

February 12, 2008

Mr. John Morris, P.G.
Florida Department of Environmental Protection – Southwest District
13051 N. Telecom Parkway
Temple Terrace, Florida 33637

87895
JRM
4/12/12
GW
SCW

Dept. Of Environmental Protection

RE: Enterprise Class III Recycling & Disposal Facility-New Well Installation
Permit No. 177982-008-SC and 177982-007-SO
Project Number: 0-69055

FEB 15 2008

Southwest District

Dear Mr. Morris:

This letter is in response to your e-mail of December 30, 2007 requesting additional information regarding the installation of monitoring well MW-11B at the above mentioned facility. Your comments/questions are repeated below followed by our response.

FDEP Comment:

DEP Form #62-522-900(3) prepared for well MW-11B provided the location of this well in State Plan Coordinates; please submit a revised form that provides the degrees, minutes and seconds of latitude and longitude coordinates of this well [Rule 62-701.510(3)(d)1, F.A.C.]

Response:

DEP Form 62-522.900(3) has been revised as requested and is provided in Attachment 1.

FDEP Comment:

Please submit the "Ground Water Sampling Log" (DEP Form #FD 9000-24) for the November 5, 2007 sampling event.

Response:

The Ground Water Sampling Logs for the November 5, 2007 event are provided in Attachment 2.

FDEP Comment:

A referenced letter indicated that the sample collected from well MW-11B was analyzed for the parameters listed in Specific Condition #E.4. of the permit #177982-007-SO [Rule 62-701.510(6)(b)2, F.A.C.]. It does not appear that the ENCO laboratory report included the following parameters listed by 40 CFR Part 258, Appendix II: 4,6-dinitro-o-cresol, diphenylamine, 1,2,3-trichloropropane.

Response:

Due to a problem with the LIMS system 1,2,3-trichloropropane was inadvertently omitted from the initial laboratory report. Additionally, 4,6-dinitro-o-cresol appears in the report as 2-methyl-4,6-dinitrophenol. Diphenylamine is a co-eluate of n-nitrosodiphenylamine but previously did not appear on the report. The report has been revised and a copy is provided in Attachment 3.

Mr. John Morris, P.G.
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Page 2

FDEP Comment:

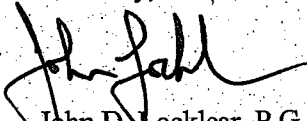
The referenced letter indicated that the sample to be collected from well MW-11B during the week of December 17, 2007 would be analyzed for dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene to confirm the exceedances of the groundwater minimum criteria values reported for these parameters in the sample collected during November 5, 2007.

Response:

The two referenced parameters were analyzed in the December 17, 2007 sample and found to both be below the laboratory detection limits. These two parameters were detected in the equipment blank samples during the November 5, 2007 sample event and are believed to be a result of laboratory contamination. The December 17, 2007 report is provided in Attachment 4.

If you have any questions or need any additional information, please feel free to contact me at (352) 642-1105.

Sincerely,


John D. Locklear, P.G.
Project Manager

Attachments

Xc: Jeff Rogers
John Arnold

Dept. Of Environmental Protection

FEB 15 2008

Southwest District


John D. Locklear, P.G.
Florida License NO. 2467

ATTACHMENT 4

LABORATORY ANALYTICAL REPORT FOR DECEMBER 17, 2007

Environmental Conservation Laboratories, Inc.

10775 Central Port Drive

Orlando FL, 32824

Phone: 407.826.5314 FAX: 407.850.6945



www.encolabs.com

Friday, December 28, 2007

HDR, Inc. (HD002)

Attn: John Locklear

4140 NW 37th Place, Suite A

Gainesville, FL 32606

**RE: Project Number: HD002, Project Name/Desc: Enterprise Class III LF
ENCO Workorder: A706824**

Dear John Locklear,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, December 18, 2007.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

This data has been produced in accordance with NELAC standards (June, 2003). This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Marcia Colon".

Marcia Colon

Project Manager

Enclosure(s)



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LAB #	A706824-07	A706824-08	-	-	-	-
MATRIX	Minimum	Ground Water	Ground Water	-	-	-
SAMPLE ID	Reporting Limit	POND	Trip Blank	-	-	-

Volatile Organic Compounds by GCMS (Water)

Chloromethane	1.0 ug/L	<0.37 [8]	<0.37 [8]	-	-	-
Vinyl chloride	1.0 ug/L	<0.91 [8]	<0.91 [8]	-	-	-
Bromomethane	1.0 ug/L	<0.68 [8]	<0.68 [8]	-	-	-
Chloroethane	1.0 ug/L	<0.54 [8]	<0.54 [8]	-	-	-
Trichlorofluoromethane	1.0 ug/L	<0.52 [8]	<0.52 [8]	-	-	-
Acetone	5.0 ug/L	4.6 [2]	<0.74 [8]	-	-	-
1,1-Dichloroethene	1.0 ug/L	<0.46 [8]	<0.46 [8]	-	-	-
Iodomethane	3.0 ug/L	<0.98 [8]	<0.98 [8]	-	-	-
Carbon disulfide	5.0 ug/L	<0.50 [8]	<0.50 [8]	-	-	-
Methylene chloride	2.0 ug/L	<0.49 [8]	<0.49 [8]	-	-	-
Acrylonitrile	5.0 ug/L	<3.5 [8]	<3.5 [8]	-	-	-
trans-1,2-Dichloroethene	1.0 ug/L	<0.58 [8]	<0.58 [8]	-	-	-
cis-1,2-Dichloroethene	1.0 ug/L	<0.34 [8]	<0.34 [8]	-	-	-
1,1-Dichloroethane	1.0 ug/L	<0.35 [8]	<0.35 [8]	-	-	-
Vinyl acetate	1.0 ug/L	<0.42 [7] [8]	<0.42 [7] [8]	-	-	-
2-Butanone	5.0 ug/L	<2.5 [8]	<2.5 [8]	-	-	-
Chloroform	1.0 ug/L	<0.36 [8]	<0.36 [8]	-	-	-
Bromochloromethane	1.0 ug/L	<0.33 [8]	<0.33 [8]	-	-	-
1,1,1-Trichloroethane	1.0 ug/L	<0.50 [8]	<0.50 [8]	-	-	-
Carbon tetrachloride	1.0 ug/L	<0.47 [8]	<0.47 [8]	-	-	-
1,2-Dichloroethane	1.0 ug/L	<0.39 [8]	<0.39 [8]	-	-	-
Benzene	1.0 ug/L	<0.34 [8]	<0.34 [8]	-	-	-
Trichloroethene	1.0 ug/L	<0.30 [8]	<0.30 [8]	-	-	-
1,2-Dichloropropane	1.0 ug/L	<0.33 [8]	<0.33 [8]	-	-	-
Bromodichloromethane	1.0 ug/L	<0.22 [8]	<0.22 [8]	-	-	-
Dibromomethane	1.0 ug/L	<0.52 [8]	<0.52 [8]	-	-	-
4-Methyl-2-pentanone	5.0 ug/L	<0.97 [8]	<0.97 [8]	-	-	-
2-Hexanone	5.0 ug/L	<0.75 [8]	<0.75 [8]	-	-	-
cis-1,3-Dichloropropene	1.0 ug/L	<0.20 [8]	<0.20 [8]	-	-	-
Toluene	1.0 ug/L	<0.38 [8]	<0.38 [8]	-	-	-
trans-1,3-Dichloropropene	1.0 ug/L	<0.20 [8]	<0.20 [8]	-	-	-
1,1,2-Trichloroethane	1.0 ug/L	<0.33 [8]	<0.33 [8]	-	-	-
Tetrachloroethene	1.0 ug/L	<0.47 [8]	<0.47 [8]	-	-	-
Dibromochloromethane	1.0 ug/L	<0.23 [8]	<0.23 [8]	-	-	-
Chlorobenzene	1.0 ug/L	<0.27 [8]	<0.27 [8]	-	-	-
1,1,1,2-Tetrachloroethane	1.0 ug/L	<0.45 [8]	<0.45 [8]	-	-	-
Ethylbenzene	1.0 ug/L	<0.36 [8]	<0.36 [8]	-	-	-
m,p-Xylenes	1.0 ug/L	<0.52 [8]	<0.52 [8]	-	-	-
o-Xylene	1.0 ug/L	<0.35 [8]	<0.35 [8]	-	-	-
Bromoform	1.0 ug/L	<0.33 [8]	<0.33 [8]	-	-	-
Styrene	1.0 ug/L	<0.23 [8]	<0.23 [8]	-	-	-
1,2,3-Trichloropropane	1.0 ug/L	<0.36 [8]	<0.36 [8]	-	-	-
1,1,2,2-Tetrachloroethane	1.0 ug/L	<0.22 [8]	<0.22 [8]	-	-	-
trans-1,4-Dichloro-2-butene	1.0 ug/L	<0.54 [8]	<0.54 [8]	-	-	-
1,4-Dichlorobenzene	1.0 ug/L	<0.33 [8]	<0.33 [8]	-	-	-



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LAB #	A706824-07	A706824-08	-	-	-	-
MATRIX	Minimum	Ground Water	Ground Water	-	-	-
SAMPLE ID	Reporting Limit	POND	Trip Blank	-	-	-
Volatile Organic Compounds by GCMS (continued)						
1,2-Dichlorobenzene	1.0 ug/L	<0.33 [8]	<0.33 [8]	-	-	-
Xylenes (Total)	1.0 ug/L	<0.52 [8]	<0.52 [8]	-	-	-
Dibromofluoromethane	141 [surr]	130%	130%	-	-	-
Toluene-d8	134 [surr]	100%	100%	-	-	-
4-Bromofluorobenzene	147 [surr]	100%	100%	-	-	-
Semivolatile Organic Compounds by GC (Water)						
1,2-Dibromoethane [2C]	0.02 ug/L	<0.010 [8]	-	-	-	-
1,2-Dibromo-3-chloropropane [2C]	0.02 ug/L	<0.008 [8]	-	-	-	-
1,3-Dichlorobenzene [2C]	150 [surr]	110%	-	-	-	-
Metals by EPA 6000/7000 Series Methods (Water)						
Antimony	5.00 ug/L	1.09 [2]	-	-	-	-
Arsenic	10.0 ug/L	1.54 [2]	-	-	-	-
Barium	100 ug/L	10.6 [2]	-	-	-	-
Beryllium	1.00 ug/L	<0.730 [8]	-	-	-	-
Cadmium	3.00 ug/L	<0.820 [8]	-	-	-	-
Chromium	10.0 ug/L	<0.690 [8]	-	-	-	-
Cobalt	10.0 ug/L	<0.500 [8]	-	-	-	-
Copper	10.0 ug/L	6.05 [2]	-	-	-	-
Iron	50.0 ug/L	33.5 [2]	-	-	-	-
Lead	5.00 ug/L	<0.500 [8]	-	-	-	-
Mercury	0.20 ug/L	<0.009 [8]	-	-	-	-
Nickel	10.0 ug/L	3.22 [2]	-	-	-	-
Selenium	10.0 ug/L	<3.10 [8]	-	-	-	-
Silver	1.00 ug/L	<0.072 [8]	-	-	-	-
Sodium	1.00 mg/L	3.87	-	-	-	-
Thallium	1.00 ug/L	<0.200 [8]	-	-	-	-
Vanadium	10.0 ug/L	4.04 [2]	-	-	-	-
Zinc	50.0 ug/L	<6.60 [8]	-	-	-	-
Classical Chemistry Parameters (Water)						
Ammonia as N	0.020 mg/L	0.67	-	-	-	-
Chloride	1.0 mg/L	5.0 [1] [3]	-	-	-	-
Nitrate as N	0.050 mg/L	0.37	-	-	-	-
Nitrite as N	0.050 mg/L	0.12	-	-	-	-
Nitrate/Nitrite as N	0.050 mg/L	0.49	-	-	-	-
Total Dissolved Solids	10 mg/L	610	-	-	-	-
Field Parameters (Water)						
Specific Conductance (EC)	0.00 umhos/cm	834	-	-	-	-
Dissolved Oxygen	0.00 mg/L	6.87	-	-	-	-
pH	pH Units	6.86	-	-	-	-
Temperature	0.00 °C	15.28	-	-	-	-
Turbidity	0.00 NTU	6.10	-	-	-	-



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QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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Volatile Organic Compounds by GCMS - Quality Control

Batch 7L26015 - EPA 5030B_MS

Blank (7L26015-BLK1)

Prepared: 12/26/2007 11:51 Analyzed: 12/26/2007 13:01

Chloromethane	0.37 U	1.0	ug/L							U
Vinyl chloride	0.91 U	1.0	ug/L							U
Bromomethane	0.68 U	1.0	ug/L							U
Chloroethane	0.54 U	1.0	ug/L							U
Trichlorofluoromethane	0.52 U	1.0	ug/L							U
Acetone	0.74 U	5.0	ug/L							U
1,1-Dichloroethene	0.46 U	1.0	ug/L							U
Iodomethane	0.98 U	3.0	ug/L							U
Carbon disulfide	0.50 U	5.0	ug/L							U
Methylene chloride	0.49 U	2.0	ug/L							U
Acrylonitrile	3.5 U	5.0	ug/L							U
trans-1,2-Dichloroethene	0.58 U	1.0	ug/L							U
cis-1,2-Dichloroethene	0.34 U	1.0	ug/L							U
1,1-Dichloroethane	0.35 U	1.0	ug/L							U
Vinyl acetate	0.42 U	1.0	ug/L							QV-01,
2-Butanone	2.5 U	5.0	ug/L							U
Chloroform	0.36 U	1.0	ug/L							U
Bromochloromethane	0.33 U	1.0	ug/L							U
1,1,1-Trichloroethane	0.50 U	1.0	ug/L							U
Carbon tetrachloride	0.47 U	1.0	ug/L							U
1,2-Dichloroethane	0.39 U	1.0	ug/L							U
Benzene	0.34 U	1.0	ug/L							U
Trichloroethene	0.30 U	1.0	ug/L							U
1,2-Dichloropropane	0.33 U	1.0	ug/L							U
Bromodichloromethane	0.22 U	1.0	ug/L							U
Dibromomethane	0.52 U	1.0	ug/L							U
4-Methyl-2-pentanone	0.97 U	5.0	ug/L							U
2-Hexanone	0.75 U	5.0	ug/L							U
cis-1,3-Dichloropropene	0.20 U	1.0	ug/L							U
Toluene	0.38 U	1.0	ug/L							U
trans-1,3-Dichloropropene	0.20 U	1.0	ug/L							U
1,1,2-Trichloroethane	0.33 U	1.0	ug/L							U
Tetrachloroethene	0.47 U	1.0	ug/L							U
Dibromochloromethane	0.23 U	1.0	ug/L							U
Chlorobenzene	0.27 U	1.0	ug/L							U
1,1,1,2-Tetrachloroethane	0.45 U	1.0	ug/L							U
Ethylbenzene	0.36 U	1.0	ug/L							U
m,p-Xylenes	0.52 U	1.0	ug/L							U
o-Xylene	0.35 U	1.0	ug/L							U
Bromoform	0.33 U	1.0	ug/L							U
Styrene	0.23 U	1.0	ug/L							U
1,2,3-Trichloropropane	0.36 U	1.0	ug/L							U
1,1,2,2-Tetrachloroethane	0.22 U	1.0	ug/L							U
trans-1,4-Dichloro-2-butene	0.54 U	1.0	ug/L							U
1,4-Dichlorobenzene	0.33 U	1.0	ug/L							U
1,2-Dichlorobenzene	0.33 U	1.0	ug/L							U



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QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
Volatile Organic Compounds by GCMS - Quality Control										
<i>Batch 7L26015 - EPA 5030B_MS</i>										
Blank (7L26015-BLK1) Continued				Prepared: 12/26/2007 11:51 Analyzed: 12/26/2007 13:01						
Xylenes (Total)	0.52 U	1.0	ug/L							U
Surrogate: Dibromofluoromethane	62		ug/L	50.0		124	40-141			
Surrogate: Toluene-d8	52		ug/L	50.0		103	64-134			
Surrogate: 4-Bromofluorobenzene	50		ug/L	50.0		100	52-147			
LCS (7L26015-BS1)				Prepared: 12/26/2007 11:51 Analyzed: 12/26/2007 12:31						
1,1-Dichloroethene	21	1.0	ug/L	20.0		106	57-142			
Benzene	20	1.0	ug/L	20.0		100	55-131			
Trichloroethene	23	1.0	ug/L	20.0		113	52-135			
Toluene	21	1.0	ug/L	20.0		104	58-148			
Chlorobenzene	22	1.0	ug/L	20.0		108	57-140			
Surrogate: Dibromofluoromethane	47		ug/L	50.0		93	40-141			
Surrogate: Toluene-d8	51		ug/L	50.0		101	64-134			
Surrogate: 4-Bromofluorobenzene	48		ug/L	50.0		95	52-147			
Matrix Spike (7L26015-MS1)				Source: A706824-01 Prepared: 12/26/2007 11:51 Analyzed: 12/26/2007 13:30						
1,1-Dichloroethene	23	1.0	ug/L	20.0	0.46 U	115	57-142			
Benzene	19	1.0	ug/L	20.0	0.34 U	97	55-131			
Trichloroethene	17	1.0	ug/L	20.0	0.30 U	86	52-135			
Toluene	19	1.0	ug/L	20.0	0.38 U	95	58-148			
Chlorobenzene	20	1.0	ug/L	20.0	0.27 U	101	57-140			
Surrogate: Dibromofluoromethane	41		ug/L	50.0		82	40-141			
Surrogate: Toluene-d8	42		ug/L	50.0		84	64-134			
Surrogate: 4-Bromofluorobenzene	46		ug/L	50.0		92	52-147			
Matrix Spike Dup (7L26015-MSD1)				Source: A706824-01 Prepared: 12/26/2007 11:51 Analyzed: 12/26/2007 13:59						
1,1-Dichloroethene	21	1.0	ug/L	20.0	0.46 U	107	57-142	7	16	
Benzene	24	1.0	ug/L	20.0	0.34 U	118	55-131	19	12	QR-02
Trichloroethene	22	1.0	ug/L	20.0	0.30 U	109	52-135	24	40	
Toluene	22	1.0	ug/L	20.0	0.38 U	111	58-148	16	21	
Chlorobenzene	23	1.0	ug/L	20.0	0.27 U	114	57-140	13	20	
Surrogate: Dibromofluoromethane	48		ug/L	50.0		96	40-141			
Surrogate: Toluene-d8	52		ug/L	50.0		104	64-134			
Surrogate: 4-Bromofluorobenzene	54		ug/L	50.0		108	52-147			
Semivolatile Organic Compounds by GCMS SIM - Quality Control										
<i>Batch 7L20002 - EPA 3510C_MS</i>										
Blank (7L20002-BLK1)				Prepared: 12/20/2007 07:26 Analyzed: 12/24/2007 12:19						
Indeno(1,2,3-cd)pyrene	0.020 U	0.10	ug/L							U
Dibenzo(a,h)anthracene	0.020 U	0.10	ug/L							U
Surrogate: p-Terphenyl	5.8		ug/L	5.00		116	39-148			
LCS (7L20002-BS1)				Prepared: 12/20/2007 07:26 Analyzed: 12/24/2007 12:37						
Naphthalene	2.0	0.10	ug/L	2.00		102	41-105			
Acenaphthene	1.9	0.10	ug/L	2.00		95	53-107			
Benzo(a)pyrene	1.6	0.10	ug/L	2.00		82	47-119			
Benzo(g,h,i)perylene	0.60	0.10	ug/L	2.00		30	29-105			
Surrogate: p-Terphenyl	4.9		ug/L	5.00		97	39-148			
Matrix Spike (7L20002-MS1)				Source: A707246-06 Prepared: 12/20/2007 07:26 Analyzed: 12/24/2007 12:55						



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QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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Semivolatile Organic Compounds by GCMS SIM - Quality Control

Batch 7L20002 - EPA 3510C_MS

Matrix Spike (7L20002-MS1) Continued			Source: A707246-06	Prepared: 12/20/2007 07:26 Analyzed: 12/24/2007 12:55						
Naphthalene	2.0	0.10	ug/L	2.00	0.17	93	41-105			
Acenaphthene	1.8	0.10	ug/L	2.00	0.047 U	91	53-107			
Benzo(a)pyrene	1.7	0.10	ug/L	2.00	0.020 U	86	47-119			
Benzo(g,h,i)perylene	0.92	0.10	ug/L	2.00	0.020 U	46	29-105			
Surrogate: p-Terphenyl	4.9		ug/L	5.00		98	39-148			
Matrix Spike Dup (7L20002-MSD1)			Source: A707246-06	Prepared: 12/20/2007 07:26 Analyzed: 12/24/2007 13:12						
Naphthalene	2.2	0.10	ug/L	2.00	0.17	103	41-105	10	28	
Acenaphthene	2.1	0.10	ug/L	2.00	0.047 U	105	53-107	14	27	
Benzo(a)pyrene	1.9	0.10	ug/L	2.00	0.020 U	93	47-119	7	24	
Benzo(g,h,i)perylene	1.2	0.10	ug/L	2.00	0.020 U	59	29-105	24	23	QM-07,
Surrogate: p-Terphenyl	5.1		ug/L	5.00		102	39-148			

Semivolatile Organic Compounds by GC - Quality Control

Batch 7L26018 - EPA 504/8011

Blank (7L26018-BLK1)				Prepared: 12/26/2007 12:56 Analyzed: 12/26/2007 20:01						
1,2-Dibromoethane	0.010 U	0.020	ug/L							U
1,2-Dibromo-3-chloropropane	0.008 U	0.020	ug/L							U
Surrogate: 1,3-Dichlorobenzene	0.26		ug/L	0.250		104	83-150			
LCS (7L26018-BS1)				Prepared: 12/26/2007 12:56 Analyzed: 12/26/2007 20:12						
1,2-Dibromoethane	0.44	0.020	ug/L	0.250		176	49-154			
1,2-Dibromo-3-chloropropane	0.65	0.020	ug/L	0.250		261	49-140			
Surrogate: 1,3-Dichlorobenzene	0.30		ug/L	0.250		118	83-150			
Matrix Spike (7L26018-MS1)				Source: A707367-02	Prepared: 12/26/2007 12:56 Analyzed: 12/26/2007 21:34					
1,2-Dibromoethane	0.46	0.020	ug/L	0.250	0.010 U	183	49-154			
1,2-Dibromo-3-chloropropane	0.59	0.020	ug/L	0.250	0.008 U	235	49-140			
Surrogate: 1,3-Dichlorobenzene	0.29		ug/L	0.250		115	83-150			
Matrix Spike Dup (7L26018-MSD1)				Source: A707367-02	Prepared: 12/26/2007 12:56 Analyzed: 12/26/2007 21:45					
1,2-Dibromoethane	0.46	0.020	ug/L	0.250	0.010 U	182	49-154	0.4	11	
1,2-Dibromo-3-chloropropane	0.58	0.020	ug/L	0.250	0.008 U	231	49-140	2	15	
Surrogate: 1,3-Dichlorobenzene	0.28		ug/L	0.250		114	83-150			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7L19014 - EPA 7470A

Blank (7L19014-BLK1)				Prepared: 12/20/2007 08:57 Analyzed: 12/21/2007 07:07						
Mercury	0.009 U	0.20	ug/L							U
LCS (7L19014-BS1)				Prepared: 12/20/2007 08:57 Analyzed: 12/21/2007 07:10						
Mercury	5.05	0.20	ug/L	5.00		101	90-110			
Matrix Spike (7L19014-MS1)				Source: A706824-01	Prepared: 12/20/2007 08:57 Analyzed: 12/21/2007 07:16					
Mercury	5.28	0.20	ug/L	5.00	0.009 U	106	90-110			
Matrix Spike Dup (7L19014-MSD1)				Source: A706824-01	Prepared: 12/20/2007 08:57 Analyzed: 12/21/2007 07:19					
Mercury	5.28	0.20	ug/L	5.00	0.009 U	106	90-110	0.09	10	
Post Spike (7L19014-PS1)				Source: A706824-01	Prepared: 12/20/2007 06:00 Analyzed: 12/21/2007 07:23					
Mercury	5.72	0.20	ug/L	5.61	-0.02	102	0-200			

Batch 7L21010 - EPA 3005A



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QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7L21010 - EPA 3005A

Blank (7L21010-BLK1)

Prepared: 12/21/2007 12:31 Analyzed: 12/27/2007 20:28

Antimony	0.820 U	5.00	ug/L							U
Arsenic	1.10 U	10.0	ug/L							U
Barium	5.00 U	100	ug/L							U
Beryllium	0.730 U	1.00	ug/L							U
Cadmium	0.820 U	3.00	ug/L							U
Chromium	0.690 U	10.0	ug/L							U
Cobalt	0.500 U	10.0	ug/L							U
Copper	0.500 U	10.0	ug/L							U
Iron	2.80 U	50.0	ug/L							U
Lead	0.500 U	5.00	ug/L							U
Nickel	0.500 U	10.0	ug/L							U
Selenium	3.10 U	10.0	ug/L							U
Silver	0.072 U	1.00	ug/L							U
Sodium	0.100 U	1.00	mg/L							U
Thallium	0.200 U	1.00	ug/L							U
Vanadium	0.500 U	10.0	ug/L							U
Zinc	6.60 U	50.0	ug/L							U

LCS (7L21010-BS1)

Prepared: 12/21/2007 12:31 Analyzed: 12/27/2007 20:35

Antimony	49.9	5.00	ug/L	50.0		100	85-115			
Arsenic	473	10.0	ug/L	500		95	85-115			
Barium	503	100	ug/L	500		101	85-115			
Beryllium	45.2	1.00	ug/L	50.0		90	85-115			
Cadmium	49.5	3.00	ug/L	50.0		99	85-115			
Chromium	489	10.0	ug/L	500		98	85-115			
Cobalt	501	10.0	ug/L	500		100	85-115			
Copper	495	10.0	ug/L	500		99	85-115			
Iron	959	50.0	ug/L	1000		96	85-115			
Lead	494	5.00	ug/L	500		99	85-115			
Nickel	494	10.0	ug/L	500		99	85-115			
Selenium	468	10.0	ug/L	500		94	85-115			
Silver	50.9	1.00	ug/L	50.0		102	85-115			
Sodium	23.2	1.00	mg/L	25.0		93	85-115			
Thallium	49.3	1.00	ug/L	50.0		99	85-115			
Vanadium	505	10.0	ug/L	500		101	85-115			
Zinc	489	50.0	ug/L	500		98	85-115			

Matrix Spike (7L21010-MS1)

Source: A706761-03

Prepared: 12/21/2007 12:31 Analyzed: 12/27/2007 20:52

Antimony	51.4	5.00	ug/L	50.0	1.01	101	85-115			
Arsenic	479	10.0	ug/L	500	1.10 U	96	85-115			
Barium	587	100	ug/L	500	70.1	103	85-115			
Beryllium	47.4	1.00	ug/L	50.0	0.730 U	95	85-115			
Cadmium	50.2	3.00	ug/L	50.0	0.820 U	100	85-115			
Chromium	489	10.0	ug/L	500	0.690 U	98	85-115			
Cobalt	504	10.0	ug/L	500	0.500 U	101	85-115			
Copper	501	10.0	ug/L	500	0.818	100	85-115			
Iron	1150	50.0	ug/L	1000	147	100	85-115			
Lead	495	5.00	ug/L	500	0.500 U	99	85-115			
Nickel	499	10.0	ug/L	500	1.11	100	85-115			
Selenium	475	10.0	ug/L	500	3.10 U	95	85-115			
Silver	51.1	1.00	ug/L	50.0	0.072 U	102	85-115			



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QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7L21010 - EPA 3005A

Matrix Spike (7L21010-MS1) Continued Source: A706761-03 Prepared: 12/21/2007 12:31 Analyzed: 12/27/2007 20:52

Sodium	47.8	1.00	mg/L	25.0	22.5	101	85-115			
Thallium	49.6	1.00	ug/L	50.0	0.324	99	85-115			
Vanadium	515	10.0	ug/L	500	0.731	103	85-115			
Zinc	490	50.0	ug/L	500	6.60 U	98	85-115			

Matrix Spike Dup (7L21010-MSD1) Source: A706761-03 Prepared: 12/21/2007 12:31 Analyzed: 12/27/2007 21:00

Antimony	51.5	5.00	ug/L	50.0	1.01	101	85-115	0.1	20	
Arsenic	479	10.0	ug/L	500	1.10 U	96	85-115	0.1	20	
Barium	585	100	ug/L	500	70.1	103	85-115	0.2	20	
Beryllium	48.0	1.00	ug/L	50.0	0.730 U	96	85-115	1	20	
Cadmium	49.7	3.00	ug/L	50.0	0.820 U	99	85-115	0.9	20	
Chromium	496	10.0	ug/L	500	0.690 U	99	85-115	1	20	
Cobalt	502	10.0	ug/L	500	0.500 U	100	85-115	0.4	20	
Copper	496	10.0	ug/L	500	0.818	99	85-115	1	20	
Iron	1160	50.0	ug/L	1000	147	101	85-115	1	20	
Lead	497	5.00	ug/L	500	0.500 U	99	85-115	0.5	20	
Nickel	494	10.0	ug/L	500	1.11	99	85-115	0.9	20	
Selenium	456	10.0	ug/L	500	3.10 U	91	85-115	4	20	
Silver	51.9	1.00	ug/L	50.0	0.072 U	104	85-115	2	20	
Sodium	46.9	1.00	mg/L	25.0	22.5	98	85-115	2	20	
Thallium	50.9	1.00	ug/L	50.0	0.324	101	85-115	3	20	
Vanadium	512	10.0	ug/L	500	0.731	102	85-115	0.6	20	
Zinc	486	50.0	ug/L	500	6.60 U	97	85-115	0.8	20	

Post Spike (7L21010-PS1) Source: A706761-03 Prepared: 12/27/2007 12:00 Analyzed: 12/27/2007 21:08

Antimony	50.1	5.00	ug/L	50.0	1.01	98	75-125			
Arsenic	462	10.0	ug/L	500	1.10 U	92	75-125			
Barium	576	100	ug/L	500	70.1	101	75-125			
Beryllium	46.5	1.00	ug/L	50.0	0.730 U	93	75-125			
Cadmium	48.1	3.00	ug/L	50.0	0.820 U	96	75-125			
Chromium	481	10.0	ug/L	500	0.690 U	96	75-125			
Cobalt	502	10.0	ug/L	500	0.500 U	100	75-125			
Copper	489	10.0	ug/L	500	0.818	98	75-125			
Iron	1150	50.0	ug/L	1000	147	100	75-125			
Lead	490	5.00	ug/L	500	0.500 U	98	75-125			
Nickel	495	10.0	ug/L	500	1.11	99	75-125			
Selenium	467	10.0	ug/L	500	3.10 U	93	75-125			
Silver	49.0	1.00	ug/L	50.0	0.072 U	98	75-125			
Sodium	47.3	1.00	mg/L	25.0	22.5	99	75-125			
Thallium	49.6	1.00	ug/L	50.0	0.324	99	75-125			
Vanadium	505	10.0	ug/L	500	0.731	101	75-125			
Zinc	480	50.0	ug/L	500	6.60 U	96	75-125			

Batch AA02567 - 7L17017

Serial Dilution (AA02567-SRD1) Source: A706824-01 Prepared: 12/20/2007 00:00 Analyzed: 12/21/2007 07:26

Mercury	0.06 U	1.20	ug/L		0.06 U			200	U	
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Serial Dilution (AA02567-SRD2) Source: A705481-02 Prepared: 12/20/2007 00:00 Analyzed: 12/21/2007 08:31

Mercury	0.06 U	1.20	ug/L					200	U	
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Batch AA02606 - 7L20020

Serial Dilution (AA02606-SRD1) Source: A707171-01 Prepared: 12/26/2007 00:00 Analyzed: 12/27/2007 15:20



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QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control

Batch AA02606 - 7L20020

Serial Dilution (AA02606-SRD1) Continued			Source: A707171-01		Prepared: 12/26/2007 00:00 Analyzed: 12/27/2007 15:20					
Antimony	4.10 U	25.0	ug/L						10	U
Arsenic	5.50 U	50.0	ug/L						10	U
Barium	25.0 U	500	ug/L						10	U
Beryllium	3.65 U	5.00	ug/L						10	U
Cadmium	4.10 U	15.0	ug/L						10	U
Chromium	3.45 U	50.0	ug/L						10	U
Cobalt	2.50 U	50.0	ug/L						10	U
Copper	2.50 U	50.0	ug/L						10	U
Iron	35.7	250	ug/L						10	
Lead	2.50 U	25.0	ug/L						10	U
Nickel	2.50 U	50.0	ug/L						10	U
Selenium	15.5 U	50.0	ug/L						10	U
Silver	0.360 U	5.00	ug/L						10	U
Sodium	0.554 U	5.00	ug/L						10	U
Thallium	1.00 U	5.00	ug/L						10	U
Vanadium	2.50 U	50.0	ug/L						10	U
Zinc	33.0 U	250	ug/L						10	U

Serial Dilution (AA02606-SRD2)			Source: A706761-03		Prepared: 12/26/2007 00:00 Analyzed: 12/27/2007 21:17					
Antimony	5.32	25.0	ug/L		1.01				10	
Arsenic	5.50 U	50.0	ug/L		5.50 U				10	U
Barium	30.0	500	ug/L		70.1			80	10	
Beryllium	3.65 U	5.00	ug/L		3.65 U				10	U
Cadmium	4.10 U	15.0	ug/L		4.10 U				10	U
Chromium	3.45 U	50.0	ug/L		3.45 U				10	U
Cobalt	2.50 U	50.0	ug/L		2.50 U				10	U
Copper	2.50 U	50.0	ug/L		0.818				10	U
Iron	38.1	250	ug/L		147			118	10	
Lead	2.50 U	25.0	ug/L		2.50 U				10	U
Nickel	2.50 U	50.0	ug/L		1.11				10	U
Selenium	15.5 U	50.0	ug/L		15.5 U				10	U
Silver	0.360 U	5.00	ug/L		0.360 U				10	U
Sodium	21.3	5.00	ug/L		22.5			5	10	
Thallium	1.00 U	5.00	ug/L		0.324				10	U
Vanadium	2.50 U	50.0	ug/L		0.731				10	U
Zinc	33.0 U	250	ug/L		33.0 U				10	U

Serial Dilution (AA02606-SRD3)			Source: A707318-01		Prepared: 12/26/2007 00:00 Analyzed: 12/28/2007 02:39					
Antimony	1.64 U	10.0	ug/L						10	U
Arsenic	2.20 U	20.0	ug/L						10	U
Barium	10.0 U	200	ug/L						10	U
Beryllium	1.46 U	2.00	ug/L						10	U
Cadmium	1.64 U	6.00	ug/L						10	U
Chromium	2.42	20.0	ug/L						10	
Cobalt	1.00 U	20.0	ug/L						10	U
Copper	1.00 U	20.0	ug/L						10	U
Iron	3570	100	ug/L						10	
Lead	1.93	10.0	ug/L						10	
Nickel	1.00 U	20.0	ug/L						10	U
Selenium	6.20 U	20.0	ug/L						10	U
Silver	0.144 U	2.00	ug/L						10	U



Special Notes

- [1] V = Analyte is found in the associated blank as well as in the sample (CLP B-flag).
- [2] I = Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- [3] QV- = The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact on the deviation.
- [4] QM- = The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- [5] QM- = Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
- [6] QR- = The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- [7] QV- = The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.
- [8] U = Analyte included in the analysis, but not detected



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LABORATORY CERTIFICATION SUMMARY

Analysis	Matrix	Cert ID	Cert Number
8011	Water	NELAC	E83182
8260B Appendix 1 FL	Water	NELAC	E83182
8270C PAH SIM	Water	NELAC	E83182
Ammonia 350.1	Water	NELAC	E83182
Antimony Total EPA 6020	Water	NELAC	E83182
Arsenic Total EPA 6020	Water	NELAC	E83182
Barium Total EPA 6020	Water	NELAC	E83182
Beryllium Total EPA 6020	Water	NELAC	E83182
Cadmium Total EPA 6020	Water	NELAC	E83182
Chloride 300	Water	NELAC	E83182
Chromium Total EPA 6020	Water	NELAC	E83182
Cobalt Total EPA 6020	Water	NELAC	E83182
Copper Total EPA 6020	Water	NELAC	E83182
Iron Total EPA 6020	Water	NELAC	E83182
Lead Total EPA 6020	Water	NELAC	E83182
Mercury Total EPA 7000	Water	NELAC	E83182
Nickel Total EPA 6020	Water	NELAC	E83182
Nitrate as N 300	Water	NELAC	E83182
Nitrite as N 300	Water	NELAC	E83182
Selenium Total EPA 6020	Water	NELAC	E83182
Silver Total EPA 6020	Water	NELAC	E83182
Sodium Total EPA 6020	Water	NELAC	E83182
TDS 160.1	Water	NELAC	E83182
Thallium Total EPA 6020	Water	NELAC	E83182
Vanadium Total EPA 6020	Water	NELAC	E83182
Zinc Total EPA 6020	Water	NELAC	E83182

