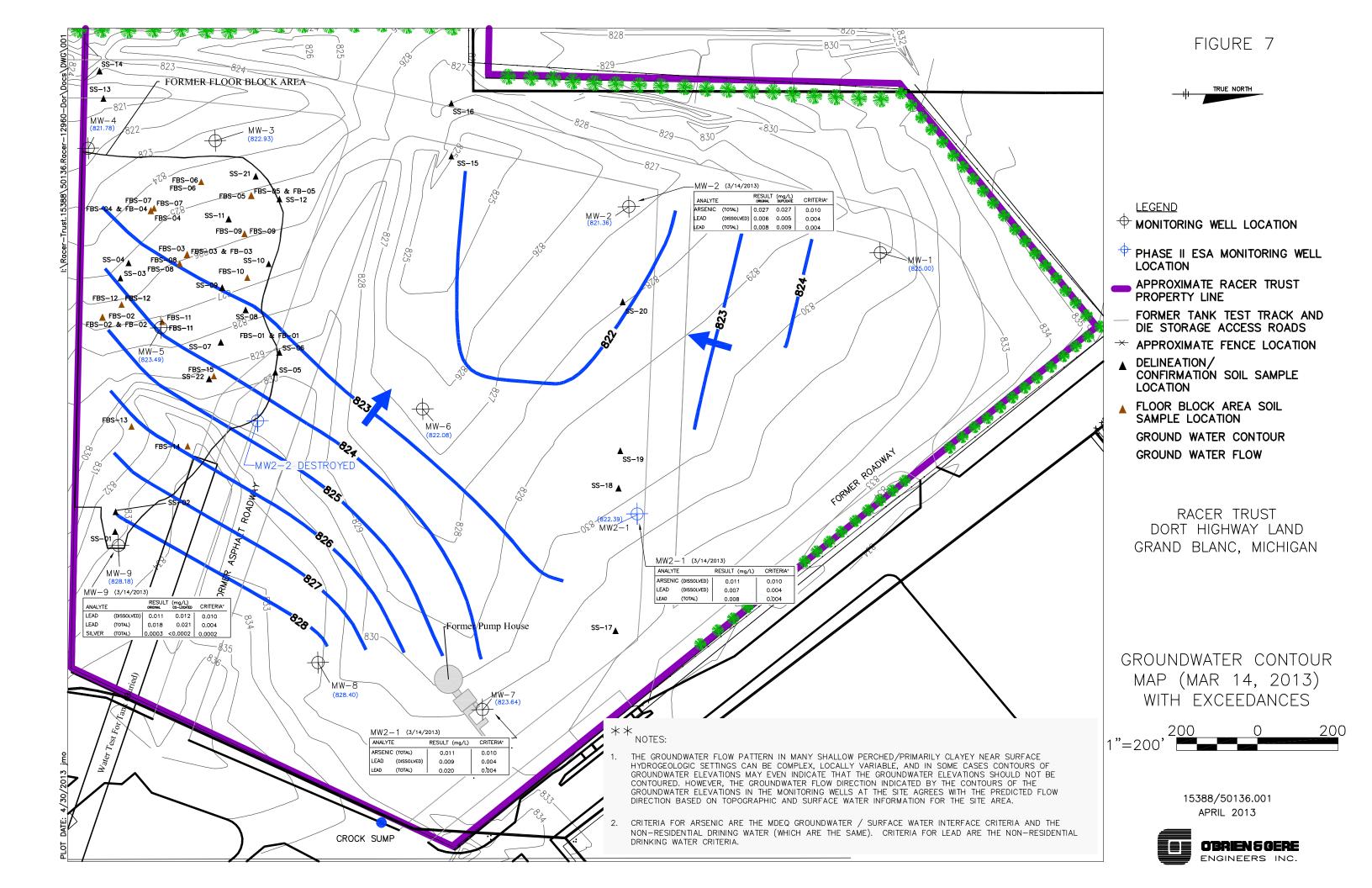
(W) Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 µg/L.

(X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.

(NLV) Means hazardous substance is not likely to volatilize under most conditions.

(ID) Means insufficient data to develop criterion.
(--) Not analyzed.

<sup>\*</sup> Compound also found in associated method blank.





Report ID: S55756.01(01) Generated on 03/22/2013

Report to

Attention: Clifford Yantz O'Brien & Gere Engineers, Inc. 37000 Grand River Ave.

Suite 260

Farmington, MI 48335

Phone: 248-477-5701 FAX: Email: Clifford.Yantz@obg.com

Report produced by

Merit Laboratories, Inc. 2680 East Lansing Drive East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions: Andy Ball (andyball@meritlabs.com) Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S55756.01-S55756.10

Project: RACER Dort Hwy Land Collected Date: 03/14/2013

Submitted Date/Time: 03/15/2013 14:15

Sampled by: Kevin Schneider

P.O. #: 11311199

#### Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

#### Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814) Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak Laboratory Director

Violetta F. Murshall



### Sample Summary (10 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S55756.01	MW-9	Groundwater	03/14/2013 10:10
S55756.02	MW-9 Co-Located	Groundwater	03/14/2013 10:10
S55756.03	MW-7	Groundwater	03/14/2013 11:45
S55756.04	MW-2-1	Groundwater	03/14/2013 13:15
S55756.05	MW-2-1 MS	Groundwater	03/14/2013 13:15
S55756.06	MW-2-1 MSD	Groundwater	03/14/2013 13:15
S55756.07	MW-2	Groundwater	03/14/2013 15:40
S55756.08	FB-1	Quality Control	03/14/2013 15:50
S55756.09	EB-1	Quality Control	03/14/2013 16:15
S55756.10	DUP-1	Groundwater	03/14/2013 00:01



Lab Sample ID: S55756.01 Sample Tag: MW-9

Collected Date/Time: 03/14/2013 10:10

Matrix: Groundwater COC Reference: 79611

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analys	t CAS#	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	03/22/13 01:00	SLR		
Metal Digestion	Completed			3015A	03/22/13 01:00	SLR		
Metals								
Arsenic, Dissolved	Not detected	mg/L	0.002	E200.8	03/22/13 13:37	SLS	7440-38-2	
Arsenic	0.006	mg/L	0.002	E200.8	03/22/13 13:34	SLS	7440-38-2	
Lead, Dissolved	0.011	mg/L	0.003	E200.8	03/22/13 15:38	SLS	7439-92-1	
Lead	0.018	mg/L	0.003	E200.8	03/22/13 15:36	SLS	7439-92-1	
Selenium, Dissolved	Not detected	mg/L	0.005	E200.8	03/22/13 13:37	SLS	7782-49-2	
Selenium	Not detected	mg/L	0.005	E200.8	03/22/13 13:34	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	E200.8	03/22/13 13:37	SLS	7440-22-4	
Silver	0.0003	mg/L	0.0002	E200.8	03/22/13 13:34	SLS	7440-22-4	



Lab Sample ID: S55756.02 Sample Tag: MW-9 Co-Located Collected Date/Time: 03/14/2013 10:10

Matrix: Groundwater COC Reference: 79611

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst CAS # Flags
Extraction / Prep.						
Metal Digestion	Completed			3015A	03/22/13 01:00	SLR
Metal Digestion	Completed			3015A	03/22/13 01:00	SLR
Metals						
Arsenic, Dissolved	Not detected	mg/L	0.002	E200.8	03/22/13 13:43	SLS 7440-38-2
Arsenic	0.007	mg/L	0.002	E200.8	03/22/13 13:40	SLS 7440-38-2
Lead, Dissolved	0.012	mg/L	0.003	E200.8	03/22/13 15:42	SLS 7439-92-1
Lead	0.021	mg/L	0.003	E200.8	03/22/13 15:40	SLS 7439-92-1
Selenium, Dissolved	Not detected	mg/L	0.005	E200.8	03/22/13 13:43	SLS 7782-49-2
Selenium	Not detected	mg/L	0.005	E200.8	03/22/13 13:40	SLS 7782-49-2
Silver, Dissolved	Not detected	mg/L	0.0002	E200.8	03/22/13 13:43	SLS 7440-22-4
Silver	Not detected	mg/L	0.0002	E200.8	03/22/13 13:40	SLS 7440-22-4



Lab Sample ID: S55756.03 Sample Tag: MW-7

Collected Date/Time: 03/14/2013 11:45

Matrix: Groundwater COC Reference: 79611

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS#	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	03/22/13 01:00	SLR		
Metal Digestion	Completed			3015A	03/22/13 01:00	SLR		
Metals								
Arsenic, Dissolved	0.005	mg/L	0.002	E200.8	03/22/13 13:49	SLS	7440-38-2	
Arsenic	0.011	mg/L	0.002	E200.8	03/22/13 13:46	SLS	7440-38-2	
Lead, Dissolved	0.009	mg/L	0.003	E200.8	03/22/13 15:46	SLS	7439-92-1	
Lead	0.020	mg/L	0.003	E200.8	03/22/13 15:44	SLS	7439-92-1	
Selenium, Dissolved	Not detected	mg/L	0.005	E200.8	03/22/13 13:49	SLS	7782-49-2	
Selenium	Not detected	mg/L	0.005	E200.8	03/22/13 13:46	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0002	E200.8	03/22/13 13:49	SLS	7440-22-4	
Silver	Not detected	mg/L	0.0002	E200.8	03/22/13 13:46	SLS	7440-22-4	



Lab Sample ID: S55756.04 Sample Tag: MW-2-1

Collected Date/Time: 03/14/2013 13:15

Matrix: Groundwater COC Reference: 79611

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst CAS# Flags
Extraction / Prep.						
Metal Digestion	Completed			3015A	03/22/13 01:00	SLR
Metal Digestion	Completed			3015A	03/22/13 01:00	SLR
Metals						
Arsenic, Dissolved	0.011	mg/L	0.002	E200.8	03/22/13 14:30	SLS 7440-38-2
Arsenic	0.010	mg/L	0.002	E200.8	03/22/13 13:52	SLS 7440-38-2
Lead, Dissolved	0.007	mg/L	0.003	E200.8	03/22/13 16:14	SLS 7439-92-1
Lead	0.008	mg/L	0.003	E200.8	03/22/13 15:48	SLS 7439-92-1
Selenium, Dissolved	Not detected	mg/L	0.005	E200.8	03/22/13 14:30	SLS 7782-49-2
Selenium	Not detected	mg/L	0.005	E200.8	03/22/13 13:52	SLS 7782-49-2
Silver, Dissolved	Not detected	mg/L	0.0002	E200.8	03/22/13 14:30	SLS 7440-22-4
Silver	Not detected	mg/L	0.0002	E200.8	03/22/13 13:52	SLS 7440-22-4



Lab Sample ID: S55756.05 Sample Tag: MW-2-1 MS

Collected Date/Time: 03/14/2013 13:15

Matrix: Groundwater COC Reference: 79611

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analys	t CAS#	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	03/22/13 01:00	SLR		
Metal Digestion	Completed			3015A	03/22/13 01:00	SLR		
Metals								
Arsenic, Dissolved	0.274	mg/L	0.002	E200.8	03/22/13 14:33	SLS	7440-38-2	
Arsenic	0.278	mg/L	0.002	E200.8	03/22/13 13:55	SLS	7440-38-2	
Lead, Dissolved	0.268	mg/L	0.003	E200.8	03/22/13 16:16	SLS	7439-92-1	
Lead	0.264	mg/L	0.003	E200.8	03/22/13 15:50	SLS	7439-92-1	
Selenium, Dissolved	0.250	mg/L	0.005	E200.8	03/22/13 14:33	SLS	7782-49-2	
Selenium	0.260	mg/L	0.005	E200.8	03/22/13 13:55	SLS	7782-49-2	
Silver, Dissolved	0.2548	mg/L	0.0002	E200.8	03/22/13 14:33	SLS	7440-22-4	
Silver	0.2563	mg/L	0.0002	E200.8	03/22/13 13:55	SLS	7440-22-4	



Lab Sample ID: S55756.06 Sample Tag: MW-2-1 MSD

Collected Date/Time: 03/14/2013 13:15

Matrix: Groundwater COC Reference: 79611

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst CAS#	Flags
Extraction / Prep.							
Metal Digestion	Completed			3015A	03/22/13 01:00	SLR	
Metal Digestion	Completed			3015A	03/22/13 01:00	SLR	
Metals							
Arsenic, Dissolved	0.275	mg/L	0.002	E200.8	03/22/13 14:36	SLS 7440-38-2	
Arsenic	0.277	mg/L	0.002	E200.8	03/22/13 13:59	SLS 7440-38-2	
Lead, Dissolved	0.267	mg/L	0.003	E200.8	03/22/13 16:18	SLS 7439-92-1	
Lead	0.264	mg/L	0.003	E200.8	03/22/13 15:52	SLS 7439-92-1	
Selenium, Dissolved	0.270	mg/L	0.005	E200.8	03/22/13 14:36	SLS 7782-49-2	
Selenium	0.261	mg/L	0.005	E200.8	03/22/13 13:59	SLS 7782-49-2	
Silver, Dissolved	0.2552	mg/L	0.0002	E200.8	03/22/13 14:36	SLS 7440-22-4	
Silver	0.2573	mg/L	0.0002	E200.8	03/22/13 13:59	SLS 7440-22-4	



Lab Sample ID: S55756.07 Sample Tag: MW-2

Collected Date/Time: 03/14/2013 15:40

Matrix: Groundwater COC Reference: 79611

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst CAS# Flags
Extraction / Prep.						
Metal Digestion	Completed			3015A	03/22/13 01:00	SLR
Metal Digestion	Completed			3015A	03/22/13 01:00	SLR
Metals						
	0.000		0.000	<b>5</b> 000 0	00/00/40 44 00	01.0 7440.00.0
Arsenic, Dissolved	0.009	mg/L	0.002	E200.8	03/22/13 14:20	SLS 7440-38-2
Arsenic	0.027	mg/L	0.002	E200.8	03/22/13 14:17	SLS 7440-38-2
Lead, Dissolved	0.006	mg/L	0.003	E200.8	03/22/13 16:08	SLS 7439-92-1
Lead	0.005	mg/L	0.003	E200.8	03/22/13 16:06	SLS 7439-92-1
Selenium, Dissolved	Not detected	mg/L	0.005	E200.8	03/22/13 14:20	SLS 7782-49-2
Selenium	Not detected	mg/L	0.005	E200.8	03/22/13 14:17	SLS 7782-49-2
Silver, Dissolved	Not detected	mg/L	0.0002	E200.8	03/22/13 14:20	SLS 7440-22-4
Silver	Not detected	mg/L	0.0002	E200.8	03/22/13 14:17	SLS 7440-22-4



Lab Sample ID: S55756.08

Sample Tag: FB-1

Collected Date/Time: 03/14/2013 15:50

Matrix: Quality Control COC Reference: 79611

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst CAS # Flags
Extraction / Prep.						
Metal Digestion	Completed			3015A	03/22/13 01:00	SLR
Metals						
Arsenic	Not detected	mg/L	0.002	E200.8	03/22/13 14:08	SLS 7440-38-2
Lead	Not detected	mg/L	0.003	E200.8	03/22/13 16:02	SLS 7439-92-1
Selenium	Not detected	mg/L	0.005	E200.8	03/22/13 14:08	SLS 7782-49-2
Silver	Not detected	mg/L	0.0002	E200.8	03/22/13 14:08	SLS 7440-22-4



Lab Sample ID: S55756.09

Sample Tag: EB-1

Collected Date/Time: 03/14/2013 16:15

Matrix: Quality Control COC Reference: 79611

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.8	IR

Analysis	Results Units RL		RL	Method	Run Date/Time	Analyst CAS# Flags
Extraction / Prep.						
Metal Digestion	Completed			3015A	03/22/13 01:00	SLR
Metals						
Arsenic	Not detected	mg/L	0.002	E200.8	03/22/13 14:11	SLS 7440-38-2
Lead	Not detected	mg/L	0.003	E200.8	03/22/13 16:04	SLS 7439-92-1
Selenium	Not detected	mg/L	0.005	E200.8	03/22/13 14:11	SLS 7782-49-2
Silver	Not detected	mg/L	0.0002	E200.8	03/22/13 14:11	SLS 7440-22-4



Lab Sample ID: S55756.10 Sample Tag: DUP-1

Collected Date/Time: 03/14/2013 00:01

Matrix: Groundwater COC Reference: 79611

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst CAS # Flags
Extraction / Prep.						
Metal Digestion	Completed			3015A	03/22/13 01:00	SLR
Metal Digestion	Completed			3015A	03/22/13 01:00	SLR
••						
Metals						
Arsenic, Dissolved	0.010	mg/L	0.002	E200.8	03/22/13 14:27	SLS 7440-38-2
Arsenic	0.027	mg/L	0.002	E200.8	03/22/13 14:23	SLS 7440-38-2
Lead, Dissolved	0.008	mg/L	0.003	E200.8	03/22/13 16:12	SLS 7439-92-1
Lead	0.009	mg/L	0.003	E200.8	03/22/13 16:10	SLS 7439-92-1
Selenium, Dissolved	Not detected	mg/L	0.005	E200.8	03/22/13 14:27	SLS 7782-49-2
Selenium	Not detected	mg/L	0.005	E200.8	03/22/13 14:23	SLS 7782-49-2
Silver, Dissolved	Not detected	mg/L	0.0002	E200.8	03/22/13 14:27	SLS 7440-22-4
Silver	Not detected	mg/L	0.0002	E200.8	03/22/13 14:23	SLS 7440-22-4



2680 East Lansing Dr., East Lansing, MI 48823 Phone (517) 332-0167 Fax (517) 332-4034 www.meritlabs.com C.O.C. PAGE # \_\_\_\_\_ OF \_\_\_\_

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Report ID: S56059.01(01) Generated on 04/26/2013

Report to

Attention: Clifford Yantz O'Brien & Gere Engineers, Inc. 37000 Grand River Ave.

Suite 260

Farmington, MI 48335

Phone: 248-477-5701 FAX: Email: Clifford.Yantz@obg.com

Report produced by

Merit Laboratories, Inc. 2680 East Lansing Drive East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions: Andy Ball (andyball@meritlabs.com) Tabitha Faust (tfaust@meritlabs.com)

#### Report Summary

Lab Sample ID(s): S56059.01 Project: RACER Dort Hwy Land Collected Date: 04/10/2013

Submitted Date/Time: 04/12/2013 12:00

Sampled by: Kevin Schneider

P.O. #: 11311200

#### Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

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#### Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814) Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak Laboratory Director

Violetta F. Murshall



Sample Summary (1 samples)

Sample ID Sample Tag Matrix Collected Date/Time

S56059.01 MW-4 Groundwater 04/10/2013 11:25



Lab Sample ID: S56059.01 Sample Tag: MW-4

Collected Date/Time: 04/10/2013 11:25

Matrix: Groundwater COC Reference: 041190

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst CAS # Fla	ags
Extraction / Prep.							_
Metal Digestion	Completed			3015A	04/26/13 10:00	PER	
Metal Digestion	Completed			3015A	04/26/13 10:00	PER	
Metals							
Arsenic, Dissolved	Not detected	mg/L	0.002	E200.8	04/26/13 14:00	PER 7440-38-2	
Arsenic	Not detected	mg/L	0.002	E200.8	04/26/13 13:56	PER 7440-38-2	
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	04/26/13 14:00	PER 7439-92-1	
Lead	Not detected	mg/L	0.003	E200.8	04/26/13 13:56	PER 7439-92-1	
Selenium, Dissolved	Not detected	mg/L	0.005	E200.8	04/26/13 14:00	PER 7782-49-2	
Selenium	Not detected	mg/L	0.005	E200.8	04/26/13 13:56	PER 7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0005	E200.8	04/26/13 14:00	PER 7440-22-4	
Silver	Not detected	mg/L	0.0005	E200.8	04/26/13 13:56	PER 7440-22-4	



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C.O.C. PAGE #	) OF \	

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