

**2011 ANNUAL
ROUTINE GROUNDWATER MONITORING**

SITE NO. 13688

SEACO, INC.

COLUMBIA, SOUTH CAROLINA

2011 ANNUAL ROUTINE GROUNDWATER MONITORING

SITE NO. 13688

SEACO, INC.

COLUMBIA, SC

DAVIS & FLOYD, INC. JOB NUMBER 005894.07

JULY 2011

PREPARED BY

DAVIS & FLOYD, INC.

ENVIRONMENTAL DIVISION

GREENWOOD, SOUTH CAROLINA

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Davis & Floyd, Inc. • P.O. Drawer 428 Greenwood, SC 29648 • 816 East Durst Avenue Greenwood, SC 29649 • (864) 229-4413 (office) (864) 229-7119 (fax)

July 27, 2011

Serial No.: LML-048-11

File No.: 005894.07

Ms. Bobbi Coleman
Division of Site Assessment, Remediation & Revitalization
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, SC 29201

Reference: Results of Routine Groundwater Monitoring on June 21, 2011
Seaco, Inc., Site No. 13688, Columbia, SC

Dear Ms. Coleman:

On behalf of Seaco, Inc., the purpose of this letter is to provide the results of the latest routinely scheduled groundwater monitoring event at Seaco, Inc. Please find enclosed the Laboratory Analysis Report dated July 6, 2011, for naphthalene in groundwater samples collected on June 21, 2011, including the chain-of-custody documentation and field data sheets. No free product was detected in any of the six wells that were sampled. A site map, Figure 1, is included. Also attached are tables summarizing water quality (Table 1) and groundwater levels (Table 2), a hydrograph (Figure 2), a graph of free product thickness through time (Figure 3) and a potentiometric surface map (Figure 4). A computer disk of this report is also included.

We appreciate the opportunity to provide this information to you on behalf of Seaco, Inc. Should you have questions or require additional information, please contact Mr. Joe Reynolds, Seaco, Inc., (803)799-5335 or me.

Sincerely,

DAVIS & FLOYD, INC.



Thomas G. Jordan, P.E.
Vice-President, Environmental Division



LML/ptl

- Enclosures:
1. Laboratory Analysis Report
 2. Figure 1 (Site Map)
 3. Table 1 (Water Quality)
 4. Table 2 (Groundwater Levels)
 5. Figure 2 (Hydrograph)
 6. Figure 3 (Graph)
 7. Figure 4 (Potentiometric Map)
 8. A CD of the 2011 Semi-Annual Environmental Monitoring Report

cc: Mr. Joe Reynolds

TABLE 1										
SUMMARY OF GROUNDWATER QUALITY DATA, 1992 to Present										
SEACO, INC., COLUMBIA, SC										
WELL NO.	SAMPLE DATE	Benzene	Toluene	Ethyl-benzene	Xylenes (total)	Naphthalene	Benzo (a) Anthracene	Benzo (b) Fluoranthene	Benzo (k) Fluoranthene	Dibenz (a,h) Anthracene
	MCL-	5	1000	700	10000					
MW-1	05/06/92	BDL	BDL	7	BDL	33				
	12/01/92	BDL	BDL	5	BDL	20				
	08/02/94	BDL	BDL	BDL	BDL	10.9				
	09/04/96	BDL	BDL	2.6	2	35.3				
	06/24/97	<1.0	<1.0	1.4	1.1	24.9				
	12/03/97	<1.0	<1.0	1.3	<1.0	28.2				
	04/24/98									
	11/12/98									
	06/29/99									
	05/24/00	<1.0	<1.0	3.3	2.2	54.3				
	11/19/01	NOT SAMPLED - Product layer = 1.44 feet								
	03/26/02									
	05/30/03					11.4 (8.9)				
	05/26/04					9.9				
	06/20/05					<5.0				
	06/20/06					<5.0				
	05/30/07					<5.0				
	06/30/08					<5.0				
	05/26/09					<5.0				
	05/26/10					<5.0	BDL	BDL	BDL	BDL
	06/21/11					<5.0				
MW-2	05/06/92	18	23	18	77	11				
	12/01/92	10	9	13	29	12				
	08/02/94	1.1	BDL	2.5	5.5	BDL				
	09/04/96	2.6	1	4.3	8	13.8				
	06/24/97	<5.0	<5.0	12.3	43.4	43.5				
	12/03/97	2.3	1	8.3	18.4	20.2				
	04/24/98									
	11/12/98									
	06/29/99									
	05/24/00	NOT SAMPLED - Product layer = 2.39 feet								
	11/19/01	NOT SAMPLED - Product layer = 2.13 feet								
	03/26/02									
	05/30/03	NOT SAMPLED - Product layer = 0.10 feet								
	05/26/04	NOT SAMPLED - Product layer = 0.16 feet								
	06/20/05	NOT SAMPLED - Product layer = 0.03 feet								
	06/20/06	NOT SAMPLED - Product layer = 0.1 feet								
	05/30/07					11.3				
	06/30/08					40				
	05/26/09					BDL				
	05/26/10					8.32	BDL	BDL	BDL	BDL
	06/21/11					33.7				
MW-3	05/06/92	37	BDL	17	22	9J				
	12/01/92	6	BDL	7	BDL	BDL				
	08/02/94	11.9	BDL	12.2	3.5	BDL				
	09/04/96	5.6	BDL	20.3	13	53.6				
	06/24/97	5.9	<5.0	25.2	32	344				
	12/03/97	5.7	<3.0	20.1	16.3	151				
	04/24/98	<1.0	<1.0	4.3	7.4	106				
	11/12/98	<1.0	<1.0	5.5	<3.0	5.7				
	06/29/99	1.2 XJ	<2.0 X	8.9 X	13.8	210				
	05/24/00	NOT SAMPLED - Product layer = 0.03 feet								
	11/19/01	NOT SAMPLED - Product layer = 1.03 feet								
	03/26/02 *	2.1	<1.0	10.5	4.9	45.1				
	05/30/03					58.5				
	05/26/04					95.7 (95.3)				
	06/20/05					83.8				
	06/20/06					75.4				
	05/30/07					69.8				
	06/30/08					21.7				
	05/26/09					34.7				
	05/26/10					89.2	BDL	BDL	BDL	BDL
	06/21/11					54.2				

TABLE 1										
SUMMARY OF GROUNDWATER QUALITY DATA, 1992 to Present										
SEACO, INC., COLUMBIA, SC										
WELL NO.	SAMPLE DATE	Benzene	Toluene	Ethyl-benzene	Xylenes (total)	Naphthalene	Benzo (a) Anthracene	Benzo (b) Fluoranthene	Benzo (k) Fluoranthene	Dibenz (a,h) Anthracene
	MCL-	5	1000	700	10000					
PW-5	05/06/92									
	12/01/92									
	08/02/94									
	09/04/96	5.1	BDL	13.2	9.8	36				
	06/24/97	2.9	<1.0	12.2	10.1	32.8				
	12/03/97	5.2	1.5	23.4	30.7	62.4				
	04/24/98	4.7	2.1	20.6	17.8	66.3				
	11/12/98	2.4	<1.0	14.7	7.1	18.4				
	06/29/99	<1.0	<1.0	<1.0	<1.0	<3.0				
	05/24/00	NOT SAMPLED - Product layer = 0.25 feet								
	11/19/01	NOT SAMPLED - Product layer = 0.83 feet								
	03/26/02									
	05/30/03					64.8				
	05/26/04					62.7				
	06/20/05					42				
	06/20/06					26.5				
	05/30/07					<5.0				
	06/30/08					19.4				
	05/26/09					56.1				
	05/26/10					72.9	BDL	BDL	BDL	BDL
	06/21/11					135				
PW-6	05/06/92									
	12/01/92									
	08/02/94	BDL	BDL	15.7E	12.6E	12.1				
	09/04/96	BDL	BDL	10.6	3.7	6				
	06/24/97	<1.0	<1.0	7.8	<1.0	3.9				
	12/03/97	<1.0	<1.0	3.6	<3.0	4				
	04/24/98									
	11/12/98									
	06/29/99	2.5	<1.0	25.7	18.7	117				
	05/24/00	<1.0	<1.0	<1.0	<1.0	<5.0				
	11/19/01	<1.0 (<1.0)	<1.0 (<1.0)	<1.0 (<1.0)	<3.0 (<3.0)	<5.0 (<5.0)				
	03/26/02									
	05/30/03					7.3				
	05/26/04					<5.0				
	06/20/05					<5.0				
	06/20/06					<5.0				
	05/30/07					20.8				
	06/30/08					<5.0				
	05/26/09					<5.0				
	05/26/10					<5.0	BDL	BDL	BDL	BDL
	06/21/11					<5.0				
NOTES: 1. Samples collected and analyzed by D&F.										
2. All concentrations reported in micrograms per liter (ug/l).										
3. BDL indicates concentration below detection limit.										
4. Blank cell indicates sampling not required on that date.										
5. J indicates estimated value below detection limit.										
6. Shading indicates concentration over maximum contaminant level (MCL).										
7. Values in parentheses are from a duplicate sample.										
8. * - March 26, 2002 special sampling from wells with greatest amount of free product.										

Table 2. SUMMARY OF WATER/LNAPL LEVELS

SEACO, INC., COLUMBIA, SOUTH CAROLINA

WELL NO.	DATE MEASURED	MEASURING POINT (loc) ELEVATION	DEPTH TO WATER	DEPTH TO LNAPL	UNCORRECTED	CORRECTED	LNAPL ELEVATION	LNAPL THICKNESS
					GROUNDWATER ELEVATION	GROUNDWATER ELEVATION		
MW-1	05/06/92	195.09	7.80		187.29	187.29		
	12/01/92		6.36		188.73	188.73		
	08/02/94		6.34		188.75	188.75		
	09/04/96		6.82		188.27	188.27		
	06/24/97		7.38		187.71	187.71		
	12/03/97		6.25		188.84	188.84		
	04/24/98							
	11/12/98							
	06/29/99		7.36		187.73	187.73		
	05/24/00		8.05		187.04	187.04		
	11/19/01		11.05	9.61	184.04	185.45	185.48	1.44
	03/26/02		10.39	9.35	184.70	185.72	185.74	1.04
	05/30/03		5.88		189.21	189.21		0.00
	05/26/04		8.12		186.97	186.97		
	06/20/05		7.51		187.58	187.58		
	06/20/06		7.45		187.64	187.64		
	05/30/07		8.11		186.98	186.98		
	06/30/08		8.31		186.78	186.78		
	05/26/09		6.97		188.12	188.12		
	05/26/10		7.02		188.07	188.07		
06/21/11	8.46		186.63	186.63				
MW-2	05/06/92	194.65	7.45		187.20	187.20		
	12/01/92		6.00		188.65	188.65		
	08/02/94		5.99		188.66	188.66		
	09/04/96		6.41		188.24	188.24		
	06/24/97		7.08	6.96	187.57	187.69	188.13	0.12
	12/03/97		5.98	5.80	188.67	188.85	189.29	0.18
	04/24/98							
	11/12/98							0.27
	06/29/99		7.14	6.81	187.51	187.83	188.28	0.33
	05/24/00		9.95	7.56	184.70	187.04	187.53	2.39
	11/19/01		11.13	9.00	183.52	185.61	186.09	2.13
	03/26/02		12.15	9.01	182.50	185.58	186.08	3.14
	05/30/03		5.48	5.38	189.17	189.27	189.71	0.10
	05/26/04		8.33	8.17	186.32	186.48	186.92	0.16
	06/20/05		7.13	7.1	187.52	187.55	187.99	0.03
	06/20/06		7.18	7.08	187.47	187.57	188.01	0.10
	05/30/07		7.83	7.67	186.82	186.98	187.42	0.16
	06/30/08		7.77	7.74	186.88	186.91	187.35	0.03
	05/26/09		6.7	6.5	187.95	188.15	188.59	0.20
	05/26/10		6.36		188.29	188.29		
06/21/11	8.15		186.50	186.50				
MW-3	05/06/92	194.94	7.55		187.39	187.39		
	12/01/92		6.13		188.81	188.81		
	08/02/94		6.11		188.83	188.83		
	09/04/96		6.75		188.19	188.19		
	06/24/97		7.71	7.24	187.23	187.69	187.85	0.47
	12/03/97		6.45	6.15	188.49	188.78	188.94	0.30
	04/24/98		6.26	5.29	188.68	189.63	189.80	0.97
	11/12/98		7.79	7.74	187.15	187.20	187.35	0.05
	06/29/99		7.47	7.20	187.47	187.73	187.89	0.27
	05/24/00		8.00	7.97	186.94	186.97	187.12	0.03
	11/19/01		10.45	9.42	184.49	185.50	185.67	1.03
	03/26/02		10.41	9.12	184.53	185.79	185.97	1.29
	05/30/03		5.74		189.20	189.20		0.00
	05/26/04		7.94		187.00	187.00		
	06/20/05		7.34		187.60	187.60		
	06/20/06		7.23		187.71	187.71		
	05/30/07		7.93		187.01	187.01		
	06/30/08		8.13		186.81	186.81		
	05/26/09		6.77		188.17	188.17		
	05/26/10		6.81		188.13	188.13		
06/21/11	8.37		186.57	186.57				

Table 2. SUMMARY OF WATER/LNAPL LEVELS

SEACO, INC., COLUMBIA, SOUTH CAROLINA

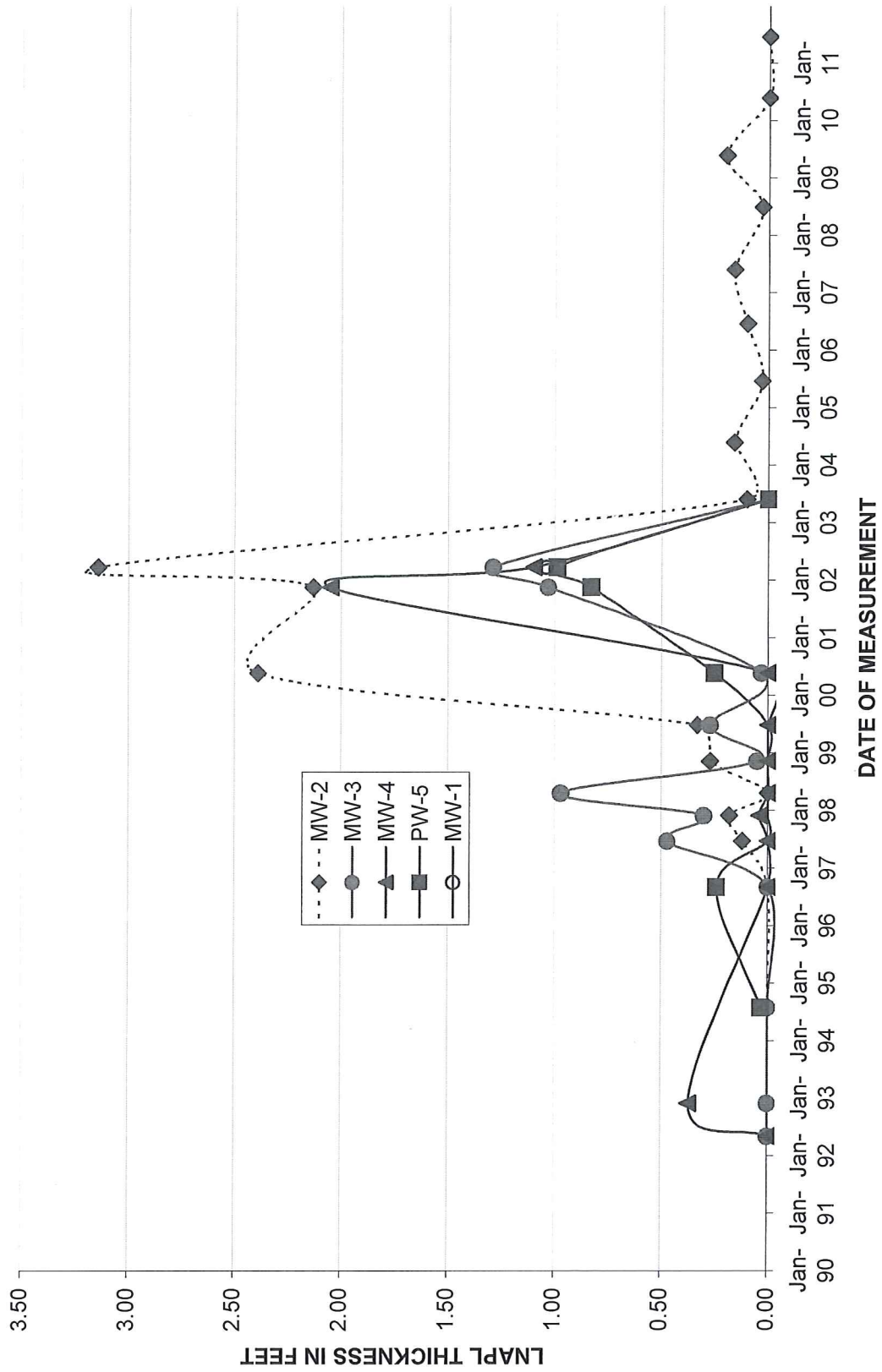
WELL NO.	DATE MEASURED	MEASURING POINT (to) ELEVATION	DEPTH TO WATER	DEPTH TO LNAPL	UNCORRECTED CORRECTED		LNAPL ELEVATION	LNAPL THICKNESS
					GROUNDWATER ELEVATION	GROUNDWATER ELEVATION		
MW-4	05/06/92	194.86	7.35		187.51	187.51		
	12/01/92		6.30	5.93	188.56	188.92	189.16	0.37
	09/04/96		6.54		188.32	188.32		
	06/24/97		6.94		187.92	187.92		
	12/03/97		5.86	5.82	189.00	189.04	189.27	0.04
	04/24/98							
	11/12/98							
	06/29/99		6.88		187.98	187.98		
	05/24/00		7.68		187.18	187.18		
	11/19/01		11.25	9.20	183.61	185.62	185.89	2.05
	03/26/02		10	8.9	184.86	185.94	186.19	1.10
	05/30/03		5.49		189.37	189.37		0.00
	05/26/04		7.71		187.15	187.15		
	06/20/05		7.11		187.75	187.75		
	06/20/06		7.1		187.76	187.76		
	05/30/07		7.71		187.15	187.15		
	06/30/08		7.9		186.96	186.96		
05/26/09	6.48		188.38	188.38				
05/26/10	6.59		188.27	188.27				
06/21/11	8.14		186.72	186.72				
MW-5	05/06/92	197.82	10.35		187.47	187.47		
	12/01/92		8.97		188.85	188.85		
	06/24/97		9.93		187.89	187.89		
	12/03/97		8.88		188.94	188.94		
	04/24/98							
	11/12/98							
	06/29/99		9.99		187.83	187.83		
	05/24/00		10.51		187.31	187.31		
	11/19/01		12.29		185.53	185.53		
	03/26/02		12.08		185.74	185.74		
	05/30/03		8.5		189.32	189.32		
	05/26/04		10.69		187.13	187.13		
	06/20/05		10.11		187.71	187.71		
	06/20/06		10.05		187.77	187.77		
	05/30/07		10.68		187.14	187.14		
	06/30/08		10.9		186.92	186.92		
	05/26/09		10.53		187.29	187.29		
05/26/10	9.6		188.22	188.22				
06/21/11	10.57		187.25	187.25				
MW-6	05/06/92	198.73	11.30		187.43	187.43		
	12/01/92		9.90		188.83	188.83		
	06/24/97		10.90		187.83	187.83		
	12/03/97		9.93		188.80	188.80		
	04/24/98		8.64		190.09	190.09		
	11/12/98		11.17		187.56	187.56		
	06/29/99		11.00		187.73	187.73		
	05/24/00		11.36		187.37	187.37		
	11/19/01		12.95		185.78	185.78		
	03/26/02		12.96		185.77	185.77		
	05/30/03		9.34		189.39	189.39		
	05/26/04		11.51		187.22	187.22		
	06/20/05		11.00		187.73	187.73		
	06/20/06		11.29		187.44	187.44		
	05/30/07		11.47		187.26	187.26		
	06/30/08		11.83		186.90	186.90		
	05/26/09		10.76		187.97	187.97		
05/26/10	10.51		188.22	188.22				
06/21/11	11.27		187.46	187.46				

Table 2. SUMMARY OF WATER/LNAPL LEVELS

SEACO, INC., COLUMBIA, SOUTH CAROLINA

WELL NO.	DATE MEASURED	MEASURING POINT (loc) ELEVATION	DEPTH TO WATER	DEPTH TO LNAPL	UNCORRECTED CORRECTED		LNAPL ELEVATION	LNAPL THICKNESS
					GROUNDWATER ELEVATION	GROUNDWATER ELEVATION		
PW-5	08/02/94	(UNK)	9.99	9.96				0.03
	09/04/96		9.59	9.35				0.24
	06/24/97		9.88					
	12/03/97		8.79					
	04/24/98		8.57					
	11/12/98		10.41					
	06/29/99		9.80					
	05/24/00		10.80	10.55				0.25
	11/19/01		11.27	10.44				0.83
	03/26/02		12.89	11.9				0.99
	05/30/03		8.44					0.00
	05/26/04		10.63					
	06/20/05		9.99					
	06/20/06		9.85					
	05/30/07		10.63					
	06/30/08		10.89					
	05/26/09		9.32					
05/26/10		9.52						
06/21/11		11.07						
PW-6	08/02/94	(UNK)	8.90					
	09/04/96		9.08					
	06/24/97		9.60					
	12/03/97		8.51					
	04/24/98							
	11/12/98							
	06/29/99		9.47					
	05/24/00		10.32					
	11/19/01		12.04					
	03/26/02		8.23					
	05/30/03		10.38					
	06/20/05		9.77					
	06/20/06		9.55					
	07/30/07		10.36					
	06/30/08		10.59					
05/26/09		9.06						
05/26/10		9.26						
06/21/11		10.81						
IGWA-1	11/12/98	(UNK)	11.73					
	06/29/99		10.97					
	05/24/00		11.33					
	11/19/01		13.01					
	03/26/02							
	05/30/03		9.39					
	05/26/04		11.4					
	06/20/05		10.91					
	06/20/06		11.06					
	05/30/07		11.41					
	06/30/08		11.74					
	05/26/09		10.61					
	05/26/10		10.48					
06/21/11		11.33						
NOTES:	1. Elevations surveyed by D&F relative to arbitrary datum.							
	2. All measurements shown in feet.							
	3. Measuring point is top of PVC well casing.							
	4. Groundwater Elevation Correction =							
	(0.98 x thickness of LNAPL) + Groundwater Elevation							

Figure 3. LNAPL THICKNESS VS. TIME
SEACO, INC., COLUMBIA, SC



July 06, 2011

JOE REYNOLDS
SEACO, INC.
2700 WILLIAM TULLER DRIVE
COLUMBIA, SC 29205

Report ID : AJ1620
Page 1 of 9

Login Number :L11062201
Project Number :5894.07
Description :GROUNDWATER SAMPLING & ANALYSIS

Dear Joe Reynolds:

We are pleased to provide the enclosed analytical results for the samples received by Davis & Floyd, Inc. on June 21, 2011.

A formal Quality Assurance/Quality Control program is maintained by Davis & Floyd, which is designed to meet or exceed the EPA, NELAC or other appropriate regulatory requirements. All analytical analyses for this project met QA/QC criteria and the results are within the 99% confidence interval for each method unless otherwise stated in the footnotes. This report is to be reproduced only in full.

Feel free to contact our Client Services Representative at (864) 229-4413 if further explanation of the analysis is required. Unless other arrangements have been made, samples will be disposed of or returned 14 days from the date of the report. We appreciate the opportunity to provide services to your firm.

Sincerely,
DAVIS & FLOYD, INC.



John H. McCord, Jr.
Laboratory Manager

This report contains a TOTAL of 18 pages, including attachments.

Initials: 

SC Certification Number: 24110001

Client : SEACO, INC.
2700 WILLIAM TULLER DRIVE
COLUMBIA, SC 29205
Contact : JOE REYNOLDS

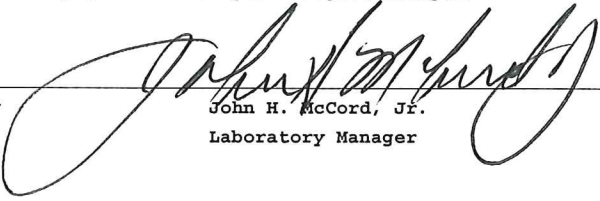
Project Number: 5894.07
Report Date : July 06, 2011
Page 2 of 9 Report ID: AJ1620

Certificate of Analysis Report

Sample ID	Client ID	Date Collected	Date Received
L11062201-01	PW-6	06/21/2011 1130	06/21/2011
L11062201-02	PW-5	06/21/2011 1203	06/21/2011
L11062201-03	MW-4	06/21/2011 1225	06/21/2011
L11062201-04	MW-3	06/21/2011 1257	06/21/2011
L11062201-05	MW-1	06/21/2011 1315	06/21/2011
L11062201-06	MW-2	06/21/2011 1345	06/21/2011
L11062201-07	TRIP BLANK	06/20/2011 1800	06/21/2011

This data report has been prepared and reviewed in accordance with standard operating procedures. Test results relate only to the sample tested. Please direct any questions to your Project Manager.

Reviewed by


John H. McCord, Jr.
Laboratory Manager

SC Certification Number: 24110001

Client : SEACO, INC.
2700 WILLIAM TULLER DRIVE
COLUMBIA, SC 29205
Contact : JOE REYNOLDS

Project Number: 5894.07
Report Date : July 06, 2011
Page 3 of 9 Report ID: AJ1620

Certificate of Analysis

Client ID: PW-6
Sample ID: L11062201-01

Date Collected: 06/21/2011 1130
Date Received : 06/21/2011

Parameter	Result	Qual	RDL	Units
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Matrix : GW/ChemW

Field Data

SM 2550B

Date/Time: 06/21/2011 1130

Dilution: 1

TEMPERATURE	25.0		1.00	degrees C
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SW846 9040C

Date/Time: 06/21/2011 1130

Dilution: 1

PH	5.90		0.500	su
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SW846 9050A

Date/Time: 06/21/2011 1130

Dilution: 1

SPECIFIC CONDUCTIVITY	102		1.00	umhos/cm
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Volatile Organics

SW846 8260B

Date/Time: 06/22/2011 1557

Analyst: JLG

Dilution: 1

NAPHTHALENE	<	5.00	U	5.00	ug/l
Surr: 1,2-DICHLOROETHANE-D4		99 %		(68-149)	
Surr: BROMOFLUOROBENZENE		95 %		(81-134)	
Surr: TOLUENE-D8		96 %		(72-148)	

SC Certification Number: 24110001

Client : SEACO, INC.
2700 WILLIAM TULLER DRIVE
COLUMBIA, SC 29205
Contact : JOE REYNOLDS

Project Number: 5894.07
Report Date : July 06, 2011
Page 4 of 9 Report ID: AJ1620

Certificate of Analysis

Client ID: PW-5
Sample ID: L11062201-02

Date Collected: 06/21/2011 1203
Date Received : 06/21/2011

Parameter	Result	Qual	RDL	Units
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Matrix : GW/ChemW

Field Data

SM 2550B

Date/Time: 06/21/2011 1203

Dilution: 1

TEMPERATURE	26.0		1.00	degrees C
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SW846 9040C

Date/Time: 06/21/2011 1203

Dilution: 1

PH	5.20		0.500	su
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SW846 9050A

Date/Time: 06/21/2011 1203

Dilution: 1

SPECIFIC CONDUCTIVITY	67.0		1.00	umhos/cm
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Volatile Organics

SW846 8260B

Date/Time: 06/22/2011 1748

Analyst: JLG

Dilution: 1

NAPHTHALENE	135		5.00	ug/l
Surr: 1,2-DICHLOROETHANE-D4	100 %		(68-149)	
Surr: BROMOFLUOROBENZENE	96 %		(81-134)	
Surr: TOLUENE-D8	96 %		(72-148)	

SC Certification Number: 24110001

Client : SEACO, INC.
2700 WILLIAM TULLER DRIVE
COLUMBIA, SC 29205
Contact : JOE REYNOLDS

Project Number: 5894.07
Report Date : July 06, 2011
Page 5 of 9 Report ID: AJ1620

Certificate of Analysis

Client ID: MW-4
Sample ID: L11062201-03

Date Collected: 06/21/2011 1225
Date Received : 06/21/2011

Parameter	Result	Qual	RDL	Units
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Matrix : GW/ChemW

Field Data

SM 2550B

Date/Time:	Dilution: 1			
TEMPERATURE	26.0		1.00	degrees C

SW846 9040C

Date/Time: 06/21/2011 1225	Dilution: 1			
PH	6.10		0.500	su

SW846 9050A

Date/Time: 06/21/2011 1225	Dilution: 1			
SPECIFIC CONDUCTIVITY	245		1.00	umhos/cm

Volatile Organics

SW846 8260B

Date/Time: 06/22/2011 1720	Analyst: JLG	Dilution: 1		
NAPHTHALENE	5.51		5.00	ug/l
Surr: 1,2-DICHLOROETHANE-D4	100 %		(68-149)	
Surr: BROMOFLUOROBENZENE	96 %		(81-134)	
Surr: TOLUENE-D8	96 %		(72-148)	

SC Certification Number: 24110001

Client : SEACO, INC.
2700 WILLIAM TULLER DRIVE
COLUMBIA, SC 29205
Contact : JOE REYNOLDS

Project Number: 5894.07
Report Date : July 06, 2011
Page 6 of 9 Report ID: AJ1620

Certificate of Analysis

Client ID: MW-3
Sample ID: L11062201-04

Date Collected: 06/21/2011 1257
Date Received : 06/21/2011

Parameter	Result	Qual	RDL	Units
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Matrix : GW/ChemW

Field Data

SM 2550B

Date/Time: 06/21/2011 1257

Dilution: 1

TEMPERATURE	24.0		1.00	degrees C
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SW846 9040C

Date/Time: 06/21/2011 1257

Dilution: 1

PH	5.90		0.500	su
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SW846 9050A

Date/Time: 06/21/2011 1257

Dilution: 1

SPECIFIC CONDUCTIVITY	152		1.00	umhos/cm
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Volatile Organics

SW846 8260B

Date/Time: 06/22/2011 1815

Analyst: JLG

Dilution: 1

NAPHTHALENE	54.2		5.00	ug/l
Surr: 1,2-DICHLOROETHANE-D4	100 %		(68-149)	
Surr: BROMOFLUOROBENZENE	94 %		(81-134)	
Surr: TOLUENE-D8	94 %		(72-148)	

SC Certification Number: 24110001

Client : SEACO, INC.
2700 WILLIAM TULLER DRIVE
COLUMBIA, SC 29205
Contact : JOE REYNOLDS

Project Number: 5894.07
Report Date : July 06, 2011
Page 7 of 9 Report ID: AJ1620

Certificate of Analysis

Client ID: MW-1
Sample ID: L11062201-05

Date Collected: 06/21/2011 1315
Date Received : 06/21/2011

Parameter	Result	Qual	RDL	Units
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Matrix : GW/ChemW

Field Data

SM 2550B

Date/Time: 06/21/2011 1315

Dilution: 1

TEMPERATURE	24.0		1.00	degrees C
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SW846 9040C

Date/Time: 06/21/2011 1301

Dilution: 1

PH	5.90		0.500	su
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SW846 9050A

Date/Time: 06/21/2011 1315

Dilution: 1

SPECIFIC CONDUCTIVITY	299		1.00	umhos/cm
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Volatile Organics

SW846 8260B

Date/Time: 06/22/2011 1625

Analyst: JLG

Dilution: 1

NAPHTHALENE	<	5.00	U	5.00	ug/l
Surr: 1,2-DICHLOROETHANE-D4		100 %		(68-149)	
Surr: BROMOFLUOROBENZENE		94 %		(81-134)	
Surr: TOLUENE-D8		94 %		(72-148)	

SC Certification Number: 24110001

Client : SEACO, INC.
2700 WILLIAM TULLER DRIVE
COLUMBIA, SC 29205
Contact : JOE REYNOLDS

Project Number: 5894.07
Report Date : July 06, 2011
Page 8 of 9 Report ID: AJ1620

Certificate of Analysis

Client ID: MW-2
Sample ID: L11062201-06

Date Collected: 06/21/2011 1345
Date Received : 06/21/2011

Parameter	Result	Qual	RDL	Units
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Matrix : GW/ChemW

Field Data

SM 2550B

Date/Time: 06/21/2011 1345

Dilution: 1

TEMPERATURE

25.0

1.00

degrees C

SW846 9040C

Date/Time: 06/21/2011 1345

Dilution: 1

PH

5.90

0.500

su

SW846 9050A

Date/Time: 06/21/2011 1345

Dilution: 1

SPECIFIC CONDUCTIVITY

471

1.00

umhos/cm

Volatile Organics

SW846 8260B

Date/Time: 06/22/2011 1652

Analyst: JLG

Dilution: 1

NAPHTHALENE

33.7

5.00

ug/l

Surr: 1,2-DICHLOROETHANE-D4

101 %

(68-149)

Surr: BROMOFLUOROBENZENE

94 %

(81-134)

Surr: TOLUENE-D8

97 %

(72-148)

SC Certification Number: 24110001

Client : SEACO, INC.
2700 WILLIAM TULLER DRIVE
COLUMBIA, SC 29205
Contact : JOE REYNOLDS

Project Number: 5894.07
Report Date : July 06, 2011
Page 9 of 9 Report ID: AJ1620

Certificate of Analysis

Client ID: TRIP BLANK
Sample ID: L11062201-07

Date Collected: 06/20/2011 1800
Date Received : 06/21/2011

Parameter	Result	Qual	RDL	Units
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Matrix : GW/ChemW

Volatile Organics

SW846 8260B

Date/Time: 06/22/2011 1529	Analyst: JLG	Dilution: 1
NAPHTHALENE	<	5.00 U 5.00 ug/l
Surr: 1,2-DICHLOROETHANE-D4		102 % (68-149)
Surr: BROMOFLUOROBENZENE		95 % (81-134)
Surr: TOLUENE-D8		99 % (72-148)

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RDL	Report Detection Limit	MDL	Method Detection Limit
PQL	Practical Quantitation Limit	DL	Detection Limit
LOQ	Limit of Quantitation	LOD	Limit of Detection
SQL	Sample Quantitation Limit	TIC	Tentatively Identified Compound
C	Degrees Centigrade	F	Degrees Fahrenheit
umhos/cm	micromhos/cm	meq	milliequivalents
su	Standard Units		

mg/l, mg/kg Units of concentration in milligrams per liter for liquids and milligrams per kilogram for solids. Also referred to as Parts Per Million or "ppm".

ug/l, ug/kg Units of concentration in micrograms per liter for liquids and micrograms per kilograms for solids. Also referred to as Parts Per Billion or "ppb".

< Less Than

> Greater Than

Solid samples (i.e. soil, sludge, and solid waste) are reported on an as received basis unless otherwise noted.

Data Qualifiers:

- B** Analyte also detected in the method blank.
- C** Amendable Cyanide is a negative value due to an unknown interference.
- J** The reported result is an estimated value (eg matrix interference observed or concentration outside the quantitation range).
- N** Non-target analyte. The analyte is TIC (using mass spectrometry).
- P** Concentration difference between primary and confirmation columns >40%.
- Q** One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery or CCV)
- U** Final concentration is below the detection limit.
- *** Defined in report comments.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or biological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of the material involved, the test results will be meaningless. If you have any questions regarding the proper techniques of collecting samples, please contact us. However, we cannot be held responsible for sample integrity unless sampling has been performed by a member of our staff.

REPRESENTATION AND LIMITATION OF LIABILITY – The accuracy of all analytical results for samples begins as it is received by the laboratory. Integrity of the sample begins at the time it is placed in the possession of authorized Davis & Floyd, Inc. Laboratories personnel. All other warranties, expressed or implied, are disclaimed. Liability is limited to the cost of the analysis.

Client: SEACO, Inc. Columbia, SC
 Project / Site Location: 005894.07
 Laboratory Certification Numbers: SC - 24110, NC - 25, NELAP - E87633, TN - 2923, VA - 77
 816 E. Durst Avenue, Greenwood, SC 29649 (864) 229-4413 Fax: (864) 229-7119
 Email: Laboratory@davisfloyd.com Internet: www.davisfloyd.com

Collected By: Joe Reynolds
 Report To: Joe Reynolds
 Copy To: Laura Lumley
 Atmospheric Conditions: _____
 Reporting Requirements: [] Standard [] Data Package (Specify Level: 1 2 3 4)
 Turnaround Requirements: [] Standard [] Rush (Specify: _____)
 Required Parameters, Containers and Preservatives (P): _____

Office Use Only
 Laboratory Work Request
 PO / Quote Number: _____
 State: _____

Sample Description	Time	Date	Time	Date	Time	Date	Time	CONTAINERS		PARAMETERS	Field	3x40 G TFE	Naphthalene	Indicate any known or expected hazards with a "X".	Comments	Fraction
								Composite Type	Grab							
Trip Blank								X	5	2						07
PW-6		6-21-11	1830					X	5	7						01
PW-5		6-21-11	1203					X	5	4						02
PW-4		6-21-11	1225					X	5	4						03
PW-3		6-21-11	1257					X	5	4						04
PW-1		6-21-11	1315					X	5	4						05
PW-2		6-21-11	1345					X	5	4						06

Relinquished By: *[Signature]* Date: 6-21-11 Time: 1830
 Received By: *[Signature]* Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____
 Received in Laboratory By: *Max Price* Date: 6/21/11 Time: 1830

Shipped Via: D & F
 UPS FEDEX CLIENT COURIER OTHER
 Tracking Number: _____

Receipt Information
 Cooler ID (if available): _____
 On Ice: Yes/No Temp(C) 4
 Immediate Delivery: Yes/No
 Custody Seal: Intact / Broken None

Sample Chamber Temp. at Harvest: _____
 Circle: C or F
 Flow Measurement (Note 1)
 Beginning: _____ Time: _____
 Ending: _____
 Start Date: _____
 Multiplier: _____

Note: Indicate immediate delivery for those shipments in which the temperature does not have adequate time to reach 4°C

Comments: _____

Matrix Type Definitions: 1 - Drinking Water 2 - Clean Water 5 - Groundwater 7 - Soil/Sediment 8 - Liquid Sludge 9 - Oil 12 - Air
 (P) Preservative Definitions A - None B - H2SO4 C - HCl D - HNO3 E - NaOH F - Filtered G - Na2S2O3
 Davis & Floyd, Inc.
 FLO2_03 (04/10)

Field Data for Groundwater Sample Collection
 Groundwater Measurements

Well ID: PW-6

Client: SEACO, Inc.
 Site Name: Columbia, SC Job No.: 5894.07
 Date: 6/21/11 LWR submitted by: Laura Lumley
 Sampling Personnel: JLM
 Regulatory Personnel: N/A
 Weather Conditions: Clear Temp. (°C): 34
 Well Diameter: 4.0 in.
 (A) Top of Well Elevation: - ft. msl (yes/no)
 (B) Depth to Immiscible Layer: - ft.
 (C) Immiscible Layer Elevation: (A) - (B) = N/A ft. msl (yes/no)
 (D) Depth to Groundwater: 10.81 ft.
 (E) Groundwater Elevation: (A) - (D) = - ft. msl (yes/no)
 (F) Total Well Depth: 17.28 ft.
 (G) Length of Water Column: (F) - (D) = 6.47 ft.
 Casing Volume = (G) Volume in gal./ft. = 5.8 gals.
 Method of Well Evacuation BAIL Start Time: 1105
 Method of Sample Collection BAIL Time: 1130
 Chain of Custody Started: (yes) / no

Source(s) of Well ID MAP ID Label (yes/ no)
 Well Completion: Protective Casing (yes / no) Flush (yes/ no)
 Flush-Mount Cover Seal Intact (yes/no) Locking Cap (yes/ no)
 Locked at Arrival (yes / no) Departure (yes / no)
 Well Casing (height above / depth below) ground: 3.0 ft.
 Casing Type (PVC) (Steel) (Other) _____
 Dedicated Pump or Bailer (yes / no) Type _____
 Protective Post / Abutment (yes/ no) Concrete Pad (yes / no)
 Well Integrity: Satisfactory (yes / no) If no, explain below.
 Well Yield (low moderate high)

WELL VOLUME DATA			
Diameter of Tubing (in.)	Volume (gal. / ft.)	Diameter of Pipe (in.)	Volume (gal. / ft.)
1/8	0.0006	1.0	0.041
3/16	0.0014	2.0	0.163
1/4	0.0025	3.0	0.367
5/16	0.0039	4.0	0.653
3/8	0.0050	5.0	1.020
1/2	0.0100	6.0	1.470
3/4	0.0230	1 gallon/ft. = 3.8 liters/ft.	

Cylinder Volume (gal./ft.) = $\pi r^2 h \times 0.0043$
 Radius (r) and height (h) measured in inches.

Measurements	FIELD ANALYSES					
	First	Second	Third	Fourth	Fifth	()
Volume Purged (gallons)	<u>0.2</u>	<u>12.6</u>	<u>17.4</u>			
Time (military)	<u>1115</u>	<u>1123</u>	<u>1128</u>			
pH (S.U.)	<u>5.8</u>	<u>5.9</u>	<u>5.9</u>			
Specific Conductance (µmhos/cm)	<u>114</u>	<u>105</u>	<u>102</u>			
Water Temp. (°C)	<u>25</u>	<u>25</u>	<u>25</u>			
Odor (subjective) *	<u>2</u>	<u>3</u>	<u>2</u>			
Turbidity (subjective) **	<u>4</u>	<u>2</u>	<u>2</u>			

*(1)None (2)Slight (3)Moderate (4)Strong

** (1)Clear (2)Slightly Turbid (3)Moderately Turbid (4)Very Turbid (5)Extremely Turbid

Comments/Observations/Recommendations: _____

Completed by: [Signature] Date: 6-21-11

Field Data for Groundwater Sample Collection
Groundwater Measurements

Well ID: PW-5

Client: SEACO, Inc.
 Site Name: Columbia, SC Job No.: 5894.07
 Date: 6/21/11 LWR submitted by: Laura Lumley
 Sampling Personnel: JLM
 Regulatory Personnel: N/A
 Weather Conditions: Clear Temp. (°C): 34
 Well Diameter: 4.0 in.
 (A) Top of Well Elevation: - ft. msl (yes / no)
 (B) Depth to Immiscible Layer: - ft.
 (C) Immiscible Layer Elevation: (A) - (B) = N/A ft. msl (yes / no)
 (D) Depth to Groundwater: 11.07 ft.
 (E) Groundwater Elevation: (A) - (D) = - ft. msl (yes / no)
 (F) Total Well Depth: 17.08 ft.
 (G) Length of Water Column: (F) - (D) = 6.01 ft.
 Casing Volume = (G) Volume in gal./ft. = 3.93 gals.
 Method of Well Evacuation BAIL Start Time: 1145
 Method of Sample Collection BAIL Time: 1203
 Chain of Custody Started: (yes) / no)

Source(s) of Well ID MAP ID Label (yes (no))
 Well Completion: Protective Casing (yes) / no) Flush (yes) / no)
 Flush-Mount Cover Seal Intact (yes) / no) Locking Cap (yes) / no)
 Locked at Arrival (yes) / no) Departure (yes) / no)
 Well Casing (height above / depth below) ground: 3-0 ft.
 Casing Type (PVC) (Steel) (Other) _____
 Dedicated Pump or Bailer (yes) / no) Type _____
 Protective Post / Abutment (yes (no)) Concrete Pad (yes) / no)
 Well Integrity: Satisfactory (yes) / no) If no, explain below.
 Well Yield (low / moderate (high))

WELL VOLUME DATA			
Diameter of Tubing (in.)	Volume (gal. / ft.)	Diameter of Pipe (in.)	Volume (gal. / ft.)
1/8	0.0006	1.0	0.041
3/16	0.0014	2.0	0.163
1/4	0.0025	3.0	0.367
5/16	0.0039	4.0	0.653
3/8	0.0050	5.0	1.020
1/2	0.0100	6.0	1.470
3/4	0.0230	1 gallon/ft. = 3.8 liters/ft.	

Cylinder Volume (gal./ft.) = $\pi r^2 h \times 0.0043$
 Radius (r) and height (h) measured in inches.

Measurements	FIELD ANALYSES				
	First	Second	Third	Fourth	Fifth ()
Volume Purged (gallons)	<u>4.0</u>	<u>8.0</u>	<u>12.8</u>		
Time (military)	<u>1148</u>	<u>1155</u>	<u>1159</u>		
pH (S.U.)	<u>5.4</u>	<u>5.2</u>	<u>5.2</u>		
Specific Conductance (µmhos/cm)	<u>53</u>	<u>64</u>	<u>67</u>		
Water Temp. (°C)	<u>27</u>	<u>26</u>	<u>26</u>		
Odor (subjective) *	<u>2</u>	<u>2</u>	<u>2</u>		
Turbidity (subjective) **	<u>3</u>	<u>3</u>	<u>3</u>		

* (1)None (2)Slight (3)Moderate (4)Strong

** (1)Clear (2)Slightly Turbid (3)Moderately Turbid (4)Very Turbid (5)Extremely Turbid

Comments/Observations/Recommendations: groundwater odor, shows some sheen on the water

Completed by: [Signature] Date: 6-21-11
 Signature Date

Field Data for Groundwater Sample Collection
 Groundwater Measurements

Well ID: MW-4

Client: SEACO, Inc.
 Site Name: Columbia, SC Job No.: 5894.07
 Date: 6/21/11 LWR submitted by: Laura Lumley
 Sampling Personnel: JLM
 Regulatory Personnel: N/A
 Weather Conditions: Clear Temp. (°C): 35
 Well Diameter: 2.0 in.
 (A) Top of Well Elevation: - ft. msl (yes / no)
 (B) Depth to Immiscible Layer: - ft.
 (C) Immiscible Layer Elevation: (A) - (B) = N/A ft. msl (yes / no)
 (D) Depth to Groundwater: 8.14 ft.
 (E) Groundwater Elevation: (A) - (D) = - ft. msl (yes / no)
 (F) Total Well Depth: 13.32 ft.
 (G) Length of Water Column: (F) - (D) = 5.18 ft.
 Casing Volume = (G) Volume in gal./ft. = 0.84 gals.
 Method of Well Evacuation BAIL Start Time: 1212
 Method of Sample Collection BAIL Time: 1225
 Chain of Custody Started: (yes / no)

Source(s) of Well ID MAP ID Label (yes / no)
 Well Completion: Protective Casing (yes / no) Flush (yes / no)
 Flush-Mount Cover Seal Intact (yes / no) Locking Cap (yes / no)
 Locked at Arrival (yes / no) Departure (yes / no)
 Well Casing (height above / depth below) ground: Flush ft.
 Casing Type (PVC) (Steel) (Other) _____
 Dedicated Pump or Bailer (yes / no) Type _____
 Protective Post / Abutment (yes / no) Concrete Pad (yes / no)
 Well Integrity: Satisfactory (yes / no) If no, explain below.
 Well Yield (low / moderate / high)

WELL VOLUME DATA			
Diameter of Tubing (in.)	Volume (gal. / ft.)	Diameter of Pipe (in.)	Volume (gal. / ft.)
1/8	0.0006	1.0	0.041
3/16	0.0014	2.0	0.163
1/4	0.0025	3.0	0.367
5/16	0.0039	4.0	0.653
3/8	0.0050	5.0	1.020
1/2	0.0100	6.0	1.470
3/4	0.0230	1 gallon/ft. = 3.8 liters/ft.	

Cylinder Volume (gal./ft.) = $\pi r^2 h \times 0.0043$
 Radius (r) and height (h) measured in inches.

Measurements	FIELD ANALYSES				
	First	Second	Third	Fourth	Fifth ()
Volume Purged (gallons)	<u>0.84</u>	<u>1.68</u>	<u>2.5</u>		
Time (military)	<u>1216</u>	<u>1219</u>	<u>1222</u>		
pH (S.U.)	<u>6.0</u>	<u>6.0</u>	<u>6.1</u>		
Specific Conductance (µmhos/cm)	<u>244</u>	<u>247</u>	<u>245</u>		
Water Temp. (°C)	<u>26</u>	<u>26</u>	<u>26</u>		
Odor (subjective) *	<u>2</u>	<u>2</u>	<u>2</u>		
Turbidity (subjective) **	<u>4</u>	<u>3</u>	<u>2</u>		

* (1)None (2)Slight (3)Moderate (4)Strong

** (1)Clear (2)Slightly Turbid (3)Moderately Turbid (4)Very Turbid (5)Extremely Turbid

Comments/Observations/Recommendations: _____

Completed by: [Signature] 6-21-11
 Signature Date

Field Data for Groundwater Sample Collection
 Groundwater Measurements

Well ID: MW-3

Client: SEACO, Inc.
 Site Name: Columbia, SC Job No.: 5894.07
 Date: 6/21/11 LWR submitted by: Laura Lumley
 Sampling Personnel: JLM
 Regulatory Personnel: N/A
 Weather Conditions: Clear Temp. (°C): 35
 Well Diameter: 2.0 in.
 (A) Top of Well Elevation: - ft. msl (yes / no)
 (B) Depth to Immiscible Layer: N/A ft.
 (C) Immiscible Layer Elevation: (A) - (B) = - ft. msl (yes / no)
 (D) Depth to Groundwater: 8.37 ft.
 (E) Groundwater Elevation: (A) - (D) = - ft. msl (yes / no)
 (F) Total Well Depth: 12.57 ft.
 (G) Length of Water Column: (F) - (D) = 4.20 ft.
 Casing Volume = (G) Volume in gal./ft. = 0.7 gals.
 Method of Well Evacuation BAIL Start Time: 1244
 Method of Sample Collection BAIL Time: 1257
 Chain of Custody Started: (yes / no)

Source(s) of Well ID MAP ID Label (yes / no)
 Well Completion: Protective Casing (yes / no) Flush (yes / no)
 Flush-Mount Cover Seal Intact (yes / no) Locking Cap (yes / no)
 Locked at Arrival (yes / no) Departure (yes / no)
 Well Casing (height above / depth below) ground: 0.1 ft.
 Casing Type (PVC) (Steel) (Other) _____
 Dedicated Pump or Bailer (yes / no) Type _____
 Protective Post / Abutment (yes / no) Concrete Pad (yes / no)
 Well Integrity: Satisfactory (yes / no) If no, explain below.
 Well Yield (low / moderate / high)

WELL VOLUME DATA			
Diameter of Tubing (in.)	Volume (gal. / ft.)	Diameter of Pipe (in.)	Volume (gal. / ft.)
1/8	0.0006	1.0	0.041
3/16	0.0014	2.0	0.163
1/4	0.0025	3.0	0.367
5/16	0.0039	4.0	0.653
3/8	0.0050	5.0	1.020
1/2	0.0100	6.0	1.470
3/4	0.0230	1 gallon/ft. = 3.8 liters/ft.	

Cylinder Volume (gal./ft.) = $\pi r^2 h \times 0.0043$
 Radius (r) and height (h) measured in inches.

Measurements	FIELD ANALYSES				
	First	Second	Third	Fourth	Fifth ()
Volume Purged (gallons)	<u>0.7</u>	<u>1.4</u>	<u>2.1</u>		
Time (military)	<u>1247</u>	<u>1251</u>	<u>1255</u>		
pH (S.U.)	<u>5.8</u>	<u>5.9</u>	<u>5.9</u>		
Specific Conductance (µmhos/cm)	<u>150</u>	<u>152</u>	<u>152</u>		
Water Temp. (°C)	<u>24</u>	<u>24</u>	<u>24</u>		
Odor (subjective) *	<u>2</u>	<u>2</u>	<u>2</u>		
Turbidity (subjective) **	<u>3</u>	<u>3</u>	<u>3</u>		

* (1)None (2)Slight (3)Moderate (4)Strong ** (1)Clear (2)Slightly Turbid (3)Moderately Turbid (4)Very Turbid (5)Extremely Turbid

Comments/Observations/Recommendations: _____

Completed by: [Signature] Date: 6-21-11

Field Data for Groundwater Sample Collection
 Groundwater Measurements

Well ID: MW-1

Client: SEACO, Inc.
 Site Name: Columbia, SC Job No.: 5894.07
 Date: 6/21/11 LWR submitted by: Laura Lumley
 Sampling Personnel: JLM
 Regulatory Personnel: N/A
 Weather Conditions: clear Temp. (°C): 35
 Well Diameter: 2.0 in.
 (A) Top of Well Elevation: - ft. msl (yes / no)
 (B) Depth to Immiscible Layer: N/A ft.
 (C) Immiscible Layer Elevation: (A) - (B) = - ft. msl (yes / no)
 (D) Depth to Groundwater: 8.46 ft.
 (E) Groundwater Elevation: (A) - (D) = - ft. msl (yes / no)
 (F) Total Well Depth: 12.78 ft.
 (G) Length of Water Column: (F) - (D) = 4.32 ft.
 Casing Volume = (G) Volume in gal./ft. = 0.7 gals.
 Method of Well Evacuation BAIL Start Time: 1305
 Method of Sample Collection BAIL Time: 1315
 Chain of Custody Started: (yes / no)

Source(s) of Well ID MAP ID Label (yes / no)
 Well Completion: Protective Casing (yes / no) Flush (yes / no)
 Flush-Mount Cover Seal Intact (yes / no) Locking Cap (yes / no)
 Locked at Arrival (yes / no) Departure (yes / no)
 Well Casing (height above / depth below) ground: 0.1 ft.
 Casing Type (PVC) (Steel) (Other) _____
 Dedicated Pump or Bailor (yes / no) Type _____
 Protective Post / Abutment (yes (no)) Concrete Pad (yes / no)
 Well Integrity: Satisfactory (yes / no) If no, explain below.
 Well Yield (low / moderate / (high))

WELL VOLUME DATA			
Diameter of Tubing (in.)	Volume (gal. / ft.)	Diameter of Pipe (in.)	Volume (gal. / ft.)
1/8	0.0006	1.0	0.041
3/16	0.0014	2.0	0.163
1/4	0.0025	3.0	0.367
5/16	0.0039	4.0	0.653
3/8	0.0050	5.0	1.020
1/2	0.0100	6.0	1.470
3/4	0.0230		
1 gallon/ft. = 3.8 liters/ft.			
Cylinder Volume (gal./ft.) = $\pi r^2 h \times 0.0043$ Radius (r) and height (h) measured in inches.			

Measurements	FIELD ANALYSES				
	First	Second	Third	Fourth	Fifth ()
Volume Purged (gallons)	0.7	1.4	2.1		
Time (military)	1307	1310	1312		
pH (S.U.)	5.9	5.9	5.9		
Specific Conductance (µmhos/cm)	306	300	299		
Water Temp. (°C)	24	24	24		
Odor (subjective) *	2	2	2		
Turbidity (subjective) **	3	3	3		

* (1)None (2)Slight (3)Moderate (4)Strong

** (1)Clear (2)Slightly Turbid (3)Moderately Turbid (4)Very Turbid (5)Extremely Turbid

Comments/Observations/Recommendations:

Completed by: John L. McMahon 6-21-11
 Signature Date

Field Data for Groundwater Sample Collection
 Groundwater Measurements

Well ID: MW-2

Client: SEACO, Inc.
 Site Name: Columbia, SC Job No.: 5894.07
 Date: 6/21/11 LWR submitted by: Laura Lumley
 Sampling Personnel: JLM
 Regulatory Personnel: N/A
 Weather Conditions: Clear Temp. (°C): 36
 Well Diameter: 2.0 in.
 (A) Top of Well Elevation: - ft. msl (yes / no)
 (B) Depth to Immiscible Layer: N/A ft.
 (C) Immiscible Layer Elevation: (A) - (B) = - ft. msl (yes / no)
 (D) Depth to Groundwater: 8.15 ft.
 (E) Groundwater Elevation: (A) - (D) = - ft. msl (yes / no)
 (F) Total Well Depth: 18.09 ft.
 (G) Length of Water Column: (F) - (D) = 1.94 ft.
 Casing Volume = (G) Volume in gal./ft. = 0.32 gals.
 Method of Well Evacuation BAIL Start Time: 1328
 Method of Sample Collection BAIL Time: 1345
 Chain of Custody Started: (yes/no)

Source(s) of Well ID MAP ID Label (yes / no)
 Well Completion: Protective Casing (yes/no) Flush (yes/no)
 Flush-Mount Cover Seal Intact (yes/no) Locking Cap (yes/no)
 Locked at Arrival (yes/no) Departure (yes/no)
 Well Casing (height above / depth below) ground: 0.1 ft.
 Casing Type (PVC) (Steel) (Other) _____
 Dedicated Pump or Bailer (yes / no) Type _____
 Protective Post / Abutment (yes / no) Concrete Pad (yes/no)
 Well Integrity: Satisfactory (yes/no) If no, explain below.
 Well Yield (low / moderate / high)

WELL VOLUME DATA			
Diameter of Tubing (in.)	Volume (gal. / ft.)	Diameter of Pipe (in.)	Volume (gal. / ft.)
1/8	0.0006	1.0	0.041
3/16	0.0014	2.0	0.163
1/4	0.0025	3.0	0.367
5/16	0.0039	4.0	0.653
3/8	0.0050	5.0	1.020
1/2	0.0100	6.0	1.470
3/4	0.0230		
1 gallon/ft. = 3.8 liters/ft.			
Cylinder Volume (gal./ft.) = $\pi r^2 h \times 0.0043$			
Radius (r) and height (h) measured in inches.			

Measurements	FIELD ANALYSES				
	First	Second	Third	Fourth	Fifth ()
Volume Purged (gallons)	<u>0.32</u>	<u>0.64</u>	<u>0.96</u>		
Time (military)	<u>1335</u>	<u>1339</u>	<u>1343</u>		
pH (S.U.)	<u>5.9</u>	<u>5.9</u>	<u>5.9</u>		
Specific Conductance (µmhos/cm)	<u>470</u>	<u>470</u>	<u>471</u>		
Water Temp. (°C)	<u>25</u>	<u>25</u>	<u>25</u>		
Odor (subjective) *	<u>3</u>	<u>3</u>	<u>3</u>		
Turbidity (subjective) **	<u>4</u>	<u>4</u>	<u>4</u>		

* (1)None (2)Slight (3)Moderate (4)Strong

** (1)Clear (2)Slightly Turbid (3)Moderately Turbid (4)Very Turbid (5)Extremely Turbid

Comments/Observations/Recommendations: small beads of production purge water

Completed by: [Signature] 6-21-11
 Signature Date