

APPENDIX F

Chemistry Data from April 2012

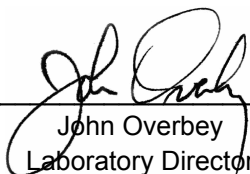


FTN Associates, Ltd.
ATTN: Mr. Jim Malcolm
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Little Rock, AR 72211

This report contains the analytical results and supporting information for samples submitted on April 27, 2012. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.



John Overbey
Laboratory Director

This document has been distributed to the following:

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FTN Associates, Ltd.
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SAMPLE INFORMATION

Project Description:

Twenty-seven (27) water sample(s) received on April 27, 2012
6750-105
DIM

Receipt Details:

A Chain of Custody was provided. The samples were delivered in four (4) ice chests.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

Laboratory ID	Client Sample ID	Sampled Date/Time	Notes
157321-1	LUC-0 4/24/12 0815	24-Apr-2012 0815	
157321-2	RUS-0 4/24/12 0930	24-Apr-2012 0930	
157321-3	RUS-1-E 4/24/12 1000	24-Apr-2012 1000	
157321-4	RUS-1-W 4/24/12 1015	24-Apr-2012 1015	
157321-5	CHM-0 4/24/12 1430	24-Apr-2012 1430	
157321-6	CHM-1 4/24/12 1230	24-Apr-2012 1230	
157321-7	CHM-2 4/24/12 1125	24-Apr-2012 1125	
157321-8	REY-2 4/24/12 1700	24-Apr-2012 1700	
157321-9	REY-3 4/24/12 1745	24-Apr-2012 1745	
157321-10	SCL-0 4/25/12 0805	25-Apr-2012 0805	
157321-11	SCL-1 4/25/12 0945	25-Apr-2012 0945	
157321-12	COV-1 4/25/12 1215	25-Apr-2012 1215	
157321-13	COV-1B 4/26/12 1455	26-Apr-2012 1455	
157321-14	COV-2 4/26/12 1345	26-Apr-2012 1345	
157321-15	COV-3 4/24/12 1530	24-Apr-2012 1530	
157321-16	CO4-4 4/24/12 1330	24-Apr-2012 1330	1
157321-17	SQC@51 4/25/12 1320	25-Apr-2012 1320	1
157321-18	CRL-4B 4/26/12 0810	26-Apr-2012 0810	
157321-19	CRL-4S 4/26/12 0812	26-Apr-2012 0812	
157321-20	CRL-1B 4/26/12 0830	26-Apr-2012 0830	
157321-21	CRL-1S 4/26/12 0832	26-Apr-2012 0832	
157321-22	Pit Profile 1 4/26/12 1030	26-Apr-2012 1030	
157321-23	Pit Profile 2 4/26/12 1035	26-Apr-2012 1035	
157321-24	Pit Profile 3 4/26/12 1040	26-Apr-2012 1040	
157321-25	SEEP-TP1 4/26/12 1400	26-Apr-2012 1400	1
157321-26	SEEP-TP4E 4/26/12 1415	26-Apr-2012 1415	
157321-27	SC1-1D 4/25/12 09:50	25-Apr-2012 0950	

Notes:

- Sample label was incomplete in regard to date/time of sampling
157321-16: Id as CO4-4; Date as 4-12-12
157321-17: Time as 1329
157321-25: Date as 4/26/12

Qualifiers:

- D Result is from a secondary dilution factor



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SAMPLE INFORMATION

References:

"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
"Standard Methods for the Examination of Water and Wastewaters", 20th edition, 1998.
"American Society for Testing and Materials" (ASTM).
"Association of Analytical Chemists" (AOAC).

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ANALYTICAL RESULTS

AIC No. 157321-1

Sample Identification: LUC-0 4/24/12 0815

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 01-May-2012 1201 by 93		Batch: W39687	
Total Dissolved Solids		70	10	mg/l	
SM 2540C	Prep: 30-Apr-2012 1055 by 285	Analyzed: 02-May-2012 1410 by 285		Batch: W39682	
Calcium		2.6	0.1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 01-May-2012 1640 by 270		Batch: S32325	
Magnesium		2.1	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 01-May-2012 1640 by 270		Batch: S32325	
Potassium		< 1	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 01-May-2012 1640 by 270		Batch: S32325	
Sodium		1.6	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 01-May-2012 1640 by 270		Batch: S32325	
Chloride		1.4	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 27-Apr-2012 1759 by 07		Batch: S32317	
Sulfate		18	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 27-Apr-2012 1759 by 07		Batch: S32317	

AIC No. 157321-2

Sample Identification: RUS-0 4/24/12 0930

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 01-May-2012 1201 by 93		Batch: W39687	
Total Dissolved Solids		140	10	mg/l	
SM 2540C	Prep: 30-Apr-2012 1055 by 285	Analyzed: 02-May-2012 1410 by 285		Batch: W39682	
Calcium		9.7	0.1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 02-May-2012 1916 by 297		Batch: S32325	
Magnesium		15	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 01-May-2012 2109 by 270		Batch: S32325	
Potassium		< 1	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 01-May-2012 2109 by 270		Batch: S32325	
Sodium		1.8	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 02-May-2012 1916 by 297		Batch: S32325	
Chloride		1.6	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 27-Apr-2012 1825 by 07		Batch: S32317	
Sulfate		78	2	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 29-Apr-2012 1720 by 07		Batch: S32317	Dil: 10

AIC No. 157321-3

Sample Identification: RUS-1-E 4/24/12 1000

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 01-May-2012 1201 by 93		Batch: W39687	

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ANALYTICAL RESULTS

AIC No. 157321-3 (Continued)

Sample Identification: RUS-1-E 4/24/12 1000

Analyte		Result	RL	Units	Qualifier
Total Dissolved Solids		250	10	mg/l	
SM 2540C	Prep: 30-Apr-2012 1055 by 285	Analyzed: 02-May-2012 1410 by 285		Batch: W39682	
Calcium		21	0.1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 02-May-2012 1919 by 297		Batch: S32325	
Magnesium		15	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 01-May-2012 2111 by 270		Batch: S32325	
Potassium		< 1	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 01-May-2012 2111 by 270		Batch: S32325	
Sodium		1.9	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 02-May-2012 1919 by 297		Batch: S32325	
Chloride		1.5	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 27-Apr-2012 1851 by 07		Batch: S32317	
Sulfate		140	2	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 29-Apr-2012 1746 by 07		Batch: S32317	Dil: 10

AIC No. 157321-4

Sample Identification: RUS-1-W 4/24/12 1015

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 01-May-2012 1201 by 93		Batch: W39687	
Total Dissolved Solids		150	10	mg/l	
SM 2540C	Prep: 30-Apr-2012 1055 by 285	Analyzed: 02-May-2012 1410 by 285		Batch: W39682	
Calcium		8.4	0.1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 02-May-2012 1922 by 297		Batch: S32325	
Magnesium		4.5	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 01-May-2012 2114 by 270		Batch: S32325	
Potassium		< 1	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 01-May-2012 2114 by 270		Batch: S32325	
Sodium		1.9	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 02-May-2012 1922 by 297		Batch: S32325	
Chloride		1.6	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 27-Apr-2012 1917 by 07		Batch: S32317	
Sulfate		87	2	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 29-Apr-2012 1812 by 07		Batch: S32317	Dil: 10

AIC No. 157321-5

Sample Identification: CHM-0 4/24/12 1430

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 01-May-2012 1201 by 93		Batch: W39687	

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ANALYTICAL RESULTS

AIC No. 157321-5 (Continued)

Sample Identification: CHM-0 4/24/12 1430

Analyte		Result	RL	Units	Qualifier
Total Dissolved Solids		960	10	mg/l	
SM 2540C	Prep: 30-Apr-2012 1055 by 285	Analyzed: 02-May-2012 1410 by 285		Batch: W39682	
Calcium		180	1	mg/l	D
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 07-May-2012 1641 by 297		Batch: S32325	Dil: 10
Magnesium		35	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 01-May-2012 2117 by 270		Batch: S32325	
Potassium		3.4	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 01-May-2012 2117 by 270		Batch: S32325	
Sodium		19	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 02-May-2012 1925 by 297		Batch: S32325	
Chloride		19	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 27-Apr-2012 2008 by 07		Batch: S32317	
Sulfate		590	20	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 29-Apr-2012 1838 by 07		Batch: S32317	Dil: 100

AIC No. 157321-6

Sample Identification: CHM-1 4/24/12 1230

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 01-May-2012 1201 by 93		Batch: W39687	
Total Dissolved Solids		1600	20	mg/l	
SM 2540C	Prep: 30-Apr-2012 1055 by 285	Analyzed: 02-May-2012 1410 by 285		Batch: W39682	
Calcium		340	1	mg/l	D
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 07-May-2012 1643 by 297		Batch: S32325	Dil: 10
Magnesium		63	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 01-May-2012 2120 by 270		Batch: S32325	
Potassium		7.2	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 01-May-2012 2120 by 270		Batch: S32325	
Sodium		32	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 02-May-2012 1928 by 297		Batch: S32325	
Chloride		33	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 27-Apr-2012 2100 by 07		Batch: S32317	
Sulfate		990	20	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 29-Apr-2012 1904 by 07		Batch: S32317	Dil: 100

AIC No. 157321-7

Sample Identification: CHM-2 4/24/12 1125

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 01-May-2012 1201 by 93		Batch: W39687	

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ANALYTICAL RESULTS

AIC No. 157321-7 (Continued)

Sample Identification: CHM-2 4/24/12 1125

Analyte		Result	RL	Units	Qualifier
Total Dissolved Solids		1900	20	mg/l	
SM 2540C	Prep: 30-Apr-2012 1055 by 285	Analyzed: 02-May-2012 1410 by 285		Batch: W39682	
Calcium		430	1	mg/l	D
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 07-May-2012 1645 by 297		Batch: S32325	Dil: 10
Magnesium		57	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0156 by 297		Batch: S32325	
Potassium		6.4	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0156 by 297		Batch: S32325	
Sodium		37	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0156 by 297		Batch: S32325	
Chloride		37	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 27-Apr-2012 2309 by 07		Batch: S32317	
Sulfate		1100	20	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 29-Apr-2012 1930 by 07		Batch: S32317	Dil: 100

AIC No. 157321-8

Sample Identification: REY-2 4/24/12 1700

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 01-May-2012 1201 by 93		Batch: W39687	
Total Dissolved Solids		130	10	mg/l	
SM 2540C	Prep: 30-Apr-2012 1055 by 285	Analyzed: 02-May-2012 1410 by 285		Batch: W39682	
Calcium		17	0.1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0159 by 297		Batch: S32325	
Magnesium		6.1	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0159 by 297		Batch: S32325	
Potassium		< 1	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0159 by 297		Batch: S32325	
Sodium		4.6	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0159 by 297		Batch: S32325	
Chloride		2.0	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 27-Apr-2012 2335 by 07		Batch: S32317	
Sulfate		78	2	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 29-Apr-2012 1955 by 07		Batch: S32317	Dil: 10

AIC No. 157321-9

Sample Identification: REY-3 4/24/12 1745

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 01-May-2012 1201 by 93		Batch: W39687	

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ANALYTICAL RESULTS

AIC No. 157321-9 (Continued)

Sample Identification: REY-3 4/24/12 1745

Analyte		Result	RL	Units	Qualifier
Total Dissolved Solids		250	10	mg/l	
SM 2540C	Prep: 30-Apr-2012 1055 by 285	Analyzed: 02-May-2012 1410 by 285		Batch: W39682	
Calcium		40	0.1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0202 by 297		Batch: S32325	
Magnesium		7.7	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0202 by 297		Batch: S32325	
Potassium		< 1	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0202 by 297		Batch: S32325	
Sodium		12	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0202 by 297		Batch: S32325	
Chloride		2.1	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 28-Apr-2012 0001 by 07		Batch: S32317	
Sulfate		150	2	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 29-Apr-2012 2026 by 07		Batch: S32317	Dil: 10

AIC No. 157321-10

Sample Identification: SCL-0 4/25/12 0805

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 01-May-2012 1201 by 93		Batch: W39687	
Total Dissolved Solids		84	10	mg/l	
SM 2540C	Prep: 30-Apr-2012 1055 by 285	Analyzed: 02-May-2012 1410 by 285		Batch: W39682	
Calcium		9.4	0.1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0205 by 297		Batch: S32325	
Magnesium		5.4	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0205 by 297		Batch: S32325	
Potassium		< 1	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0205 by 297		Batch: S32325	
Sodium		2.4	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0205 by 297		Batch: S32325	
Chloride		2.1	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 28-Apr-2012 0027 by 07		Batch: S32317	
Sulfate		51	2	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 29-Apr-2012 2100 by 07		Batch: S32317	Dil: 10

AIC No. 157321-11

Sample Identification: SCL-1 4/25/12 0945

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		6.8	1	mg/l	
SM 2320B		Analyzed: 01-May-2012 1201 by 93		Batch: W39687	

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ANALYTICAL RESULTS

AIC No. 157321-11 (Continued)

Sample Identification: SCL-1 4/25/12 0945

Analyte		Result	RL	Units	Qualifier
Total Dissolved Solids		33	10	mg/l	
SM 2540C	Prep: 30-Apr-2012 1055 by 285	Analyzed: 02-May-2012 1410 by 285		Batch: W39682	
Calcium		3.3	0.1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0207 by 297		Batch: S32325	
Magnesium		0.96	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0207 by 297		Batch: S32325	
Potassium		< 1	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0207 by 297		Batch: S32325	
Sodium		1.4	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0207 by 297		Batch: S32325	
Chloride		1.7	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 28-Apr-2012 0053 by 07		Batch: S32317	
Sulfate		5.0	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 28-Apr-2012 0053 by 07		Batch: S32317	

AIC No. 157321-12

Sample Identification: COV-1 4/25/12 1215

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		17	1	mg/l	
SM 2320B		Analyzed: 01-May-2012 1201 by 93		Batch: W39687	
Total Dissolved Solids		490	10	mg/l	
SM 2540C	Prep: 30-Apr-2012 1055 by 285	Analyzed: 02-May-2012 1410 by 285		Batch: W39682	
Calcium		110	1	mg/l	D
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 07-May-2012 1647 by 297		Batch: S32325	Dil: 10
Magnesium		17	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0210 by 297		Batch: S32325	
Potassium		2.6	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0210 by 297		Batch: S32325	
Sodium		12	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0210 by 297		Batch: S32325	
Chloride		12	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 28-Apr-2012 0144 by 07		Batch: S32317	
Sulfate		300	2	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 28-Apr-2012 0118 by 07		Batch: S32317	Dil: 10

AIC No. 157321-13

Sample Identification: COV-1B 4/26/12 1455

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 01-May-2012 1201 by 93		Batch: W39687	

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ANALYTICAL RESULTS

AIC No. 157321-13 (Continued)

Sample Identification: COV-1B 4/26/12 1455

Analyte		Result	RL	Units	Qualifier
Total Dissolved Solids		< 10	10	mg/l	
SM 2540C	Prep: 30-Apr-2012 1055 by 285	Analyzed: 02-May-2012 1410 by 285		Batch: W39682	
Calcium		< 0.1	0.1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0213 by 297		Batch: S32325	
Magnesium		< 0.03	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0213 by 297		Batch: S32325	
Potassium		< 1	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0213 by 297		Batch: S32325	
Sodium		< 1	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0213 by 297		Batch: S32325	
Chloride		< 0.2	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 01-May-2012 1037 by 07		Batch: S32317	
Sulfate		< 0.2	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 01-May-2012 1037 by 07		Batch: S32317	

AIC No. 157321-14

Sample Identification: COV-2 4/26/12 1345

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		8.6	1	mg/l	
SM 2320B		Analyzed: 01-May-2012 1210 by 93		Batch: W39687	
Total Dissolved Solids		630	10	mg/l	
SM 2540C	Prep: 30-Apr-2012 1055 by 285	Analyzed: 02-May-2012 1410 by 285		Batch: W39682	
Calcium		140	1	mg/l	D
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 07-May-2012 1649 by 297		Batch: S32325	Dil: 10
Magnesium		21	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0216 by 297		Batch: S32325	
Potassium		2.9	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0216 by 297		Batch: S32325	
Sodium		15	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0216 by 297		Batch: S32325	
Chloride		15	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 28-Apr-2012 0419 by 07		Batch: S32317	
Sulfate		360	2	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 29-Apr-2012 2134 by 07		Batch: S32317	Dil: 10

AIC No. 157321-15

Sample Identification: COV-3 4/24/12 1530

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 03-May-2012 0946 by 93		Batch: W39710	

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ANALYTICAL RESULTS

AIC No. 157321-15 (Continued)

Sample Identification: COV-3 4/24/12 1530

Analyte		Result	RL	Units	Qualifier
Total Dissolved Solids		440	10	mg/l	
SM 2540C	Prep: 30-Apr-2012 1055 by 285	Analyzed: 02-May-2012 1410 by 285		Batch: W39682	
Calcium		86	0.1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0219 by 297		Batch: S32325	
Magnesium		20	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0219 by 297		Batch: S32325	
Potassium		2.3	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0219 by 297		Batch: S32325	
Sodium		8.6	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0219 by 297		Batch: S32325	
Chloride		9.2	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 28-Apr-2012 0511 by 07		Batch: S32317	
Sulfate		290	2	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 28-Apr-2012 0445 by 07		Batch: S32317	Dil: 10

AIC No. 157321-16

Sample Identification: CO4-4 4/24/12 1330

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		12	1	mg/l	
SM 2320B		Analyzed: 03-May-2012 0946 by 93		Batch: W39710	
Total Dissolved Solids		33	10	mg/l	
SM 2540C	Prep: 30-Apr-2012 1055 by 285	Analyzed: 02-May-2012 1410 by 285		Batch: W39682	
Calcium		5.8	0.1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0222 by 297		Batch: S32325	
Magnesium		1.5	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0222 by 297		Batch: S32325	
Potassium		1.1	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0222 by 297		Batch: S32325	
Sodium		2.4	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0222 by 297		Batch: S32325	
Chloride		2.0	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 28-Apr-2012 0537 by 07		Batch: S32317	
Sulfate		8.3	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1121 by 07	Analyzed: 28-Apr-2012 0537 by 07		Batch: S32317	

AIC No. 157321-17

Sample Identification: SQC@51 4/25/12 1320

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		5.1	1	mg/l	
SM 2320B		Analyzed: 03-May-2012 0946 by 93		Batch: W39710	

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ANALYTICAL RESULTS

AIC No. 157321-17 (Continued)

Sample Identification: SQC@51 4/25/12 1320

Analyte		Result	RL	Units	Qualifier
Total Dissolved Solids		30	10	mg/l	
SM 2540C	Prep: 30-Apr-2012 1055 by 285	Analyzed: 02-May-2012 1410 by 285		Batch: W39682	
Calcium		2.0	0.1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0236 by 297		Batch: S32325	
Magnesium		1.1	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0236 by 297		Batch: S32325	
Potassium		< 1	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0236 by 297		Batch: S32325	
Sodium		3.0	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0236 by 297		Batch: S32325	
Chloride		3.2	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 28-Apr-2012 0746 by 07		Batch: S32324	
Sulfate		5.4	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 28-Apr-2012 0746 by 07		Batch: S32324	

AIC No. 157321-18

Sample Identification: CRL-4B 4/26/12 0810

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 03-May-2012 0946 by 93		Batch: W39710	
Total Dissolved Solids		120	10	mg/l	
SM 2540C	Prep: 02-May-2012 0837 by 285	Analyzed: 03-May-2012 1130 by 285		Batch: W39698	
Calcium		9.4	0.1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0239 by 297		Batch: S32325	
Magnesium		6.8	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0239 by 297		Batch: S32325	
Potassium		< 1	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0239 by 297		Batch: S32325	
Sodium		2.5	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0239 by 297		Batch: S32325	
Chloride		2.2	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 28-Apr-2012 0812 by 07		Batch: S32324	
Sulfate		67	2	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 29-Apr-2012 2317 by 07		Batch: S32324	Dil: 10

AIC No. 157321-19

Sample Identification: CRL-4S 4/26/12 0812

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 03-May-2012 0946 by 93		Batch: W39710	

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ANALYTICAL RESULTS

AIC No. 157321-19 (Continued)

Sample Identification: CRL-4S 4/26/12 0812

Analyte		Result	RL	Units	Qualifier
Total Dissolved Solids		100	10	mg/l	
SM 2540C	Prep: 02-May-2012 0837 by 285	Analyzed: 03-May-2012 1130 by 285		Batch: W39698	
Calcium		8.8	0.1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0241 by 297		Batch: S32325	
Magnesium		6.3	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0241 by 297		Batch: S32325	
Potassium		< 1	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0241 by 297		Batch: S32325	
Sodium		2.3	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0241 by 297		Batch: S32325	
Chloride		2.0	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 28-Apr-2012 0955 by 07		Batch: S32324	
Sulfate		62	2	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 29-Apr-2012 2351 by 07		Batch: S32324	Dil: 10

AIC No. 157321-20

Sample Identification: CRL-1B 4/26/12 0830

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 03-May-2012 0946 by 93		Batch: W39710	
Total Dissolved Solids		110	10	mg/l	
SM 2540C	Prep: 02-May-2012 0837 by 285	Analyzed: 03-May-2012 1130 by 285		Batch: W39698	
Calcium		8.9	0.1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0244 by 297		Batch: S32325	
Magnesium		6.3	0.03	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0244 by 297		Batch: S32325	
Potassium		< 1	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0244 by 297		Batch: S32325	
Sodium		2.3	1	mg/l	
EPA 200.7	Prep: 27-Apr-2012 1442 by 271	Analyzed: 04-May-2012 0244 by 297		Batch: S32325	
Chloride		2.1	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 28-Apr-2012 1021 by 07		Batch: S32324	
Sulfate		66	2	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 30-Apr-2012 0025 by 07		Batch: S32324	Dil: 10

AIC No. 157321-21

Sample Identification: CRL-1S 4/26/12 0832

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 03-May-2012 0946 by 93		Batch: W39710	

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ANALYTICAL RESULTS

AIC No. 157321-21 (Continued)

Sample Identification: CRL-1S 4/26/12 0832

Analyte		Result	RL	Units	Qualifier
Total Dissolved Solids		110	10	mg/l	
SM 2540C	Prep: 02-May-2012 0837 by 285	Analyzed: 03-May-2012 1130 by 285		Batch: W39698	
Calcium		8.6	0.1	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 30-Apr-2012 2016 by 297		Batch: S32329	
Magnesium		6.2	0.03	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 30-Apr-2012 2016 by 297		Batch: S32329	
Potassium		< 1	1	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 30-Apr-2012 2016 by 297		Batch: S32329	
Sodium		2.2	1	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 30-Apr-2012 2016 by 297		Batch: S32329	
Chloride		2.1	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 28-Apr-2012 1047 by 07		Batch: S32324	
Sulfate		63	2	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 30-Apr-2012 0059 by 07		Batch: S32324	Dil: 10

AIC No. 157321-22

Sample Identification: Pit Profile 1 4/26/12 1030

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 03-May-2012 0946 by 93		Batch: W39710	
Total Dissolved Solids		1800	20	mg/l	
SM 2540C	Prep: 02-May-2012 0837 by 285	Analyzed: 03-May-2012 1130 by 285		Batch: W39698	
Calcium		240	1	mg/l	D
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 07-May-2012 1651 by 297		Batch: S32329	Dil: 10
Magnesium		19	0.3	mg/l	D
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 07-May-2012 1651 by 297		Batch: S32329	Dil: 10
Potassium		6.4	1	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 04-May-2012 0246 by 297		Batch: S32329	
Sodium		31	1	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 04-May-2012 0246 by 297		Batch: S32329	
Chloride		34	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 28-Apr-2012 1138 by 07		Batch: S32324	
Sulfate		1200	20	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 30-Apr-2012 0126 by 07		Batch: S32324	Dil: 100

AIC No. 157321-23

Sample Identification: Pit Profile 2 4/26/12 1035

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 03-May-2012 0946 by 93		Batch: W39710	

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ANALYTICAL RESULTS

AIC No. 157321-23 (Continued)

Sample Identification: Pit Profile 2 4/26/12 1035

Analyte		Result	RL	Units	Qualifier
Total Dissolved Solids		1900	20	mg/l	
SM 2540C	Prep: 02-May-2012 0837 by 285	Analyzed: 03-May-2012 1130 by 285		Batch: W39698	
Calcium		280	1	mg/l	D
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 07-May-2012 1653 by 297		Batch: S32329	Dil: 10
Magnesium		120	0.3	mg/l	D
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 07-May-2012 1653 by 297		Batch: S32329	Dil: 10
Potassium		6.5	1	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 04-May-2012 0250 by 297		Batch: S32329	
Sodium		32	1	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 04-May-2012 0250 by 297		Batch: S32329	
Chloride		36	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 28-Apr-2012 1230 by 07		Batch: S32324	
Sulfate		1100	20	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 30-Apr-2012 0151 by 07		Batch: S32324	Dil: 100

AIC No. 157321-24

Sample Identification: Pit Profile 3 4/26/12 1040

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 03-May-2012 0946 by 93		Batch: W39710	
Total Dissolved Solids		4300	80	mg/l	
SM 2540C	Prep: 02-May-2012 0837 by 285	Analyzed: 03-May-2012 1130 by 285		Batch: W39698	
Calcium		480	1	mg/l	D
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 07-May-2012 1655 by 297		Batch: S32329	Dil: 10
Magnesium		280	0.3	mg/l	D
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 07-May-2012 1655 by 297		Batch: S32329	Dil: 10
Potassium		11	1	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 04-May-2012 0253 by 297		Batch: S32329	
Sodium		37	1	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 04-May-2012 0253 by 297		Batch: S32329	
Chloride		33	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 28-Apr-2012 1322 by 07		Batch: S32324	
Sulfate		2500	20	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 30-Apr-2012 0217 by 07		Batch: S32324	Dil: 100

AIC No. 157321-25

Sample Identification: SEEP-TP1 4/26/12 1400

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 03-May-2012 0946 by 93		Batch: W39710	

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ANALYTICAL RESULTS

AIC No. 157321-25 (Continued)

Sample Identification: SEEP-TP1 4/26/12 1400

Analyte		Result	RL	Units	Qualifier
Total Dissolved Solids		740	10	mg/l	
SM 2540C	Prep: 02-May-2012 0837 by 285	Analyzed: 03-May-2012 1130 by 285		Batch: W39698	
Calcium		120	1	mg/l	D
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 07-May-2012 1657 by 297		Batch: S32329	Dil: 10
Magnesium		18	0.03	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 04-May-2012 0256 by 297		Batch: S32329	
Potassium		2.6	1	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 04-May-2012 0256 by 297		Batch: S32329	
Sodium		22	1	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 04-May-2012 0256 by 297		Batch: S32329	
Chloride		1.8	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 28-Apr-2012 1531 by 07		Batch: S32324	
Sulfate		470	20	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 30-Apr-2012 0243 by 07		Batch: S32324	Dil: 100

AIC No. 157321-26

Sample Identification: SEEP-TP4E 4/26/12 1415

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		< 1	1	mg/l	
SM 2320B		Analyzed: 03-May-2012 0946 by 93		Batch: W39710	
Total Dissolved Solids		990	10	mg/l	
SM 2540C	Prep: 02-May-2012 0837 by 285	Analyzed: 03-May-2012 1130 by 285		Batch: W39698	
Calcium		200	1	mg/l	D
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 07-May-2012 1659 by 297		Batch: S32329	Dil: 10
Magnesium		34	0.03	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 04-May-2012 0259 by 297		Batch: S32329	
Potassium		4.1	1	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 04-May-2012 0259 by 297		Batch: S32329	
Sodium		19	1	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 04-May-2012 0259 by 297		Batch: S32329	
Chloride		1.7	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 28-Apr-2012 1622 by 07		Batch: S32324	
Sulfate		720	20	mg/l	D
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 30-Apr-2012 0309 by 07		Batch: S32324	Dil: 100

AIC No. 157321-27

Sample Identification: SC1-1D 4/25/12 09:50

Analyte		Result	RL	Units	Qualifier
Alkalinity as CaCO₃		6.8	1	mg/l	
SM 2320B		Analyzed: 03-May-2012 0946 by 93		Batch: W39710	

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ANALYTICAL RESULTS

AIC No. 157321-27 (Continued)

Sample Identification: SC1-1D 4/25/12 09:50

<u>Analyte</u>		<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Total Dissolved Solids		28	10	mg/l	
SM 2540C	Prep: 02-May-2012 0837 by 285	Analyzed: 03-May-2012 1130 by 285		Batch: W39698	
Calcium		3.2	0.1	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 04-May-2012 0302 by 297		Batch: S32329	
Magnesium		0.94	0.03	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 04-May-2012 0302 by 297		Batch: S32329	
Potassium		< 1	1	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 04-May-2012 0302 by 297		Batch: S32329	
Sodium		1.4	1	mg/l	
EPA 200.7	Prep: 30-Apr-2012 0849 by 271	Analyzed: 04-May-2012 0302 by 297		Batch: S32329	
Chloride		1.8	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 30-Apr-2012 0335 by 07		Batch: S32324	
Sulfate		4.5	0.2	mg/l	
EPA 300.0	Prep: 27-Apr-2012 1341 by 07	Analyzed: 30-Apr-2012 0335 by 07		Batch: S32324	

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DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Total Dissolved Solids	157254-1	570 mg/l			30Apr12 1055 by 285	02May12 1410 by 285		
	Batch: W39682 Duplicate	580 mg/l	0.698	10.0	30Apr12 1055 by 285	02May12 1410 by 285		
Total Dissolved Solids	157277-1	210 mg/l			30Apr12 1055 by 285	02May12 1410 by 285		
	Batch: W39682 Duplicate	210 mg/l	3.58	10.0	30Apr12 1055 by 285	02May12 1410 by 285		
Alkalinity as CaCO ₃	157253-1	310 mg/l				01May12 0914 by 93		
	Batch: W39687 Duplicate	320 mg/l	2.56	20.0		01May12 0915 by 93		
Total Dissolved Solids	157321-18	120 mg/l			02May12 0837 by 285	03May12 1130 by 285		
	Batch: W39698 Duplicate	120 mg/l	2.13	10.0	02May12 0837 by 285	03May12 1130 by 285		
Total Dissolved Solids	157321-19	100 mg/l			02May12 0837 by 285	03May12 1130 by 285		
	Batch: W39698 Duplicate	100 mg/l	4.42	10.0	02May12 0837 by 285	03May12 1130 by 285		
Alkalinity as CaCO ₃	157317-1	520 mg/l				03May12 0946 by 93		
	Batch: W39710 Duplicate	510 mg/l	0.777	20.0		03May12 1945 by 93		

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Calcium	10 mg/l	99.9	85.0-115			S32325	27Apr12 1443 by 271	01May12 1632 by 270		
Calcium	10 mg/l	103	85.0-115			S32329	30Apr12 0850 by 271	30Apr12 2007 by 297		
Magnesium	10 mg/l	99.8	85.0-115			S32325	27Apr12 1443 by 271	01May12 1632 by 270		
Magnesium	10 mg/l	104	85.0-115			S32329	30Apr12 0850 by 271	30Apr12 2007 by 297		
Potassium	10 mg/l	97.5	85.0-115			S32325	27Apr12 1443 by 271	01May12 1632 by 270		
Potassium	10 mg/l	97.2	85.0-115			S32329	30Apr12 0850 by 271	30Apr12 2007 by 297		
Sodium	10 mg/l	105	85.0-115			S32325	27Apr12 1443 by 271	01May12 1632 by 270		
Sodium	10 mg/l	107	85.0-115			S32329	30Apr12 0850 by 271	30Apr12 2007 by 297		
Chloride	20 mg/l	100	90.0-110			S32317	27Apr12 0934 by 07	27Apr12 1040 by 07		
Chloride	20 mg/l	102	90.0-110			S32324	27Apr12 1342 by 07	28Apr12 0628 by 07		
Sulfate	20 mg/l	97.2	90.0-110			S32317	27Apr12 0934 by 07	27Apr12 1040 by 07		
Sulfate	20 mg/l	100	90.0-110			S32324	27Apr12 1342 by 07	28Apr12 0628 by 07		

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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Calcium	157321-1	10 mg/l	97.1	75.0-125	S32325	27Apr12 1443 by 271	01May12 1634 by 270		
	157321-1	10 mg/l	101	75.0-125	S32325	27Apr12 1443 by 271	01May12 1637 by 270		
	Relative Percent Difference:		3.12	20.0	S32325				
Calcium	157321-21	10 mg/l	106	75.0-125	S32329	30Apr12 0850 by 271	30Apr12 2010 by 297		
	157321-21	10 mg/l	101	75.0-125	S32329	30Apr12 0850 by 271	30Apr12 2013 by 297		
	Relative Percent Difference:		2.63	20.0	S32329				
Magnesium	157321-1	10 mg/l	97.0	75.0-125	S32325	27Apr12 1443 by 271	01May12 1634 by 270		
	157321-1	10 mg/l	101	75.0-125	S32325	27Apr12 1443 by 271	01May12 1637 by 270		
	Relative Percent Difference:		3.18	20.0	S32325				
Magnesium	157321-21	10 mg/l	107	75.0-125	S32329	30Apr12 0850 by 271	30Apr12 2010 by 297		
	157321-21	10 mg/l	104	75.0-125	S32329	30Apr12 0850 by 271	30Apr12 2013 by 297		
	Relative Percent Difference:		1.71	20.0	S32329				
Potassium	157321-1	10 mg/l	98.4	75.0-125	S32325	27Apr12 1443 by 271	01May12 1634 by 270		
	157321-1	10 mg/l	102	75.0-125	S32325	27Apr12 1443 by 271	01May12 1637 by 270		
	Relative Percent Difference:		3.79	20.0	S32325				
Potassium	157321-21	10 mg/l	102	75.0-125	S32329	30Apr12 0850 by 271	30Apr12 2010 by 297		
	157321-21	10 mg/l	101	75.0-125	S32329	30Apr12 0850 by 271	30Apr12 2013 by 297		
	Relative Percent Difference:		1.16	20.0	S32329				
Sodium	157321-1	10 mg/l	102	75.0-125	S32325	27Apr12 1443 by 271	01May12 1634 by 270		
	157321-1	10 mg/l	106	75.0-125	S32325	27Apr12 1443 by 271	01May12 1637 by 270		
	Relative Percent Difference:		2.75	20.0	S32325				
Sodium	157321-21	10 mg/l	112	75.0-125	S32329	30Apr12 0850 by 271	30Apr12 2010 by 297		
	157321-21	10 mg/l	103	75.0-125	S32329	30Apr12 0850 by 271	30Apr12 2013 by 297		
	Relative Percent Difference:		6.63	20.0	S32329				
Chloride	157314-1	20 mg/l	92.2	80.0-120	S32317	27Apr12 0934 by 07	27Apr12 1106 by 07		
	157314-1	20 mg/l	93.8	80.0-120	S32317	27Apr12 0934 by 07	27Apr12 1132 by 07		
	Relative Percent Difference:		1.10	10.0	S32317				
Chloride	157321-17	20 mg/l	102	80.0-120	S32324	27Apr12 1342 by 07	28Apr12 0654 by 07		
	157321-17	20 mg/l	102	80.0-120	S32324	27Apr12 1342 by 07	28Apr12 0720 by 07		
	Relative Percent Difference:		0.408	10.0	S32324				
Sulfate	157314-1	20 mg/l	95.3	80.0-120	S32317	27Apr12 0934 by 07	27Apr12 1106 by 07		
	157314-1	20 mg/l	97.0	80.0-120	S32317	27Apr12 0934 by 07	27Apr12 1132 by 07		
	Relative Percent Difference:		1.71	10.0	S32317				
Sulfate	157321-17	20 mg/l	101	80.0-120	S32324	27Apr12 1342 by 07	28Apr12 0654 by 07		
	157321-17	20 mg/l	100	80.0-120	S32324	27Apr12 1342 by 07	28Apr12 0720 by 07		
	Relative Percent Difference:		0.623	10.0	S32324				

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LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Alkalinity as CaCO ₃	< 1 mg/l	1	1	W39687-1		01May12 0915 by 93	
Alkalinity as CaCO ₃	< 1 mg/l	1	1	W39710-1		03May12 0946 by 93	
Total Dissolved Solids	< 10 mg/l	10	10	W39682-1	30Apr12 1055 by 285	02May12 1410 by 285	
Total Dissolved Solids	< 10 mg/l	10	10	W39698-1	02May12 0837 by 285	03May12 1130 by 285	
Calcium	< 0.1 mg/l	0.1	0.1	S32325-1	27Apr12 1443 by 271	01May12 1629 by 270	
Magnesium	< 0.03 mg/l	0.03	0.03	S32325-1	27Apr12 1443 by 271	01May12 1629 by 270	
Potassium	< 1 mg/l	1	1	S32325-1	27Apr12 1443 by 271	01May12 1629 by 270	
Sodium	< 1 mg/l	1	1	S32325-1	27Apr12 1443 by 271	01May12 1629 by 270	
Calcium	< 0.1 mg/l	0.1	0.1	S32329-1	30Apr12 0850 by 271	30Apr12 2004 by 297	
Magnesium	< 0.03 mg/l	0.03	0.03	S32329-1	30Apr12 0850 by 271	30Apr12 2004 by 297	
Potassium	< 1 mg/l	1	1	S32329-1	30Apr12 0850 by 271	30Apr12 2004 by 297	
Sodium	< 1 mg/l	1	1	S32329-1	30Apr12 0850 by 271	30Apr12 2004 by 297	
Chloride	< 0.2 mg/l	0.2	0.2	S32317-1	27Apr12 0934 by 07	27Apr12 1014 by 07	
Sulfate	< 0.2 mg/l	0.2	0.2	S32317-1	27Apr12 0934 by 07	27Apr12 1014 by 07	
Chloride	< 0.2 mg/l	0.2	0.2	S32324-1	27Apr12 1342 by 07	28Apr12 0603 by 07	
Sulfate	< 0.2 mg/l	0.2	0.2	S32324-1	27Apr12 1342 by 07	28Apr12 0603 by 07	



1 2 3 4 5 6 7 8



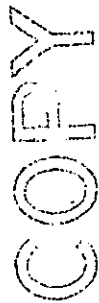
(57321)

Date 4/27/12	Project Name DIM	Project No. 6750-105	Project Manager (Print) Jim Malcolm	Page <u>8</u> of <u>Y</u>
Report / Bill to: FTN Associates		Submitted by: FTN Associates, Ltd. 3 Innwood Circle, Suite 220 Little Rock, AR 72211 (501) 225-7779 • Fax (501) 225-6738		
Sampler Signature(s) 		Recorded By (Print) Jimmy Rogers		
SAMPLE DESCRIPTION				
Sample Identification	Date	Time	Matrix* W S O	No. of Containers
REY-3	4/24/12	1745	X	2
SCL-0	4/25/12	0805	X	2
SCL-1	4/25/12	0945	X	2
COV-1	4/25/12	1215	X	2
COV-1B	4/26/12	1455	X	2
COV-2	4/26/12	1345	X	2
COV-3	4/24/12	1530	X	2
COV-4	4/24/12	1330	X	2
Container Type				
Preservative				
* Matrix: W = Water S = Soil O = Other G = Glass P = Plastic H = HCl to pH2 NO = None S = Sulfuric acid pH2 N = Nitric acid pH2 B = NaOH to pH12 T = Sodium Thiosulfate Z = Zinc acetate				
Relinquished By (Signature) 	Print Name Jimmy Rogers	Date 4-27-12	Time 1020	Received By (Signature)
Relinquished By (Signature) 	Print Name Shana Purchase	Date 4-27-12	Time 1022	Received By (Signature)
Sampler Remarks: Please e-mail results to: jim@ftn-assoc.com, pid@ftn-assoc.com, jir@ftn-assoc.com				



157321

Date 4/27/12	Project Name DIM	Project No. 6750-105	Project Manager (Print) Jim Malcolm	Page 3 of 4
Report / Bill to: FTN Associates Phone:		Submitted by: FTN Associates, Ltd. 3 Innwood Circle, Suite 220 Little Rock, AR 72211 (501) 225-7779 • Fax (501) 225-6738		
Sampler Signature(s) 		Recorded By (Print) Jimmy Rogers		
SAMPLE DESCRIPTION				
Sample Identification	Date	Time	Matrix* W S O	No. of Containers
SQC@51	4/25/12	1320	X	2
CRL-4B	4/26/12	0810	X	2
CRL-4S	4/26/12	0812	X	2
CRL-1B	4/26/12	0830	X	2
CRL-1S	4/26/12	0832	X	2
Pit Profile 1	4/26/12	1030	X	2
Pit Profile 2	4/26/12	1035	X	2
Pit Profile 3	4/26/12	1040	X	2
Container Type Preservative				
* Matrix: W = Water S = Soil O = Other G = Glass P = Plastic H = HCl to pH2 NO = None S = Sulfuric acid pH2 N = Nitric acid pH2 B = NaOH to pH12				
Relinquished By (Signature) 	Print Name Jimmy Rogers	Date 4-27-12	Time 1000	Received By (Signature)
Relinquished By (Signature) 	Print Name Dana Dechare	Date 4-27-12	Time 1022	Received By (Signature)
Sampler Remarks: Please e-mail results to: jim@ftn-assoc.com, pid@ftn-assoc.com, jir@ftn-assoc.com				



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