



ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Prepared For:

**Analytical Environment Services Inc.
3785 Presidential Parkway, Ste. #111
Atlanta, GA 30340**

Attention: Mr. Justin Sasser

Report Number: ARL0989

January 05, 2009

Project: 0812149

Project #:[none]

P.O. No. 8264

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Approved:


Project Manager

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Atlanta GA, 30340
Attention: Mr. Justin Sasser

January 05, 2009

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
081228-KFPRW-01	ARL0989-01	Soil/Sediment	12/28/08 09:00	12/31/08 12:45
081228-SPRRW-02	ARL0989-02	Soil/Sediment	12/28/08 09:56	12/31/08 12:45
081228-SPCRW-03	ARL0989-03	Soil/Sediment	12/28/08 10:42	12/31/08 12:45
081228-EERBS-SS04	ARL0989-04	Soil/Sediment	12/28/08 12:18	12/31/08 12:45
081228-ERPL-SS05	ARL0989-05	Soil/Sediment	12/28/08 13:15	12/31/08 12:45
081228-ERPR-SS06	ARL0989-06	Soil/Sediment	12/28/08 14:35	12/31/08 12:45
081228-ERER-SS07	ARL0989-07	Soil/Sediment	12/28/08 15:07	12/31/08 12:45
081228-ERER-SS07-DUP	ARL0989-08	Soil/Sediment	12/28/08 15:10	12/31/08 12:45
081228-ERER-SS08	ARL0989-09	Soil/Sediment	12/28/08 15:53	12/31/08 12:45
081228-SGUBR-SS09	ARL0989-10	Soil/Sediment	12/28/08 16:45	12/31/08 12:45
081228-KCPS-SS10	ARL0989-11	Soil/Sediment	12/28/08 17:20	12/31/08 12:45
081228-KCP-SS11	ARL0989-12	Soil/Sediment	12/28/08 17:57	12/31/08 12:45
081228-DKC-SS01	ARL0989-13	Soil/Sediment	12/27/08 11:45	12/31/08 12:45
081228-DKCL-SS02	ARL0989-14	Soil/Sediment	12/27/08 12:30	12/31/08 12:45



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Report No.: ARL0989

Lab Number ID: ARL0989-01

Client ID: 081228-KFPRW-01

Date/Time Received: 12/31/2008 1:06:00PM

Date/Time Sampled: 12/28/2008 9:00:00AM

Matrix: Soil/Sediment

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	80.5	0.04% by Weight		SOP Moisture		1	1/02/09 14:20	1/02/09 14:20	A901004	SSM
Metals										
Silicon	489	1.23	mg/kg dry wt. dry	EPA 6010B		1	1/02/09 8:30	1/02/09 14:31	A812970	FBS
Silica	1050	2.63	mg/kg dry	EPA 6010		1	1/02/09 8:30	1/02/09 14:31	[CALC]	FBS



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Report No.: ARL0989

Lab Number ID: ARL0989-02

Client ID: 081228-SPRRW-02

Date/Time Received: 12/31/2008 1:06:00PM

Date/Time Sampled: 12/28/2008 9:56:00AM

Matrix: Soil/Sediment

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	72.8	0.04%	by Weight	SOP Moisture		1	1/02/09 14:20	1/02/09 14:20	A901004	SSM
Metals										
Silicon	85.9	1.35	mg/kg dry wt. dry	EPA 6010B		1	1/02/09 8:30	1/02/09 14:38	A812970	FBS
Silica	184	2.90	mg/kg dry	EPA 6010		1	1/02/09 8:30	1/02/09 14:38	[CALC]	FBS



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Report No.: ARL0989

Lab Number ID: ARL0989-03

Client ID: 081228-SPCRW-03

Date/Time Received: 12/31/2008 1:06:00PM

Date/Time Sampled: 12/28/2008 10:42:00AM

Matrix: Soil/Sediment

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	70.6	0.04%	by Weight	SOP Moisture		1	1/02/09 14:20	1/02/09 14:20	A901004	SSM
Metals										
Silicon	38.1	0.56	mg/kg dry wt. dry	EPA 6010B		1	1/02/09 8:30	1/02/09 14:45	A812970	FBS
Silica	81.5	1.20	mg/kg dry	EPA 6010		1	1/02/09 8:30	1/02/09 14:45	[CALC]	FBS



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Report No.: ARL0989

Lab Number ID: ARL0989-04

Client ID: 081228-EERBS-SS04

Date/Time Received: 12/31/2008 1:06:00PM

Date/Time Sampled: 12/28/2008 12:18:00PM

Matrix: Soil/Sediment

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	78.9	0.04%	by Weight	SOP Moisture		1	1/02/09 14:20	1/02/09 14:20	A901004	SSM
Metals										
Silicon	123	1.26	mg/kg dry wt. dry	EPA 6010B		1	1/02/09 8:30	1/02/09 14:53	A812970	FBS
Silica	263	2.70	mg/kg dry	EPA 6010		1	1/02/09 8:30	1/02/09 14:53	[CALC]	FBS



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Report No.: ARL0989

Lab Number ID: ARL0989-05

Client ID: 081228-ERPL-SS05

Date/Time Received: 12/31/2008 1:06:00PM

Date/Time Sampled: 12/28/2008 1:15:00PM

Matrix: Soil/Sediment

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	77.0	0.04% by Weight		SOP Moisture		1	1/02/09 14:20	1/02/09 14:20	A901004	SSM
Metals										
Silicon	89.7	1.29	mg/kg dry wt. dry	EPA 6010B		1	1/02/09 8:30	1/02/09 15:10	A812970	FBS
Silica	192	2.77	mg/kg dry	EPA 6010		1	1/02/09 8:30	1/02/09 15:10	[CALC]	FBS



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Report No.: ARL0989

Lab Number ID: ARL0989-06

Client ID: 081228-ERPR-SS06

Date/Time Received: 12/31/2008 1:06:00PM

Date/Time Sampled: 12/28/2008 2:35:00PM

Matrix: Soil/Sediment

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	77.4	0.04% by Weight		SOP Moisture		1	1/02/09 14:20	1/02/09 14:20	A901004	SSM
Metals										
Silicon	90.2	1.27	mg/kg dry wt. dry	EPA 6010B		1	1/02/09 8:30	1/02/09 15:17	A812970	FBS
Silica	193	2.71	mg/kg dry	EPA 6010		1	1/02/09 8:30	1/02/09 15:17	[CALC]	FBS



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Report No.: ARL0989

Lab Number ID: ARL0989-07

Client ID: 081228-ERER-SS07

Date/Time Received: 12/31/2008 1:06:00PM

Date/Time Sampled: 12/28/2008 3:07:00PM

Matrix: Soil/Sediment

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	84.2	0.04%	by Weight	SOP Moisture		1	1/02/09 14:20	1/02/09 14:20	A901004	SSM
Metals										
Silicon	150	1.19	mg/kg dry wt. dry	EPA 6010B		1	1/02/09 8:30	1/02/09 15:24	A812970	FBS
Silica	320	2.54	mg/kg dry	EPA 6010		1	1/02/09 8:30	1/02/09 15:24	[CALC]	FBS



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January 05, 2009

Report No.: ARL0989

Lab Number ID: ARL0989-08

Client ID: 081228-ERER-SS07-DUP

Date/Time Received: 12/31/2008 1:06:00PM

Date/Time Sampled: 12/28/2008 3:10:00PM

Matrix: Soil/Sediment

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	82.2	0.04% by Weight		SOP Moisture		1	1/02/09 14:20	1/02/09 14:20	A901004	SSM
Metals										
Silicon	107	1.21	mg/kg dry wt. dry	EPA 6010B		1	1/02/09 8:30	1/02/09 15:31	A812970	FBS
Silica	228	2.59	mg/kg dry	EPA 6010		1	1/02/09 8:30	1/02/09 15:31	[CALC]	FBS



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Report No.: ARL0989

Lab Number ID: ARL0989-09

Client ID: 081228-ERER-SS08

Date/Time Received: 12/31/2008 1:06:00PM

Date/Time Sampled: 12/28/2008 3:53:00PM

Matrix: Soil/Sediment

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	78.8	0.04%	by Weight	SOP Moisture		1	1/02/09 14:20	1/02/09 14:20	A901004	SSM
Metals										
Silicon	111	1.27	mg/kg dry wt. dry	EPA 6010B		1	1/02/09 8:30	1/02/09 15:38	A812970	FBS
Silica	238	2.71	mg/kg dry	EPA 6010		1	1/02/09 8:30	1/02/09 15:38	[CALC]	FBS



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Report No.: ARL0989

Lab Number ID: ARL0989-10

Client ID: 081228-SGUBR-SS09

Date/Time Received: 12/31/2008 1:06:00PM

Date/Time Sampled: 12/28/2008 4:45:00PM

Matrix: Soil/Sediment

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	77.6	0.04% by Weight		SOP Moisture		1	1/02/09 14:20	1/02/09 14:20	A901004	SSM
Metals										
Silicon	108	1.26	mg/kg dry wt. dry	EPA 6010B		1	1/02/09 8:30	1/02/09 15:43	A812970	FBS
Silica	232	2.70	mg/kg dry	EPA 6010		1	1/02/09 8:30	1/02/09 15:43	[CALC]	FBS



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Report No.: ARL0989

Lab Number ID: ARL0989-11

Client ID: 081228-KCPS-SS10

Date/Time Received: 12/31/2008 1:06:00PM

Date/Time Sampled: 12/28/2008 5:20:00PM

Matrix: Soil/Sediment

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	75.7	0.04% by Weight		SOP Moisture		1	1/02/09 14:20	1/02/09 14:20	A901004	SSM
Metals										
Silicon	110	1.30	mg/kg dry wt. dry	EPA 6010B		1	1/02/09 8:30	1/02/09 15:50	A812970	FBS
Silica	235	2.79	mg/kg dry	EPA 6010		1	1/02/09 8:30	1/02/09 15:50	[CALC]	FBS



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Report No.: ARL0989

Lab Number ID: ARL0989-12

Client ID: 081228-KCP-SS11

Date/Time Received: 12/31/2008 1:06:00PM

Date/Time Sampled: 12/28/2008 5:57:00PM

Matrix: Soil/Sediment

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	76.7	0.04% by Weight		SOP Moisture		1	1/02/09 14:20	1/02/09 14:20	A901004	SSM
Metals										
Silicon	137	1.27	mg/kg dry wt. dry	EPA 6010B		1	1/02/09 8:30	1/02/09 15:57	A812970	FBS
Silica	292	2.72	mg/kg dry	EPA 6010		1	1/02/09 8:30	1/02/09 15:57	[CALC]	FBS



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Report No.: ARL0989

Lab Number ID: ARL0989-13

Client ID: 081228-DKC-SS01

Date/Time Received: 12/31/2008 1:06:00PM

Date/Time Sampled: 12/27/2008 11:45:00AM

Matrix: Soil/Sediment

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	67.8	0.04%	by Weight	SOP Moisture		1	1/02/09 14:20	1/02/09 14:20	A901004	SSM
Metals										
Silicon	18.7	0.59	mg/kg dry wt. dry	EPA 6010B		1	1/02/09 8:30	1/02/09 16:06	A812970	FBS
Silica	40.1	1.25	mg/kg dry	EPA 6010		1	1/02/09 8:30	1/02/09 16:06	[CALC]	FBS



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Report No.: ARL0989

Lab Number ID: ARL0989-14

Client ID: 081228-DKCL-SS02

Date/Time Received: 12/31/2008 1:06:00PM

Date/Time Sampled: 12/27/2008 12:30:00PM

Matrix: Soil/Sediment

Analyte	Result	RL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry										
% Solids	81.0	0.04% by Weight		SOP Moisture		1	1/02/09 14:20	1/02/09 14:20	A901004	SSM
Metals										
Silicon	496	1.20	mg/kg dry wt. dry	EPA 6010B		1	1/02/09 8:30	1/02/09 16:09	A812970	FBS
Silica	1060	2.58	mg/kg dry	EPA 6010		1	1/02/09 8:30	1/02/09 16:09	[CALC]	FBS



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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A901004 - % Solids										
Duplicate (A901004-DUP1) Source: ARL0955-05 Prepared & Analyzed: 01/02/09										
% Solids	81.6	0.04 % by Weight			82.7			1	12	
Duplicate (A901004-DUP2) Source: ARL0955-06 Prepared & Analyzed: 01/02/09										
% Solids	92.7	0.04 % by Weight			93.0			0.3	12	



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Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A812970 - EPA 3050B										
Blank (A812970-BLK1) Prepared & Analyzed: 01/02/09										
Silicon	ND	4.00 mg/kg dry wt.	wet							
LCS (A812970-BS1) Prepared & Analyzed: 01/02/09										
Silicon	95.7	4.00 mg/kg dry wt.	wet	100.00		96	75-125			
Duplicate (A812970-DUP1) Source: ARL0989-09 Prepared & Analyzed: 01/02/09										
Silicon	196	1.27 mg/kg dry wt.	dry		111			55	20	QR-05
Matrix Spike (A812970-MS1) Source: ARL0989-09 Prepared & Analyzed: 01/02/09										
Silicon	313	1.27 mg/kg dry wt.	dry	31.716	111	636	75-125			QR-04
Matrix Spike Dup (A812970-MSD1) Source: ARL0989-09 Prepared & Analyzed: 01/02/09										
Silicon	272	1.27 mg/kg dry wt.	dry	31.716	111	507	75-125	23	20	QM-02
Post Spike (A812970-PS1) Source: ARL0989-09 Prepared & Analyzed: 01/02/09										
Silicon	6.06		mg/L	1.0000	3.50	256	75-125			QM-02



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Laboratory Certifications

Code	Description	Number	Expires
NC	North Carolina	381	12/31/2008
NELAC	NELAC certification	E87315	06/30/2009



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Legend

Definition of Laboratory Terms

- ND** - None Detected at the Reporting Limit
- TIC** - Tentatively Identified Compound
- CFU** - Colony Forming Units
- SOP** - Method run per ASI Standard Operating Procedure
- RL** - Reporting Limit
- DF** - Dilution Factor
- *** - Analyte not included in the NELAC list of certified analytes.

Sample Information

N-Nitrosodiphenylamine breaks down to diphenylamine in the GCMS; both analytes are reported as N-Nitrosodiphenylamine. ASI is not NELAC certified for N-Nitrosodiphenylamine.

Phthalic acid and phthalic anhydride are reported as dimethyl phthalate

Maleic acid and maleic anhydride are reported as dimethyl malate

1,2-Diphenylhydrazine breaks down to azobenzene in the GCMS; both analytes are reported as azobenzene

Definition of Qualifiers

- QR-05** The RPD for the sample and sample duplicate are outside established control limits due to the non-homogeneity of the sample matrix.
- QR-04** The RPD result for the MS/MSD exceeded the established QC control limits. Sample results for the QC batch were accepted based on LCS recovery.
- QM-02** The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Note: Unless otherwise noted, all results are reported on an as received basis.



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3785 Presidential Parkway, Atlanta, GA 30340, USA
AES TEL: (770) 734-4200 FAX: (770) 734-4200
E-MAIL: info@aesllab.com

Date: 1/16/09
Page: 2

CLIENT		ANALYSIS REQUESTED	
NAME	ADDRESS	Visit our website www.aesllab.com to check on the status of your results, place bottle orders, etc.	
PROJECT	CONTRACT	No. of Containers	
NAME	DATE	TIME	ANALYSIS
081216-KFPRW-01	12/15/08	0700	SE
081228-SPRW-02		0936	X
081228-SPRW-03		1042	X
081228-ERPS-5504		1218	X
081228-ERPL-5505		1315	X
081228-ERPR-5506		1435	X
081228-ERER-5507		1507	X
081228-ERER-5507-DUP		1516	X
081228-ERER-5508		1553	X
081228-SGUBR-5509		1645	X
081228-KCP-5510		1720	X
081228-KCP-5511		1757	X
081227-DKC-5501	12/15/08	1145	X
081227-DKCL-5502		1230	X

PROJECT NAME	PROJECT #	ANALYSIS REQUESTED	ANALYSIS RESULTS
0812149	Justin Sasser	ISASSER@AESLLAB.COM	See 1st Page (not req)

Report to MDL with 5 flags



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order:

ADL-0889 2

Date: Page of

COMPANY: AES, Inc.		ADDRESS: ↑		ANALYSIS REQUESTED				Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers
PHONE:		FAX:		PRESERVATION (See codes)				REMARKS		
SAMPLED BY:		SIGNATURE:		I						
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix				
1	081228-KFPRW-01	12/25/08	0900			SE	X		1	
2	081228-SPRRW-02		0956				X		2	
3	081228-SPCRW-03		1042				X		3	
4	081228-EERBS-SS04		1218				X		4	
5	081228-ERPL-SS05		1315				X		5	
6	081228-ERPR-SS06		1435				X		6	
7	081228-ERER-SS07		1507				X		7	
8	081228-ERER-SS07-DUP		1510				X		8	
9	081228-ERER-SS08		1553				X		9	
10	081228-SGUBR-SS09		1645				X		10	
11	081228-KCPS-SS10		1720				X		11	
12	081228-KCP-SS11		1757				X		12	
13	081227-DKC-SS01	12/27/08	1145				X		13	
14	081227-DKCL-SS02		1230				X		14	
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION		RECEIPT
1: <i>[Signature]</i>		12/31/08 1215		1: <i>[Signature]</i>		12/31/08 1230		PROJECT NAME: 0812 I 49		Total # of Containers
2: <i>[Signature]</i>		12/31/08 1245		2: <i>[Signature]</i>		12/31/08 1245		PROJECT #:		Turnaround Time Request
3: <i>[Signature]</i>				3: <i>[Signature]</i>				SITE ADDRESS: JUSTIN SASSER		Standard 3 Business Days
								SEND REPORT TO: JSASSER@AESATLANTA.COM		2 Business Day Rush
								INVOICE TO: (IF DIFFERENT FROM ABOVE)		Next Business Day Rush
SPECIAL INSTRUCTIONS/COMMENTS: Report to MDL with J-flays				SHIPMENT METHOD				QUOTE #:		Same Day Rush (auth req.)
				OUT / / VIA:				PO#: 8264		Other
				IN / / VIA:						STATE PROGRAM (if any):
				CLIENT FedEx UPS MAIL COURIER						E-mail? Y / N; Fax? Y / N
				GREYHOUND OTHER						DATA PACKAGE: I II III IV
SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.										
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.										
MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)										
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None										

White Copy - Original; Yellow Copy - Client



ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST

Printed: 12/31/2008 1:15:56PM

Attn: Mr. Justin Sasser

Client: Analytical Environment Services Inc.
Project: 0812149
Date Received: 12/31/08 13:06

Work Order: ARL0989
Logged In By: Charles Hawks

NPDES:

OBSERVATIONS

#Samples: 14

#Containers: 15

Minimum Temp(C): 12.0

Maximum Temp(C): 12.0

Custody Seal(s):

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	NO
Sample Container(s) Match COC	YES
Custody seal Intact	NO
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	YES
Preservation Confirmed	YES

*Project Requires report to the MDL
The sample type was not listed on the COC. CFH.*