

Laboratory Results

Geochemical Testing

Date: 26-Sep-11

CLIENT: RESOURCE MANAGEMENT SERVICES Client Sample ID: RMS 4/9/14
Lab Order: G1109596
Project: BS-P Sampled By: Client
Lab ID: G1109596-003 Collection Date: 9/14/2011 12:00:00 PM
Matrix: AQUEOUS Received Date: 9/16/2011 5:08:05 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS		SM 2310B(4A)				Analyst: LNW
Acidity to pH 8.2	-7	0		mg/L CaCO ₃	1	9/23/2011 9:16:00 AM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	88	1		µmhos/cm	1	9/22/2011 12:21:00 PM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	6.90	0		su	1	9/22/2011 12:21:00 PM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	72	20		mg/L	1	9/16/2011 8:15:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	6	5		mg/L	1	9/16/2011 6:44:30 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	34	5		mg/L CaCO ₃	1	9/22/2011 12:21:00 PM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	0.19	0.05		mg/L as N	1	9/16/2011 10:21:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Bromide	< 0.2	0.2		mg/L	1	9/16/2011 10:21:00 AM
Chloride	2	1		mg/L	1	9/16/2011 10:21:00 AM
Sulfate	13	2		mg/L	1	9/16/2011 10:21:00 AM
INORGANIC METALS		EPA 200.7				Analyst: JAS
Aluminum	0.2	0.1		mg/L	1	9/22/2011 2:53:00 PM
Barium	0.06	0.01		mg/L	1	9/21/2011 9:36:00 PM
Calcium	8.7	0.1		mg/L	1	9/21/2011 9:36:00 PM
Iron	0.22	0.05		mg/L	1	9/21/2011 9:36:00 PM
Magnesium	2.4	0.1		mg/L	1	9/21/2011 9:36:00 PM
Manganese	0.02	0.01		mg/L	1	9/21/2011 9:36:00 PM
Potassium	0.9	0.5		mg/L	1	9/21/2011 9:36:00 PM
Sodium	2.5	0.2		mg/L	1	9/21/2011 9:36:00 PM
Strontium	0.06	0.01		mg/L	1	9/21/2011 9:36:00 PM
Hardness (SM 2340B)	31.6	1.0		mg/L CaCO ₃	1	9/21/2011 9:36:00 PM

Laboratory Results

Geochemical Testing

Date: 26-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 5/9/14
Lab Order:	G1109597		
Project:		Sampled By:	Client
Lab ID:	G1109597-002	Collection Date:	9/14/2011 12:15:00 PM
Matrix:	AQUEOUS	Received Date:	9/16/2011 5:33:41 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
PH BY SM 4500 H+B						Analyst: LNW
Lab pH	5.89		0	su	1	9/22/2011 1:39:00 PM
INORGANIC NON-METALS						Analyst: KLS
Total dissolved solids	62		20	mg/L	1	9/16/2011 8:17:00 AM

Laboratory Results

Geochemical Testing

Date: 26-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 6/9/14
Lab Order:	G1109596		
Project:	BS-P	Sampled By:	Client
Lab ID:	G1109596-004	Collection Date:	9/14/2011 1:20:00 PM
Matrix:	AQUEOUS	Received Date:	9/16/2011 5:08:05 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS		SM 2310B(4A)				Analyst: LNW
Acidity to pH 8.2	-7	0		mg/L CaCO ₃	1	9/23/2011 9:18:00 AM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	85	1		µmhos/cm	1	9/22/2011 12:24:00 PM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	6.57	0		su	1	9/22/2011 12:24:00 PM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	64	20		mg/L	1	9/16/2011 8:15:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	5	5		mg/L	1	9/16/2011 6:44:32 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	31	5		mg/L CaCO ₃	1	9/22/2011 12:24:00 PM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	0.33	0.05		mg/L as N	1	9/16/2011 10:38:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Bromide	< 0.2	0.2		mg/L	1	9/16/2011 10:38:00 AM
Chloride	2	1		mg/L	1	9/16/2011 10:38:00 AM
Sulfate	12	2		mg/L	1	9/16/2011 10:38:00 AM
INORGANIC METALS		EPA 200.7				Analyst: JAS
Aluminum	0.2	0.1		mg/L	1	9/22/2011 2:57:00 PM
Barium	0.12	0.01		mg/L	1	9/21/2011 9:41:00 PM
Calcium	8.2	0.1		mg/L	1	9/21/2011 9:41:00 PM
Iron	0.11	0.05		mg/L	1	9/21/2011 9:41:00 PM
Magnesium	2.3	0.1		mg/L	1	9/21/2011 9:41:00 PM
Manganese	< 0.01	0.01		mg/L	1	9/21/2011 9:41:00 PM
Potassium	0.9	0.5		mg/L	1	9/21/2011 9:41:00 PM
Sodium	2.5	0.2		mg/L	1	9/21/2011 9:41:00 PM
Strontium	0.05	0.01		mg/L	1	9/21/2011 9:41:00 PM
Hardness (SM 2340B)	30.1	1.0		mg/L CaCO ₃	1	9/21/2011 9:41:00 PM

Laboratory Results

Geochemical Testing

Date: 26-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 7/9/14
Lab Order:	G1109597		
Project:		Sampled By:	Client
Lab ID:	G1109597-003	Collection Date:	9/14/2011 2:45:00 PM
Matrix:	AQUEOUS	Received Date:	9/16/2011 5:33:41 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
PH BY SM 4500 H+B						Analyst: LNW
Lab pH	7.55		0	su	1	9/22/2011 1:41:00 PM
INORGANIC NON-METALS						Analyst: KLS
Total dissolved solids	108		20	mg/L	1	9/16/2011 8:17:00 AM

Laboratory Results

Geochemical Testing

Date: 26-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 8/9/14
Lab Order:	G1109596		
Project:	BS-P	Sampled By:	Client
Lab ID:	G1109596-005	Collection Date:	9/14/2011 3:00:00 PM
Matrix:	AQUEOUS	Received Date:	9/16/2011 5:08:05 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS		SM 2310B(4A)				Analyst: LNW
Acidity to pH 8.2	-18	0		mg/L CaCO ₃	1	9/23/2011 9:19:00 AM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	89	1		µmhos/cm	1	9/22/2011 12:27:00 PM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	7.41	0		su	1	9/22/2011 12:27:00 PM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	66	20		mg/L	1	9/16/2011 8:16:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	6	5		mg/L	1	9/16/2011 6:44:34 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	44	5		mg/L CaCO ₃	1	9/22/2011 12:27:00 PM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	< 0.05	0.05		mg/L as N	1	9/16/2011 10:55:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Bromide	< 0.2	0.2		mg/L	1	9/16/2011 10:55:00 AM
Chloride	< 1	1		mg/L	1	9/16/2011 10:55:00 AM
Sulfate	11	2		mg/L	1	9/16/2011 10:55:00 AM
INORGANIC METALS		EPA 200.7				Analyst: JAS
Aluminum	< 0.1	0.1		mg/L	1	9/22/2011 3:01:00 PM
Barium	0.02	0.01		mg/L	1	9/21/2011 9:46:00 PM
Calcium	9.9	0.1		mg/L	1	9/21/2011 9:46:00 PM
Iron	< 0.05	0.05		mg/L	1	9/21/2011 9:46:00 PM
Magnesium	3.1	0.1		mg/L	1	9/21/2011 9:46:00 PM
Manganese	< 0.01	0.01		mg/L	1	9/21/2011 9:46:00 PM
Potassium	0.8	0.5		mg/L	1	9/21/2011 9:46:00 PM
Sodium	1.6	0.2		mg/L	1	9/21/2011 9:46:00 PM
Strontium	0.05	0.01		mg/L	1	9/21/2011 9:46:00 PM
Hardness (SM 2340B)	37.3	1.0		mg/L CaCO ₃	1	9/21/2011 9:46:00 PM

Laboratory Results

Geochemical Testing

Date: 26-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 9/9/14
Lab Order:	G1109597		
Project:		Sampled By:	Client
Lab ID:	G1109597-004	Collection Date:	9/14/2011 3:35:00 PM
Matrix:	AQUEOUS	Received Date:	9/16/2011 5:33:41 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
PH BY SM 4500 H+B						Analyst: LNW
Lab pH	7.19		0	su	1	9/22/2011 1:42:00 PM
INORGANIC NON-METALS						Analyst: KLS
Total dissolved solids	90		20	mg/L	1	9/16/2011 8:17:00 AM

Laboratory Results

Geochemical Testing

Date: 26-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 10/9/14
Lab Order:	G1109596		
Project:	BS-P	Sampled By:	Client
Lab ID:	G1109596-006	Collection Date:	9/14/2011 4:00:00 PM
Matrix:	AQUEOUS	Received Date:	9/16/2011 5:08:05 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS		SM 2310B(4A)				Analyst: LNW
Acidity to pH 8.2	-19	0		mg/L CaCO ₃	1	9/23/2011 9:21:00 AM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	142	1		µmhos/cm	1	9/22/2011 12:30:00 PM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	6.71	0		su	1	9/22/2011 12:30:00 PM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	92	20		mg/L	1	9/16/2011 8:16:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	< 5	5		mg/L	1	9/16/2011 6:44:35 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	42	5		mg/L CaCO ₃	1	9/22/2011 12:30:00 PM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	1.95	0.05		mg/L as N	1	9/16/2011 11:12:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Bromide	< 0.2	0.2		mg/L	1	9/16/2011 11:12:00 AM
Chloride	5	1		mg/L	1	9/16/2011 11:12:00 AM
Sulfate	14	2		mg/L	1	9/16/2011 11:12:00 AM
INORGANIC METALS		EPA 200.7				Analyst: JAS
Aluminum	< 0.1	0.1		mg/L	1	9/22/2011 3:13:00 PM
Barium	0.03	0.01		mg/L	1	9/21/2011 10:00:00 PM
Calcium	11.1	0.1		mg/L	1	9/21/2011 10:00:00 PM
Iron	< 0.05	0.05		mg/L	1	9/21/2011 10:00:00 PM
Magnesium	5.0	0.1		mg/L	1	9/21/2011 10:00:00 PM
Manganese	< 0.01	0.01		mg/L	1	9/21/2011 10:00:00 PM
Potassium	1.6	0.5		mg/L	1	9/21/2011 10:00:00 PM
Sodium	6.3	0.2		mg/L	1	9/21/2011 10:00:00 PM
Strontium	0.08	0.01		mg/L	1	9/21/2011 10:00:00 PM
Hardness (SM 2340B)	48.2	1.0		mg/L CaCO ₃	1	9/21/2011 10:00:00 PM
INDICATOR ORGANIC PARAMETERS		EPA 1664				Analyst: DSZ
Oil & Grease	< 5	5		mg/L	1.02	9/22/2011 12:47:00 PM

Laboratory Results

Geochemical Testing

Date: 26-Sep-11

CLIENT: RESOURCE MANAGEMENT SERVICES Client Sample ID: RMS 11/9/14
Lab Order: G1109596
Project: BS-P Sampled By: Client
Lab ID: G1109596-007 Collection Date: 9/14/2011 4:15:00 PM
Matrix: AQUEOUS Received Date: 9/16/2011 5:08:05 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS		SM 2310B(4A)				Analyst: LNW
Acidity to pH 8.2	-11	0		mg/L CaCO ₃	1	9/23/2011 9:23:00 AM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	152	1		µmhos/cm	1	9/22/2011 12:33:00 PM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	6.54	0		su	1	9/22/2011 12:33:00 PM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	94	20		mg/L	1	9/16/2011 8:17:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	< 5	5		mg/L	1	9/16/2011 6:44:37 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	33	5		mg/L CaCO ₃	1	9/22/2011 12:33:00 PM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	0.99	0.05		mg/L as N	1	9/16/2011 12:36:00 PM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Bromide	< 0.2	0.2		mg/L	1	9/16/2011 12:36:00 PM
Chloride	15	1		mg/L	1	9/16/2011 12:36:00 PM
Sulfate	13	2		mg/L	1	9/16/2011 12:36:00 PM
INORGANIC METALS		EPA 200.7				Analyst: JAS
Aluminum	< 0.1	0.1		mg/L	1	9/22/2011 3:49:00 PM
Barium	0.01	0.01		mg/L	1	9/21/2011 10:04:00 PM
Calcium	8.3	0.1		mg/L	1	9/21/2011 10:04:00 PM
Iron	< 0.05	0.05		mg/L	1	9/21/2011 10:04:00 PM
Magnesium	3.2	0.1		mg/L	1	9/21/2011 10:04:00 PM
Manganese	< 0.01	0.01		mg/L	1	9/21/2011 10:04:00 PM
Potassium	1.1	0.5		mg/L	1	9/21/2011 10:04:00 PM
Sodium	13.3	0.2		mg/L	1	9/21/2011 10:04:00 PM
Strontium	0.04	0.01		mg/L	1	9/21/2011 10:04:00 PM
Hardness (SM 2340B)	34.1	1.0		mg/L CaCO ₃	1	9/21/2011 10:04:00 PM
INDICATOR ORGANIC PARAMETERS		EPA 1664				Analyst: DSZ
Oil & Grease	< 5	5		mg/L	1.03	9/22/2011 12:47:00 PM

Shuttle/Cooler ID#:

CHAIN OF CUSTODY

Geochemical Testing

Form F-5002, 08.10

Geochemical Testing • 2005 North Center Avenue • Somerset PA 15501 • (814) 443-1671 • Fax (814) 445-6729

Billing Client:	<i>RMS</i>	Contact (Company):	<i>RMS</i>	Phone: ()
Address:		e-mail:		Fax: ()
City:	State:	Zip:	Sampled by: <i>B/B</i>	Preservatives by Sampler <i>GT</i>
WO#:		Project:		PO/Quote#:

Sample Matrix:	GW Ground Water	SW Surface Water	PW Potable Water	WW Wastewater	SO Soil	SL Sludge	nHZ Not Hazardous / HZ Hazardous	PCBs
Sample Type:	G Grab	C Composite	D Distribution/DW	R Raw/DW	S Special/DW	O Other	Containers Supplied by: ☐ Client ☒ GT Lab	

Sample Location/ Description	Lab Number	Sample Matrix	Date	Time (Military)	Sample Type	**Analyses Requested	Remarks/ Preservatives, etc	Number Containers
**NOTE: IF multiple analytes from one bottle, OR if multiple bottles for one analyte, THEN list separately on one line UNLESS LISTED ON ATTACHED FIELD LOG								
<i>RMS 1/9/14</i>	<i>61109597</i> <i>001</i>	<i>SW</i>	<i>9-14-11</i>	<i>various</i>	<i>G</i>	<i>pH + TDS</i>	Field Filtered: Y ☒	<i>1</i>
<i>RMS 2/9/14</i>	<i>61109596</i> <i>001</i>	<i>nHZ / HZ</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>BS-P + Al + K</i>	Field Filtered: Y ☒	<i>3</i>
<i>RMS 3/9/14</i>	<i>002</i>	<i>nHZ / HZ</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>BS-P + Al + K</i>	Field Filtered: Y ☒	<i>3</i>
<i>RMS 4/9/14</i>	<i>003</i>	<i>nHZ / HZ</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>BS-P + Al + K</i>	Field Filtered: Y ☒	<i>3</i>
<i>RMS 5/9/14</i>	<i>61109597</i> <i>002</i>	<i>nHZ / HZ</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>pH + TDS</i>	Field Filtered: Y ☒	<i>1</i>
<i>RMS 6/9/14</i>	<i>004</i>	<i>nHZ / HZ</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>BS-P + Al + K</i>	Field Filtered: Y ☒	<i>3</i>
<i>RMS 7/9/14</i>	<i>61109597</i> <i>003</i>	<i>nHZ / HZ</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>pH + TDS</i>	Field Filtered: Y ☒	<i>1</i>
<i>RMS 8/9/14</i>	<i>005</i>	<i>nHZ / HZ</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>BS-P + Al + K</i>	Field Filtered: Y ☒	<i>3</i>

Note Deficiencies Here:

Relinquished by (Company & Signature)	Date	Time (Military)	Received by (Company & Signature):	Date	Time (Military)
<i>[Signature]</i>	<i>9-15-11</i>	<i>1000</i>	<i>[Signature]</i>	<i>9-15-11</i>	<i>1355</i>
<i>[Signature]</i>	<i>9-15-11</i>	<i>1555</i>	<i>[Signature]</i>	<i>9-16-11</i>	<i>308</i>

SAMPLES MUST BE PRESERVED ON ICE.

Ice present on receipt: ☒ Yes or ☐ No Cooler Temp (°C) on receipt: *4*