Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

June 17, 2009

Keith Roberts
Olin Enviromental Management
Charleston Plant
1186 Lower river Road
Charleston, TN 37310

RE: Project 2096174
Project ID: OU2/6107090035/2009.06

Dear Keith Roberts:

Enclosed are the analytical results for sample(s) received by the laboratory on May 29, 2009. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerly,

Cindy Olavesen

Cindy Olavesen
cindy.olavesen@pacelabs.com

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, execpt in full, without the written consent of Pace Analytical Services, Inc.

Laboratory Certifications

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 2096174

Client: Olin Enviromental Management

Project ID: OU2/6107090035/2009.06

U.S. Dept. of Agriculture Foreign Soil Import S-47270

Pennsylviania Dept. of Env Protection (NELAC) 68-04202

Texas Commission on Env. Quality (NELAC) T104704405-08-TX

Kansas Department of Health and Environment (NELAC) E-10266

Florida Department of Health (NELAC) E87595

Louisiana Dept. of Health and Hospitals (NELAC) LA080013

Louisiana Dept. of Environmental Quality (NELAC/LELAP) 02006

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, execpt in full, without
the written consent of Pace Analytical Services, Inc.

Sample Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 2096174

Client: Olin Enviromental Management

Project ID: OU2/6107090035/2009.06

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
OU2B-SED-ST13-0509	20695383	Water	28-May-09 11:00	29-May-09 09:45
OU2B-SED-ST23-0509	20695384	Water	28-May-09 11:45	29-May-09 09:45
OU2B-SED-ST24-0509	20695385	Water	28-May-09 13:45	29-May-09 09:45
OU2B-SED-ST15-0509	20695386	Water	28-May-09 11:25	29-May-09 09:45

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST13-0509
Project: 2096174
Project ID: OU2/6107090035/2009.06
Site: None
Lab ID: 20695383
Matrix: Water
%Moisture: n/a
Description: None
Collected: 28-May-09
Received: 29-May-09

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis		Limit
Total Suspended Solids	SM 2540D	119665	1		29900	mg/L	4.00	02-Jun-09	02-Jun-09 15:14	LJL	

1 parameter(s) reported

Inorganics 6/17/2009 14:33:38

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST23-0509
Project: 2096174
Project ID: OU2/6107090035/2009.06
Site: None
Lab ID: 20695384
Matrix: Water
%Moisture: n/a
Description: None
Collected: 28-May-09
Received: 29-May-09

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis		Limit
Total Suspended Solids	SM 2540D	119581	1		200.	mg/L	4.00	01-Jun-09	01-Jun-09 13:54	LJL	

1 parameter(s) reported

Inorganics 6/17/2009 14:33:38

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
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Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST24-0509
Project: 2096174
Project ID: OU2/6107090035/2009.06
Site: None
Lab ID: 20695385
Matrix: Water
%Moisture: n/a
Description: None
Collected: 28-May-09
Received: 29-May-09

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis		Limit
Total Suspended Solids	SM 2540D	119581	1		2050	mg/L	4.00	01-Jun-09	01-Jun-09 13:54	LJL	

1 parameter(s) reported

Inorganics 6/17/2009 14:33:38

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST15-0509
Project: 2096174
Project ID: OU2/6107090035/2009.06
Site: None
Lab ID: 20695386
Matrix: Water
%Moisture: n/a
Description: None
Collected: 28-May-09
Received: 29-May-09

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis		Limit
Total Suspended Solids	SM 2540D	119581	1		100.	mg/L	4.00	01-Jun-09	01-Jun-09 13:54	LJL	

1 parameter(s) reported

Inorganics 6/17/2009 14:33:38

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Inorganics Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 2096174

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Total Suspended	119581	ND	4.00	mg/L	100.	89.0	89							0	80-120		20	
Total Suspended	119665	ND	4.00	mg/L	100.	95.5	96							0	80-120		20	

6/17/2009 14:33:39

*** denotes recovery outside of QC limits.**
ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Definitions/Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 2096174

Value	Description
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
U	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
B	This analyte was detected in the method blank.
E	The sample concentration is above the linear calibrated range of the analysis.
ND	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL	The adjusted method detection limit.
LCS(D)	Laboratory Control Sample (Duplicate).
MS(D)	Matrix Spike (Duplicate).
DUP	Sample Duplicate.
RPD	Relative Percent Difference.

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2096174
~~2095492~~
6

Page: 1 of 1

1192074

Section A
Required Client Information:

Company: MACTEC/Olin
Address: 3200 Town Pt Dr. NW Ste 100
Kennesaw, GA 30144
Email To: cedraper@mactec.com
Phone: 770-421-3400 Fax: 770-424-3462
Requested Due Date/TAT: Standard

Section B
Required Project Information:

Report To: Kdroberts@olin.com
Copy To: kpwatson@mactec.com
mbarker@mactec.com
Purchase Order No.: OEMC0013-80
Project Name: OU2 ~~Cindy Olavesen~~
Project Number: 6107090035 / 2009.06

Attention: Dennis Turner
Company Name: Olin
Address: 3055 N Ocoee St Cleveland TN
Pace Quote Reference:
Pace Project Manager: Cindy Olavesen
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER CERCLA

Site Location STATE: AL

Section D
Required Client Information

Matrix Codes
MATRIX / CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Tissue TS
Other OT

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Sediment

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	THg	%M	Density	TSS	TOC	SM2540G - T, solids	Inorganic solids	Organic solids 2540G				Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.
1	OU2B-SED-ST13-0509	OT	G			5/28/09	1100	6	3	X									X	X	X	X	X	X	X	X			206	95307/354/383
2	OU2B-SED-ST23-0509	OT	G			5/28/09	1145	6	6	X									X	X	X	X	X	X	X	X			6	346/356/384
3	OU2B-SED-ST24-0509	OT	G			5/28/09	1345	6	6	X									X	X	X	X	X	X	X	X			6	347/381/385
4	OU2B-SED-ST15-0509	OT	G			5/28/09	1125	6	6	X									X	X	X	X	X	X	X	X			6	348/382/386
5	(*) return end product to MACTEC for grain size analysis																														
6																															
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
- Analyze as sample size permits in this order - THg, %M, density, TSS, TOC	RMReece/MACTEC	5/28/09	1830							
	[illegible]	5-29-09	0945	[illegible]	5-29-09	0945	4.4	Y	Y	Y
- 1L jar from each sample to be analyzed for SM2540G (solids) - total, organic, inorganic										

ORIGINAL

SAMPLER NAME AND SIGNATURE: Rani Reece RReece
PRINT Name of SAMPLER: Melissa Rottenberg / Rani Reece
SIGNATURE of SAMPLER: Melissa Rottenberg
DATE Signed (MM/DD/YY): 5/28/09

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
(920)469-2436

June 17, 2009

Cindy Olavesen
Pace Analytical New Orleans
1000 Riverbend Blvd
Suite F
St. Rose, LA 70087

RE: Project 4018024
Project ID: 2095492 MACTEC

Dear Cindy Olavesen:

Enclosed are the analytical results for sample(s) received by the laboratory on June 02, 2009. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerly,

Steven Mleczko
steve.mleczko@pacelabs.com
(920)469-2436

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, execpt in full, without the written consent of Pace Analytical Services, Inc.

Project: 2096191

Client: PACE ANALYTICAL SERVICES, INC.

Project ID: 2095492 MACTEC

40	Green Bay Volatiles Certification IDs
40	Green Bay Certification IDs
40	California Certification #: 06247CA
40	Florida (NELAP) Certification #: E87951
40	Illinois Certification #: 200051
40	Kentucky Certification #: 83
40	Louisiana Certification #: 04169
40	Minnesota Certification #: 055-999-334
40	New York Certification #: 11887
40	North Carolina Certification #: 503
40	North Dakota Certification #: R-200
40	South Carolina Certification #: 83006001
40	Wisconsin Certification #: 405132750
40	Wisconsin DATCP Certification #: 105-444
40	California Certification #: 06246CA
40	Florida (NELAP) Certification #: E87948
40	Illinois Certification #: 200050
40	Kentucky Certification #: 82
40	Louisiana Certification #: 04168
40	Minnesota Certification #: 055-999-334
40	New York Certification #: 11888
40	North Carolina Certification #: 503
40	North Dakota Certification #: R-150
40	South Carolina Certification #: 83006001
40	Wisconsin Certification #: 405132750
40	Wisconsin DATCP Certification #: 105-444

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Sample Cross Reference

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
(920)469-2436

Project: 2096191

Client: PACE ANALYTICAL SERVICES, INC.

Project ID: 2095492 MACTEC

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
OU2B-SED-ST-13-0509	2095492001	SOIL	28-May-09 11:00	02-Jun-09 09:45
OU2B-SED-ST-23-0509	2095492002	SOIL	28-May-09 11:45	02-Jun-09 09:45
OU2B-SED-ST-24-0509	2095492003	SOIL	28-May-09 13:45	02-Jun-09 09:45
OU2B-SED-ST-15-0509	2095492004	SOIL	28-May-09 11:25	02-Jun-09 09:45

Sample Results

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
(920)469-2436

Client: PACE ANALYTICAL SERVICES, INC.

Client ID: OU2B-SED-ST-13-0509
Project: 2096191
Project ID: 2095492 MACTEC
Site: none
Lab ID: 2095492001
Matrix: Soil
%Moisture: 1 not corrected
Description: none
Collected: 28-May-09
Received: 28-May-09

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis	Limit
Mean Total Organic Carb	EPA 9060 Mod	25944	1		38600	mg/kg	13300	09-Jun-09	09-Jun-09 10:37 DJR40	

1 parameter(s) reported

Inorganics 6/17/2009 14:43:36

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
(920)469-2436

Client: PACE ANALYTICAL SERVICES, INC.

Client ID: OU2B-SED-ST-23-0509
Project: 2096191
Project ID: 2095492 MACTEC
Site: none
Lab ID: 2095492002
Matrix: Soil
%Moisture: 1 not corrected
Description: none
Collected: 28-May-09
Received: 28-May-09

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis	Limit
Mean Total Organic Carb	EPA 9060 Mod	25944	1		19700	mg/kg	8700	09-Jun-09	09-Jun-09 10:51 DJR40	

1 parameter(s) reported

Inorganics 6/17/2009 14:43:36

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
(920)469-2436

Client: PACE ANALYTICAL SERVICES, INC.

Client ID: OU2B-SED-ST-24-0509
Project: 2096191
Project ID: 2095492 MACTEC
Site: none
Lab ID: 2095492003
Matrix: Soil
%Moisture: 1 not corrected
Description: none
Collected: 28-May-09
Received: 28-May-09

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis	Limit
Mean Total Organic Carb	EPA 9060 Mod	25944	1		5080	mg/kg	1600	09-Jun-09	09-Jun-09 11:14 DJR40	

1 parameter(s) reported

Inorganics 6/17/2009 14:43:36

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
(920)469-2436

Client: PACE ANALYTICAL SERVICES, INC.

Client ID: OU2B-SED-ST-15-0509
Project: 2096191
Project ID: 2095492 MACTEC
Site: none
Lab ID: 2095492004
Matrix: Soil
%Moisture: 1 not corrected
Description: none
Collected: 28-May-09
Received: 28-May-09

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis	Limit
Mean Total Organic Carb	EPA 9060 Mod	25944	1		21800	mg/kg	6670	09-Jun-09	09-Jun-09 11:29 DJR40	

1 parameter(s) reported

Inorganics 6/17/2009 14:43:36

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MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
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Inorganics Quality Control

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
(920)469-2436

Project: 2096191

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Mean Total Organ	25944	ND	250.	mg/kg	1000	1070	107	1990	ND	3180	3870	66	99	20	80-120	50-150	30	
Mean Total Organ	25944			mg/kg				36400	ND	86700	85600	154 *	192 *	1		50-150	30	

6/17/2009 14:43:37

*** denotes recovery outside of QC limits.**
ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Definitions/Qualifiers

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
(920)469-2436

Project: 2096191

Value	Description
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
U	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
B	This analyte was detected in the method blank.
E	The sample concentration is above the linear calibrated range of the analysis.
ND	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL	The adjusted method detection limit.
LCS(D)	Laboratory Control Sample (Duplicate).
MS(D)	Matrix Spike (Duplicate).
DUP	Sample Duplicate.
RPD	Relative Percent Difference.

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2096191
~~2095492~~
6

Page: | of |

1192074

Section A
Required Client Information:

Company: MACTEC / Olin
Address: 3200 Town Pt Dr. NW Ste 100
Kennesaw, GA 30144
Email To: cedraper@mactec.com
Phone: 770-421-3400 Fax: 770-421-3462
Requested Due Date/TAT: Standard

Section B
Required Project Information:

Report To: kdroberts@olin.com
Copy To: kpwatson@mactec.com
mbarker@mactec.com
Purchase Order No.: OEMC0013-80
Project Name: OU2 ~~Cindy Olavesen~~
Project Number: 6107090035 / 2009.06

Attention: Dennis Turner
Company Name: Olin
Address: 3855 N Ocoee St Cleveland TN
Pace Quote Reference:
Pace Project Manager: Cindy Olavesen
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER CERCLA

Site Location STATE: AL

Requested Analysis Filtered (Y/N)

Section D
Required Client Information

Matrix Codes
MATRIX / CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Tissue TS
Other OT

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Sediment

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: THg	%M	Density	TSS	TOC	SM2540G - T. solids	inorganic solids	organic solids 2540G					Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.
1	OU2B-SED-ST13-0509	OT	G			5/28/09	1100	4	3	X								X	X	X	X	X	X	X	X				206		9530 / 351 / 3836
2	OU2B-SED-ST23-0509	OT	G			5/28/09	1145	4	6	X								X	X	X	X	X	X	X	X						346 / 356 / 384
3	OU2B-SED-ST24-0509	OT	G			5/28/09	1345	4	6	X								X	X	X	X	X	X	X	X				6		347 / 328 / 385
4	OU2B-SED-ST15-0509	OT	G			5/28/09	1125	4	6	X								X	X	X	X	X	X	X	X						348 / 382 / 386
5	⊗ return end product to MACTEC for grain																														
6	size analysis																														
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
- Analyze as sample size permits in this order - THg, %M density, TSS, TOC	RMReece / MACTEC	5/28/09	1830							
	[illegible]	5-29-09	0945	[illegible]	5-29-09	0945	4.4	Y	Y	Y
- 1L jar from each sample to be analyzed for SM2540G (solids) - total, organic, inorganic										

ORIGINAL

SAMPLER NAME AND SIGNATURE: Rani Reece RReece
PRINT Name of SAMPLER: Melissa Rottenberg / Rani Reece
SIGNATURE of SAMPLER: Melissa Rottenberg
DATE Signed (MM/DD/YY): 5/28/09

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

June 17, 2009

Keith Roberts
Olin Enviromental Management
Charleston Plant
1186 Lower river Road
Charleston, TN 37310

RE: Project 2095492
Project ID: OU2/6107090035/2009.06

Dear Keith Roberts:

Enclosed are the analytical results for sample(s) received by the laboratory on May 29, 2009. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerly,

Cindy Olavesen

Cindy Olavesen
cindy.olavesen@pacelabs.com

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, execpt in full, without the written consent of Pace Analytical Services, Inc.

Laboratory Certifications

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 2095492

Client: Olin Enviromental Management

Project ID: OU2/6107090035/2009.06

U.S. Dept. of Agriculture Foreign Soil Import S-47270

Pennsylviania Dept. of Env Protection (NELAC) 68-04202

Texas Commission on Env. Quality (NELAC) T104704405-08-TX

Kansas Department of Health and Environment (NELAC) E-10266

Florida Department of Health (NELAC) E87595

Louisiana Dept. of Health and Hospitals (NELAC) LA080013

Louisiana Dept. of Environmental Quality (NELAC/LELAP) 02006

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REPORT OF LABORATORY ANALYSIS

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the written consent of Pace Analytical Services, Inc.

Sample Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 2095492

Client: Olin Enviromental Management

Project ID: OU2/6107090035/2009.06

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
OU2B-SED-ST13-0509	20695307	Soil	28-May-09 09:45	29-May-09 09:45
OU2B-SED-ST23-0509	20695346	Soil	28-May-09 11:45	29-May-09 09:45
OU2B-SED-ST24-0509	20695347	Soil	28-May-09 13:45	29-May-09 09:45
OU2B-SED-ST15-0509	20695348	Soil	28-May-09 11:25	29-May-09 09:45

Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 2095492

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

All MS/MSD recoveries or duplicate RPDs were within QC limits.

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 2095492

Analytical Method	Batch	Sample used for QC
EPA 7471	119633	Batch sample from another client
% Moisture	119588	Batch sample from another client
SM 2710F-Mod	119566	Project sample OU2B-SED-ST13-0509

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST13-0509
Project: 2095492
Project ID: OU2/6107090035/2009.06
Site: None
Lab ID: 20695307
Matrix: Soil
%Moisture: 82.4 Corrected
Description: None
Collected: 28-May-09
Received: 29-May-09

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis	Limit
Mercury	EPA 7471	119633	10	D1	11.9	mg/kg	0.872	03-Jun-09	03-Jun-09 11:14 MHB1	

1 parameter(s) reported

Inorganics 6/17/2009 14:41:17

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST23-0509
Project: 2095492
Project ID: OU2/6107090035/2009.06
Site: None
Lab ID: 20695346
Matrix: Soil
%Moisture: 74.3 Corrected
Description: None
Collected: 28-May-09
Received: 29-May-09

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis	Limit
Mercury	EPA 7471	119633	10	D1	5.03	mg/kg	0.648	03-Jun-09	03-Jun-09 11:16 MHB1	

1 parameter(s) reported

Inorganics 6/17/2009 14:41:17

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST24-0509
Project: 2095492
Project ID: OU2/6107090035/2009.06
Site: None
Lab ID: 20695347
Matrix: Soil
%Moisture: 81.1 Corrected
Description: None
Collected: 28-May-09
Received: 29-May-09

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis	Limit
Mercury	EPA 7471	119633	10	D1	9.88	mg/kg	0.991	03-Jun-09	03-Jun-09 11:21 MHB1	

1 parameter(s) reported

Inorganics 6/17/2009 14:41:17

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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST15-0509
Project: 2095492
Project ID: OU2/6107090035/2009.06
Site: None
Lab ID: 20695348
Matrix: Soil
%Moisture: 82.4 Corrected
Description: None
Collected: 28-May-09
Received: 29-May-09

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis	Limit
Mercury	EPA 7471	119633	10	D1	7.31	mg/kg	0.950	03-Jun-09	03-Jun-09 11:23 MHB1	

1 parameter(s) reported

Inorganics 6/17/2009 14:41:17

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST13-0509
Project: 2095492
Project ID: OU2/6107090035/2009.06
Site: None
Lab ID: 20695307
Matrix: Soil
%Moisture: 82.4 Not Corrected
Description: None
Collected: 28-May-09
Received: 29-May-09

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis	Limit
Density	SM 2710F-Mod	119566	1		1.00	g/cm3	0.500	02-Jun-09	02-Jun-09 10:50 SMS2	

1 parameter(s) reported

Inorganics 6/17/2009 14:41:18

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST23-0509
Project: 2095492
Project ID: OU2/6107090035/2009.06
Site: None
Lab ID: 20695346
Matrix: Soil
%Moisture: 74.3 Not Corrected
Description: None
Collected: 28-May-09
Received: 29-May-09

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis	Limit
Density	SM 2710F-Mod	119566	1		0.956	g/cm3	0.500	02-Jun-09	02-Jun-09 10:50 SMS2	

1 parameter(s) reported

Inorganics 6/17/2009 14:41:18

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST24-0509
Project: 2095492
Project ID: OU2/6107090035/2009.06
Site: None
Lab ID: 20695347
Matrix: Soil
%Moisture: 81.1 Not Corrected
Description: None
Collected: 28-May-09
Received: 29-May-09

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis	Limit
Density	SM 2710F-Mod	119566	1		0.978	g/cm3	0.500	02-Jun-09	02-Jun-09 10:50 SMS2	

1 parameter(s) reported

Inorganics 6/17/2009 14:41:18

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST15-0509
Project: 2095492
Project ID: OU2/6107090035/2009.06
Site: None
Lab ID: 20695348
Matrix: Soil
%Moisture: 82.4 Not Corrected
Description: None
Collected: 28-May-09
Received: 29-May-09

Analyte	Method	Batch	DF	Qu	Result	Units	Reporting Limit	Prep.	Analysis	Limit
Density	SM 2710F-Mod	119566	1		1.04	g/cm3	0.500	02-Jun-09	02-Jun-09 10:50 SMS2	

1 parameter(s) reported

Inorganics 6/17/2009 14:41:18

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MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Inorganics Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 2095492

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Mercury	119633	0.0177J	0.0200	mg/kg	0.100	0.104	104	0.0968	0.0385	0.133	0.128	98	98	4	80-120	75-125	20	

6/17/2009 14:41:20

*** denotes recovery outside of QC limits.**
ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Inorganics Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 2095492

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Density	119566			g/cm3	1.00	0.998	100							0	97-103		20	

6/17/2009 14:41:21

*** denotes recovery outside of QC limits.**
ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Definitions/Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 2095492

Value	Description
D1	The analysis was performed at a dilution due to the high analyte concentration.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
U	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
B	This analyte was detected in the method blank.
E	The sample concentration is above the linear calibrated range of the analysis.
ND	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL	The adjusted method detection limit.
LCS(D)	Laboratory Control Sample (Duplicate).
MS(D)	Matrix Spike (Duplicate).
DUP	Sample Duplicate.
RPD	Relative Percent Difference.

2095492 20-OLIN ENV

Pace Analytical®
www.pacelabs.com

2095492

Page: 1 of 1

1192074

Section A
Required Client Information:

Company:	MACTEC / Olin
Address:	3200 Town Pt Dr. NW Ste 100 Kennesaw, GA 30144
Email To:	cedraper@mactec.com
Phone:	770-421-3400
Fax:	770-421-3462
Requested Due Date/TAT:	Standard

Section B
Required Project Information:

Report To:	kdroberts@olin.com
Copy To:	kpwatson@mactec.com
	mbarker@mactec.com
Purchase Order No.:	OEMC0013-80
Project Name:	OU2 ~~Cindy Olavesen~~
Project Number:	6107090035 / 2009.06

Attention:	Dennis Turner
Company Name:	Olin
Address:	3855 N Ocoee St Cleveland TN
Pace Quote Reference:	
Pace Project Manager:	Cindy Olavesen
Pace Profile #:	

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER CERCLA

Site Location STATE: AL

Requested Analysis Filtered (Y/N)

Section D
Required Client Information

Matrix Codes
MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Sediment

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	THg	% M	Density	TSS	TOC	SM2540G - T, solids	Inorganic solids	organic solids				Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	OU2B-SED-ST13-0509	OT	G			5/28/09	1100	3	3	X									X	X	X	X	X	X	X	X			206		95307/351/383
2	OU2B-SED-ST23-0509	OT	G			5/28/09	1145	6	6	X									X	X	X	X	X	X	X	X					346/356/384
3	OU2B-SED-ST24-0509	OT	G			5/28/09	1345	6	6	X									X	X	X	X	X	X	X	X					347/381/385
4	OU2B-SED-ST15-0509	OT	G			5/28/09	1125	6	6	X									X	X	X	X	X	X	X	X					348/382/386
5	(*) return end product to MACTEC for grain size analysis																														
6																															
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
- Analyze as sample size permits in this order - THg, %M, density, TSS, TOC	RMReece / MACTEC	5/28/09	1830							
	[illegible]	5-29-09	0945	[illegible]	5-29-09	0945	4.4	Y	Y	Y
- 1L jar from each sample to be analyzed for SM2540G (solids) - total, organic, inorganic										

ORIGINAL

SAMPLER NAME AND SIGNATURE: Rani Reece [signature]
PRINT Name of SAMPLER: Melissa Rottenberg / Rani Reece
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 5/28/09

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

2095492 20-OLIN ENV

Pace Analytical

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Sample Condition U

Courier: ☐ Pace Courier ☐ Hackbarth ☑ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals Intact: ☑Yes ☐No

Therometer Used: ☑ Therm Fisher IR 1 ☐ Therm Fisher IR 2

Type of Ice: (Wet) Blue None

Samples on Ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining contents: W 5/29/09

Temp must be measured from Temperature blank when present

				Comments:
Temperature Blank Present"?	☑Yes	☐No	☐N/A	1
Chain of Custody Present:	☑Yes	☐No	☐N/A	2
Chain of Custody Complete:	☑Yes	☐No	☐N/A	3
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	4
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	5
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	6
Sufficient Volume:	☑Yes	☐No	☐N/A	7
Correct Containers Used:	☑Yes	☐No	☐N/A	8
Filtered vol. Rec. for Diss. tests ☐Yes ☐No		☑N/A		9
Sample Labels match COC:	☑Yes	☐No	☐N/A	10
All containers received within manafacture's precautionary and/or expiration dates.	☑Yes	☐No	☐N/A	11
All containers needing preservation have been checked (except VOA, coliform, & O&G).	☑Yes	☐No	☐N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Samples checked for dechlorination:	☐Yes	☑No	☐N/A	14
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	14
Trip Blank Present: ☐Yes		☑No	☐N/A	16
Trip Blank Custody Seals Present ☐Yes		☑No	☐N/A	17
Pace Trip Blank Lot # (If purchased): N/A				18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

November 06, 2009

Keith Roberts
Olin Enviromental Management
Charleston Plant
1186 Lower river Road
Charleston, TN 37310

RE: Project 20101459
Project ID: OLIN MCINTOSH OU2/6107090035

Dear Keith Roberts:

Enclosed are the analytical results for sample(s) received by the laboratory on November 03, 2009. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerly,

Cindy Olavesen

Cindy Olavesen
cindy.olavesen@pacelabs.com

REPORT OF LABORATORY ANALYSIS

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Laboratory Certifications

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20101459

Client: Olin Enviromental Management

Project ID: OLIN MCINTOSH OU2/6107090035

U.S. Dept. of Agriculture Foreign Soil Import S-47270

Pennsylviania Dept. of Env Protection (NELAC) 68-04202

Texas Commission on Env. Quality (NELAC) T104704405-08-TX

Kansas Department of Health and Environment (NELAC) E-10266

Florida Department of Health (NELAC) E87595

Louisiana Dept. of Health and Hospitals (NELAC) LA080013

Louisiana Dept. of Environmental Quality (NELAC/LELAP) 02006

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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Sample Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20101459

Client: Olin Enviromental Management

Project ID: OLIN MCINTOSH OU2/6107090035

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
OU2B-SW-TBR-1-110209	20738425	Water	02-Nov-09 13:50	03-Nov-09 10:00
OU2B-SW-GATE-1-110209	20738428	Water	02-Nov-09 15:45	03-Nov-09 10:00

Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20101459

Narrative detail for project management:

Do not filter samples per Heidi Fogel.

Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20101459

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

All MS/MSD recoveries or duplicate RPDs were within QC limits.

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20101459

Analytical Method	Batch	Sample used for QC
SM 2540C	128871	Project sample OU2B-SW-TBR-1-110209
SM 2540D	128872	Batch sample from another client

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SW-TBR-1-110209
Project: 20101459
Project ID: OLIN MCINTOSH OU2/6107090035
Site: None
Lab ID: 20738425
Matrix: Water
%Moisture: n/a
Description: None
Collected: 02-Nov-09
Received: 03-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Dissolved Solids	SM 2540C	128871	1	108.		mg/L	4.00	04-Nov-09	04-Nov-09 10:41 SMS2	
Total Suspended Solids	SM 2540D	128872	1	65.0		mg/L	4.00	04-Nov-09	04-Nov-09 10:50 SMS2	

2 parameter(s) reported

Inorganics 11/6/2009 16:19:18

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SW-GATE-1-110209
Project: 20101459
Project ID: OLIN MCINTOSH OU2/6107090035
Site: None
Lab ID: 20738428
Matrix: Water
%Moisture: n/a
Description: None
Collected: 02-Nov-09
Received: 03-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Dissolved Solids	SM 2540C	128871	1	652.		mg/L	4.00	04-Nov-09	04-Nov-09 10:41 SMS2	
Total Suspended Solids	SM 2540D	128872	1	9.50		mg/L	4.00	04-Nov-09	04-Nov-09 10:51 SMS2	

2 parameter(s) reported

Inorganics 11/6/2009 16:19:18

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Inorganics Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20101459

Parameter	Batch	Blank	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Total Dissolved Solids	128871	< 4.00	mg/L	100.	107.	107							5	80-120		20	
Total Suspended Solid	128872	< 4.00	mg/L	100.	100.	100							12	80-120		20	

11/6/2009 16:19:20

*** denotes recovery outside of QC limits.**
ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Definitions/Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20101459

Value	Description
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
U	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
B	This analyte was detected in the method blank.
E	The sample concentration is above the linear calibrated range of the analysis.
ND	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL	The adjusted method detection limit.
LCS(D)	Laboratory Control Sample (Duplicate).
MS(D)	Matrix Spike (Duplicate).
DUP	Sample Duplicate.
RPD	Relative Percent Difference.

20101459 20-OLIN ENV

Pace

F-CUSTODY / Analytical Request Document

tody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

20101459

Page: 1 of 1

1191745

Section A Required Client Information:

Company: MACTEC
Address: 3200 Town Pt Dr NW Ste 100 Kennesaw GA
Email To: cdraper@mactec.com
Phone: 770423400 Fax: 770423486
Requested Due Date/TAT:

Required Project Information:

Report To: kdroberts@olin.com
Copy To:
Purchase Order No.: OEM C0016
Project Name: Olin McIntosh OU2
Project Number: 6107090035

Section C Invoice Information:

Attention: Dennis Turner
Company Name: Olin Corp
Address: 3855 N Ocoee St Suite 200 Cleveland, TN
Pace Quote Reference:
Pace Project Manager: Cindy Olavesen
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER CERCLA

Site Location STATE: AL

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): N Y

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N) TSS E300	TDS E300	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	OU2B-SW-TBR-1-110209	WT	G	~~MBR~~		11/2/09	1350		2									X	X		20738425
2	OU2B-SW-Gate-1-110209	WT	G			11/2/09	1545		2									X	X		428
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Filter dissolved samples	Melissa Rotten / MACTEC	11/2/09	1800							
upon receipt.	FedEx	11-3-09	1000	[illegible]	11-3-09	1000	2.1	X	X	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: MRottenberg
SIGNATURE of SAMPLER: Melissa Rotten
DATE Signed (MM/DD/YY): 11/02/09

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

20101459 20-OLIN ENV

Pace Analytical

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Sample Condi

Courier: ☐ Pace Courier ☐ Hackbarth ☑ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals Intact: ☑Yes ☐No

Therometer Used: ☑ Therm Fisher IR 1 ☐ Therm Fisher IR 2 ☐ Therm Fisher IR 3

Type of Ice: Wet Blue None

Samples on Ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and initials of person examining contents: 11-3-09

Temp must be measured from Temperature blank when present

				Comments:
Temperature Blank Present"?	☑Yes	☐No	☐N/A	1
Chain of Custody Present:	☑Yes	☐No	☐N/A	2
Chain of Custody Complete:	☑Yes	☐No	☐N/A	3
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	4
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	5
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	6
Sufficient Volume:	☑Yes	☐No	☐N/A	7
Correct Containers Used:	☑Yes	☐No	☐N/A	8
Filtered vol. Rec. for Diss. tests	☐Yes	☐No	☑N/A	9
Sample Labels match COC:	☑Yes	☑No	☐N/A	10
All containers received within manafacture's precautionary and/or expiration dates.	☑Yes	☐No	☐N/A	11
All containers needing preservation have been checked (except VOA, coliform, & O&G).	☐Yes	☐No	☑N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	14
Trip Blank Present:	☐Yes	☐No	☑N/A	16
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	17
Pace Trip Blank Lot # (if purchased): N/A				18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

ALLC003rev.05, 12Jun2009 - mod

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

December 18, 2009

Keith Roberts
Olin Enviromental Management
3855 North Ocoee Street
Suite 200
Cleveland, TN 37312

RE: Project 20101843
Project ID: OLIN MCINTOSH/6107090035

Dear Keith Roberts:

Enclosed are the analytical results for sample(s) received by the laboratory on November 12, 2009. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerly,

Cindy Olavesen

Cindy Olavesen
cindy.olavesen@pacelabs.com

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, execpt in full, without the written consent of Pace Analytical Services, Inc.

Project: 20101843

Client: Olin Enviromental Management

Project ID: OLIN MCINTOSH/6107090035

U.S. Dept. of Agriculture Foreign Soil Import S-47270
Pennsylviania Dept. of Env Protection (NELAC) 68-04202
Texas Commission on Env. Quality (NELAC) T104704405-08-TX
Kansas Department of Health and Environment (NELAC) E-10266
Florida Department of Health (NELAC) E87595
Louisiana Dept. of Health and Hospitals (NELAC) LA080013
Louisiana Dept. of Environmental Quality (NELAC/LELAP) 02006

40 Green Bay Certification IDs
40 California Certification #: 09268CA
40 Florida/NELAP Certification #: E87948
40 Illinois Certification #: 200050
40 Kentucky Certification #: 82
40 Kentucky Certification #: 83
40 Louisiana Certification #: 04168
40 Minnesota Certification #: 055-999-334
40 New York Certification #: 11887
40 New York Certification #: 11888
40 North Carolina Certification #: 503
40 North Dakota Certification #: R-150
40 South Carolina Certification #: 83006001
40 Wisconsin Certification #: 405132750
40 Wisconsin DATCP Certification #: 105-444

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Sample Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20101843

Client: Olin Enviromental Management

Project ID: OLIN MCINTOSH/6107090035

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
OU2B-SED-ST33-1109	20741147	Soil	11-Nov-09 10:22	12-Nov-09 10:00
OU2B-SED-ST31-1109	20741148	Soil	11-Nov-09 11:30	12-Nov-09 10:00
OU2B-SED-ST15-1109	20741149	Soil	11-Nov-09 12:15	12-Nov-09 10:00
OU2B-SED-ST13-1109	20741150	Soil	11-Nov-09 13:27	12-Nov-09 10:00
OU2B-SED-ST29-1109	20741151	Soil	11-Nov-09 13:53	12-Nov-09 10:00
OU2B-SED-ST24-1109	20741152	Soil	11-Nov-09 14:47	12-Nov-09 10:00
OU2B-SED-ST23-1109	20741153	Soil	11-Nov-09 15:05	12-Nov-09 10:00
OU2B-SED-ST30-1109	20741154	Soil	11-Nov-09 15:12	12-Nov-09 10:00
OU2B-SED-ST32-1109	20741155	Soil	11-Nov-09 10:45	12-Nov-09 10:00
OU2B-SED-ST14-1109	20741156	Soil	11-Nov-09 13:40	12-Nov-09 10:00
OU2B-SED-ST17-1109	20741157	Soil	11-Nov-09 15:34	12-Nov-09 10:00

Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20101843

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

All MS/MSD recoveries or duplicate RPDs were within QC limits.

Project: 20101843

Analytical Method	Batch	Sample used for QC
EPA 7471	129457	Batch sample from another client
Dry Weight Moisture	129522	Batch sample from another client
Dry Weight Moisture	129527	Project sample OU2B-SED-ST15-1109
SM 2710F-Mod	129453	Project sample OU2B-SED-ST33-1109

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST33-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741147
Matrix: Soil
%Moisture: 81.6 Corrected
Description: AL
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Mercury	EPA 7471	129457	10	26.8	D1	mg/kg	5.26	13-Nov-09	16-Nov-09 19:43 KJR	

1 parameter(s) reported

Inorganics 12/18/2009 11:12:16

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST31-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741148
Matrix: Soil
%Moisture: 81.4 Corrected
Description: AL
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Mercury	EPA 7471	129457	10	21.8	D1	mg/kg	5.05	13-Nov-09	16-Nov-09 19:44 KJR	

1 parameter(s) reported

Inorganics 12/18/2009 11:12:16

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST15-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741149
Matrix: Soil
%Moisture: 87.6 Corrected
Description: AL
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Mercury	EPA 7471	129457	10	16.2	D1	mg/kg	8.04	13-Nov-09	16-Nov-09 19:46 KJR	

1 parameter(s) reported

Inorganics 12/18/2009 11:12:16

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST13-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741150
Matrix: Soil
%Moisture: 87.5 Corrected
Description: AL
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Mercury	EPA 7471	129457	10	14.9	D1	mg/kg	7.27	13-Nov-09	16-Nov-09 19:48 KJR	

1 parameter(s) reported

Inorganics 12/18/2009 11:12:16

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST29-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741151
Matrix: Soil
%Moisture: 88.4 Corrected
Description: AL
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Mercury	EPA 7471	129457	10	15.6	D1	mg/kg	8.36	13-Nov-09	16-Nov-09 19:50 KJR	

1 parameter(s) reported

Inorganics 12/18/2009 11:12:16

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST24-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741152
Matrix: Soil
%Moisture: 87.5 Corrected
Description: AL
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Mercury	EPA 7471	129457	10	ND	D1	mg/kg	7.72	13-Nov-09	16-Nov-09 19:51 KJR	

1 parameter(s) reported

Inorganics 12/18/2009 11:12:16

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST23-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741153
Matrix: Soil
%Moisture: 85.5 Corrected
Description: AL
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Mercury	EPA 7471	129457	10	ND	D1	mg/kg	6.88	13-Nov-09	16-Nov-09 19:53 KJR	

1 parameter(s) reported

Inorganics 12/18/2009 11:12:16

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST30-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741154
Matrix: Soil
%Moisture: 87 Corrected
Description: AL
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Mercury	EPA 7471	129457	10	16.7	D1	mg/kg	6.97	13-Nov-09	16-Nov-09 19:55 KJR	

1 parameter(s) reported

Inorganics 12/18/2009 11:12:16

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST32-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741155
Matrix: Soil
%Moisture: 86.6 Corrected
Description: AL
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Mercury	EPA 7471	129457	10	ND	D1	mg/kg	6.98	13-Nov-09	16-Nov-09 19:57 KJR	

1 parameter(s) reported

Inorganics 12/18/2009 11:12:16

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST14-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741156
Matrix: Soil
%Moisture: 84.8 Corrected
Description: AL
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Mercury	EPA 7471	129457	10	23.2	D1	mg/kg	5.82	13-Nov-09	16-Nov-09 19:58 KJR	

1 parameter(s) reported

Inorganics 12/18/2009 11:12:16

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST17-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741157
Matrix: Soil
%Moisture: 86 Corrected
Description: AL
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Mercury	EPA 7471	129457	10	ND	D1	mg/kg	6.30	13-Nov-09	16-Nov-09 20:03 KJR	

1 parameter(s) reported

Inorganics 12/18/2009 11:12:16

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST33-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741147
Matrix: Soil
%Moisture: 81.6 Not Corrected
Description: AL
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Clay	ASTM D422	131264	1	94.2		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Density	SM 2710F-Mod	129453	1	0.992		g/cm3	0.500	13-Nov-09	13-Nov-09 12:20 SMS2	
Gravel	ASTM D422	131264	1	ND		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Mean Total Organic Carb	EPA 9060 Mod	37667	1	22400		mg/kg	6450	20-Nov-09	20-Nov-09 09:01 DJR40	
Sand	ASTM D422	131264	1	0.400		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Silt	ASTM D422	131264	1	5.50		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	

6 parameter(s) reported

Inorganics 12/18/2009 11:12:17

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST31-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741148
Matrix: Soil
%Moisture: 81.4 Not Corrected
Description: AL
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Clay	ASTM D422	131264	1	76.9		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Density	SM 2710F-Mod	129453	1	0.997		g/cm3	0.500	13-Nov-09	13-Nov-09 12:20 SMS2	
Gravel	ASTM D422	131264	1	ND		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Mean Total Organic Carb	EPA 9060 Mod	37667	1	23200		mg/kg	4440	20-Nov-09	20-Nov-09 09:45 DJR40	
Sand	ASTM D422	131264	1	0.600		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Silt	ASTM D422	131264	1	22.5		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	

6 parameter(s) reported

Inorganics 12/18/2009 11:12:17

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST15-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741149
Matrix: Soil
%Moisture: 87.6 Not Corrected
Description: AL
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Clay	ASTM D422	131264	1	97.7		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Density	SM 2710F-Mod	129453	1	1.00		g/cm3	0.500	13-Nov-09	13-Nov-09 12:20 SMS2	
Gravel	ASTM D422	131264	1	ND		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Mean Total Organic Carb	EPA 9060 Mod	37667	1	25200		mg/kg	4650	20-Nov-09	20-Nov-09 09:57 DJR40	
Sand	ASTM D422	131264	1	1.40		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Silt	ASTM D422	131264	1	0.900		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	

6 parameter(s) reported

Inorganics 12/18/2009 11:12:17

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST13-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741150
Matrix: Soil
%Moisture: 87.5 Not Corrected
Description: AL
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Clay	ASTM D422	131264	1	81.2		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Density	SM 2710F-Mod	129453	1	1.01		g/cm3	0.500	13-Nov-09	13-Nov-09 12:20 SMS2	
Gravel	ASTM D422	131264	1	ND		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Mean Total Organic Carb	EPA 9060 Mod	37667	1	30700		mg/kg	5130	20-Nov-09	20-Nov-09 10:08 DJR40	
Sand	ASTM D422	131264	1	1.40		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Silt	ASTM D422	131264	1	17.5		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	

6 parameter(s) reported

Inorganics 12/18/2009 11:12:18

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST29-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741151
Matrix: Soil
%Moisture: 88.4 Not Corrected
Description: AL
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Clay	ASTM D422	131264	1	77.8		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Density	SM 2710F-Mod	129453	1	1.00		g/cm3	0.500	13-Nov-09	13-Nov-09 12:20 SMS2	
Gravel	ASTM D422	131264	1	ND		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Mean Total Organic Carb	EPA 9060 Mod	37667	1	34600		mg/kg	4760	20-Nov-09	20-Nov-09 10:19 DJR40	
Sand	ASTM D422	131264	1	2.10		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Silt	ASTM D422	131264	1	20.1		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	

6 parameter(s) reported

Inorganics 12/18/2009 11:12:18

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST24-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741152
Matrix: Soil
%Moisture: 87.5 Not Corrected
Description: AL
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Clay	ASTM D422	131264	1	86.8		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Density	SM 2710F-Mod	129453	1	1.05		g/cm3	0.500	13-Nov-09	13-Nov-09 12:20 SMS2	
Gravel	ASTM D422	131264	1	ND		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Mean Total Organic Carb	EPA 9060 Mod	37667	1	34300		mg/kg	5260	20-Nov-09	20-Nov-09 11:01 DJR40	
Sand	ASTM D422	131264	1	2.10		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Silt	ASTM D422	131264	1	11.2		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	

6 parameter(s) reported

Inorganics 12/18/2009 11:12:18

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST23-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741153
Matrix: Soil
%Moisture: 85.5 Not Corrected
Description: AL
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Clay	ASTM D422	131264	1	72.9		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Density	SM 2710F-Mod	129453	1	1.01		g/cm3	0.500	13-Nov-09	13-Nov-09 12:20 SMS2	
Gravel	ASTM D422	131264	1	ND		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Mean Total Organic Carb	EPA 9060 Mod	37667	1	34400		mg/kg	4880	20-Nov-09	20-Nov-09 11:19 DJR40	
Sand	ASTM D422	131264	1	2.40		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Silt	ASTM D422	131264	1	24.7		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	

6 parameter(s) reported

Inorganics 12/18/2009 11:12:18

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST30-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741154
Matrix: Soil
%Moisture: 87 Not Corrected
Description: AL
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Clay	ASTM D422	131264	1	78.1		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Density	SM 2710F-Mod	129453	1	1.01		g/cm3	0.500	13-Nov-09	13-Nov-09 12:20 SMS2	
Gravel	ASTM D422	131264	1	ND		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Mean Total Organic Carb	EPA 9060 Mod	37667	1	35000		mg/kg	4440	20-Nov-09	20-Nov-09 11:35 DJR40	
Sand	ASTM D422	131264	1	3.80		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	
Silt	ASTM D422	131264	1	18.1		%	0.0100	11-Dec-09	11-Dec-09 00:00 XXXX	

6 parameter(s) reported

Inorganics 12/18/2009 11:12:18

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: PACE ANALYTICAL SERVICES, INC.

Client ID: OU2B-SED-ST32-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: none
Lab ID: 20741155
Matrix: Soil
%Moisture: 0 not corrected
Description: AL
Collected: 11-Nov-09
Received: 18-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Mean Total Organic Carb	EPA 9060 Mod	37667	1	35700		mg/kg	4550	20-Nov-09	20-Nov-09 11:46 DJR40	

1 parameter(s) reported

Inorganics 12/18/2009 11:12:18

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MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: PACE ANALYTICAL SERVICES, INC.

Client ID: OU2B-SED-ST14-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: none
Lab ID: 20741156
Matrix: Soil
%Moisture: 0 not corrected
Description: AL
Collected: 11-Nov-09
Received: 18-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Mean Total Organic Carb	EPA 9060 Mod	37667	1	21100		mg/kg	4880	20-Nov-09	20-Nov-09 12:02 DJR40	

1 parameter(s) reported

Inorganics 12/18/2009 11:12:18

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: PACE ANALYTICAL SERVICES, INC.

Client ID: OU2B-SED-ST17-1109
Project: 20101843
Project ID: OLIN MCINTOSH/6107090035
Site: none
Lab ID: 20741157
Matrix: Soil
%Moisture: 0 not corrected
Description: AL
Collected: 11-Nov-09
Received: 18-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Mean Total Organic Carb	EPA 9060 Mod	37667	1	48800		mg/kg	8700	20-Nov-09	20-Nov-09 12:16 DJR40	

1 parameter(s) reported

Inorganics 12/18/2009 11:12:18

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Inorganics Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20101843

Parameter	Batch	Blank	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Mercury	129457	< 0.100	mg/kg	0.100	0.102	102	0.0968		0.0965	0.104	100	105	8	80-120	75-125	20	

12/18/2009 11:12:19

*** denotes recovery outside of QC limits.**
ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Inorganics Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20101843

Parameter	Batch	Blank	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Density	129453		g/cm3	1.00	0.998	100							0	97-103		20	
Percent Moisture	129522	< 1.00	%														
Percent Moisture	129527	< 1.00	%														
Mean Total Organic C	37667	< 250.	mg/kg	1000	1010	101	13800		34700	40000	89	123	14	80-120	50-150	30	
Mean Total Organic C	37667		mg/kg				506.		1660	1790	62	87	7		50-150	30	

12/18/2009 11:12:20

*** denotes recovery outside of QC limits.**
ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Definitions/Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20101843

Value	Description
D1	The analysis was performed at a dilution due to the high analyte concentration.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
U	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
B	This analyte was detected in the method blank.
E	The sample concentration is above the linear calibrated range of the analysis.
ND	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL	The adjusted method detection limit.
LCS(D)	Laboratory Control Sample (Duplicate).
MS(D)	Matrix Spike (Duplicate).
DUP	Sample Duplicate.
RPD	Relative Percent Difference.

20101843 20-OLIN ENV

Pace Analytical®
www.pacelabs.com

Two Coolers

20101843

Page: 1 of 1

1191746

Section A
Required Client Information:

Company: MACTEC
Address: 3200 TOWN POINT DR
KENNESAW GA 30144
Email To: CEDRAPER@MACTEC.COM
Phone: 770 421 3400 Fax: 770 421 3486
Requested Due Date/TAT: Standard

Section B
Required Project Information:

Report To: KdRoberts@Olin.com
Copy To: HEFOGELL@Mactec.com
Purchase Order No.: DEM C 0016
Project Name: Olin McIntosh
Project Number: 16107090035

Invoice Information:

Attention: Dennis Turner
Company Name: Olin Corporation
Address: 3855 N. Ocoee St Suite 100 Cleveland TN
Pace Quote Reference:
Pace Project Manager: Cindy Olavesen
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA X OTHER CERCLA

Site Location STATE: AL

Section D
Required Client Information

Matrix Codes
MATRIX / CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Tissue TS
Other OT
OT-Sediment

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Mercury, total 7471	% Moisture D2216	Density SM2710F-Mod	TSS EPA 160.2	IDC EPA 9060M	Grain Size						Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	OU2B-SED-ST33-1109	OT	C	11/11/09		11/11/09	1022		6	X									X	X	X	X	X	X							20741147
2	OU2B-SED-ST32-1109					11/11/09	1045		2	X									X				X								155
3	OU2B-SED-ST31-1109					11/11/09	1130		6	X									X	X	X	X	X	X							148
~~4~~	~~OU2B~~																														~~145~~
5	OU2B-SED-ST15-1109					11/11/09	1215		6	X									X	X	X	X	X	X							149
6	OU2B-SED-ST13-1109					11/11/09	1327		6	X									X	X	X	X	X	X							150
7	OU2B-SED-ST14-1109					11/11/09	1340		2	X									X				X								156
8	OU2B-SED-ST29-1109					11/11/09	1353		6	X									X	X	X	X	X	X							151
9	OU2B-SED-ST24-1109					11/11/09	1447		6	X									X	X	X	X	X	X							152
10	OU2B-SED-ST23-1109					11/11/09	1505		6	X									X	X	X	X	X	X							153
11	OU2B-SED-ST30-1109					11/11/09	1512		6	X									X	X	X	X	X	X	~~Ass~~						154
12	OU2B-SED-ST17-1109					11/11/09	1534		2	X									X				X								157

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Melu Rotenberg / MACTEC	11/11/09	1630				2.0			
	Fed Ex	11-12-09	1000	M J Mull	11-12-09	1000	2.1	X	X	X

ORIGINAL

SAMPLER NAME AND SIGNATURE: M Rotenberg Melu Rotenberg
PRINT Name of SAMPLER: A Stell
SIGNATURE of SAMPLER: Amy Stell
DATE Signed (MM/DD/YY): 11/11/09

Temp In °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

20101843 20-OLIN ENV

Pace Analytical

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Sample Cond

Courier: ☐ Pace Courier ☐ Hackbarth ☑ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals Intact: ☑Yes ☐No

Therometer Used: ☑ Therm Fisher IR 1 ☐ Therm Fisher IR 2 ☐ Therm Fisher IR 3

Type of Ice: (Wet) Blue None

Samples on Ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and initials of person examining contents: 11-12-09

Temp must be measured from Temperature blank when present

		Comments:
Temperature Blank Present"?	☑Yes ☐No ☐N/A	1
Chain of Custody Present:	☑Yes ☐No ☐N/A	2
Chain of Custody Complete:	☑Yes ☐No ☐N/A	3
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	4
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	5
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	6
Sufficient Volume:	☑Yes ☐No ☐N/A	7
Correct Containers Used:	☑Yes ☐No ☐N/A	8
Filtered vol. Rec. for Diss. tests	☐Yes ☐No ☑N/A	9
Sample Labels match COC:	☑Yes ☐No ☐N/A	10
All containers received within manafacture's precautionary and/or expiration dates.	☑Yes ☐No ☐N/A	11
All containers needing preservation have been checked (except VOA, coliform, & O&G).	☐Yes ☐No ☑N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14
Trip Blank Present:	☐Yes ☐No ☑N/A	16
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	17
Pace Trip Blank Lot # (if purchased): N/A		18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

ALLC003rev.05, 12Jun2009 - mod

TRANSMITTAL

AAI

Ardaman & Associates, Inc.

To: Pace Analytical
1000 Riverbend, Suite F
St. Rose, LA 70087

Fax: 504-469-0555

Attention: Karen Brown

Date: December 14, 2009
Job No.: 09-L2623
Project: 20101843

From: Megan Bourgeois, E.I.

COPIES	DESCRIPTION
1	Particle Size Analysis
1	Chain of Custody

THESE ARE TRANSMITTED:

■ **FOR YOUR USE** ☐ **FOR REVIEW & COMMENT** ■ **AS REQUESTED**

REMARKS:

Reviewed By:

Megan Bourgeois

Megan Bourgeois, E.I.

Approved By:

Jason Manning, P.E.
Branch Manager

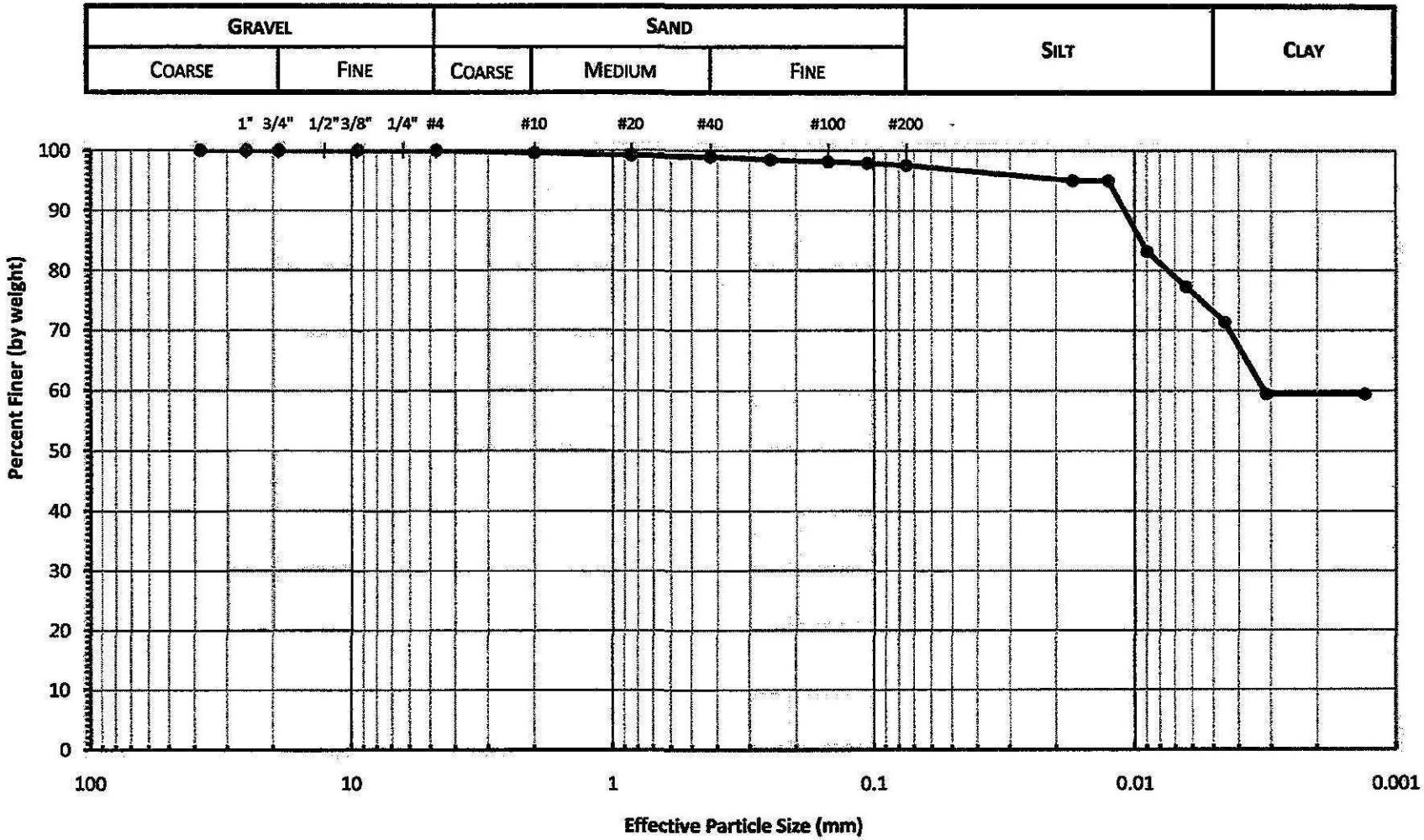
AASHTO Accredited Laboratory
LELAP Certificate No. 02052

316 HIGHLANDIA DRIVE
BATON ROUGE, LA 70810
PHONE: (225) 752-4790
FAX: (225) 752-4878

2074153

Client: PACE
Project: 20101843 (PACE)
AAI Project No.09-L2623

PARTICLE SIZE ANALYSIS
(ASTM D422)



Sample Identification		Visual Identification	% Gravel	% Sand	% Silt	% Clay
Boring	Depth (ft)					
ST23		Dark gray silty clay w/ odor & peat	0.0	2.4	24.7	72.9

042B-SED-ST23-1109

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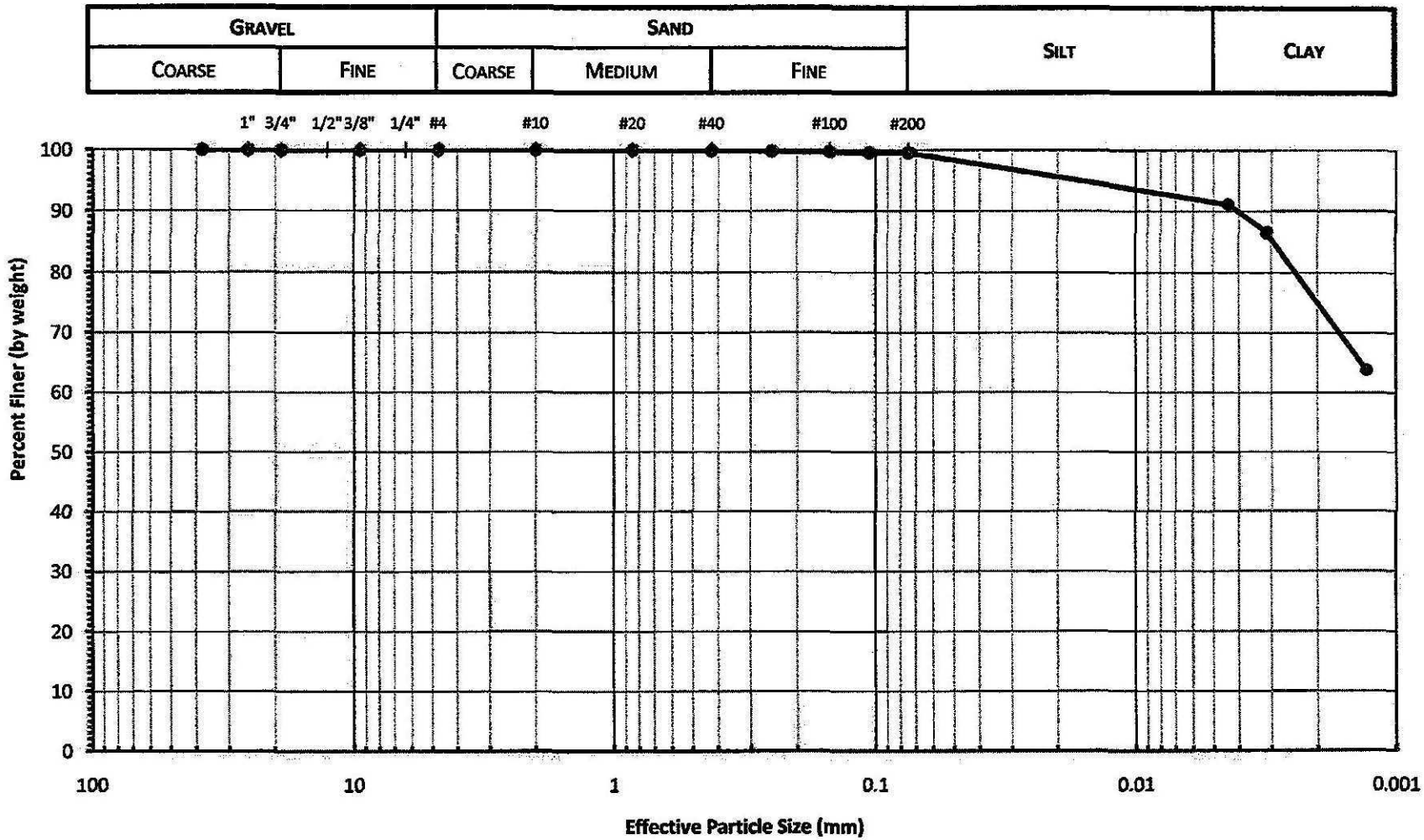
USACE Validated

316 Highlandia Drive
Baton Rouge, LA 70810
225-752-4790 (phone)
225-752-4878 (fax)

Client: PACE
Project: 20101843 (PACE)
AAI Project No.09-L2623

PARTICLE SIZE ANALYSIS
(ASTM D422)

20741147



Sample Identification		Visual Identification	% Gravel	% Sand	% Silt	% Clay
Boring	Depth (ft)					
ST33		Dark gray silty clay w/ odor	0.0	0.4	5.5	94.2

042B-SED-ST33 1109

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225-752-4790 (phone)
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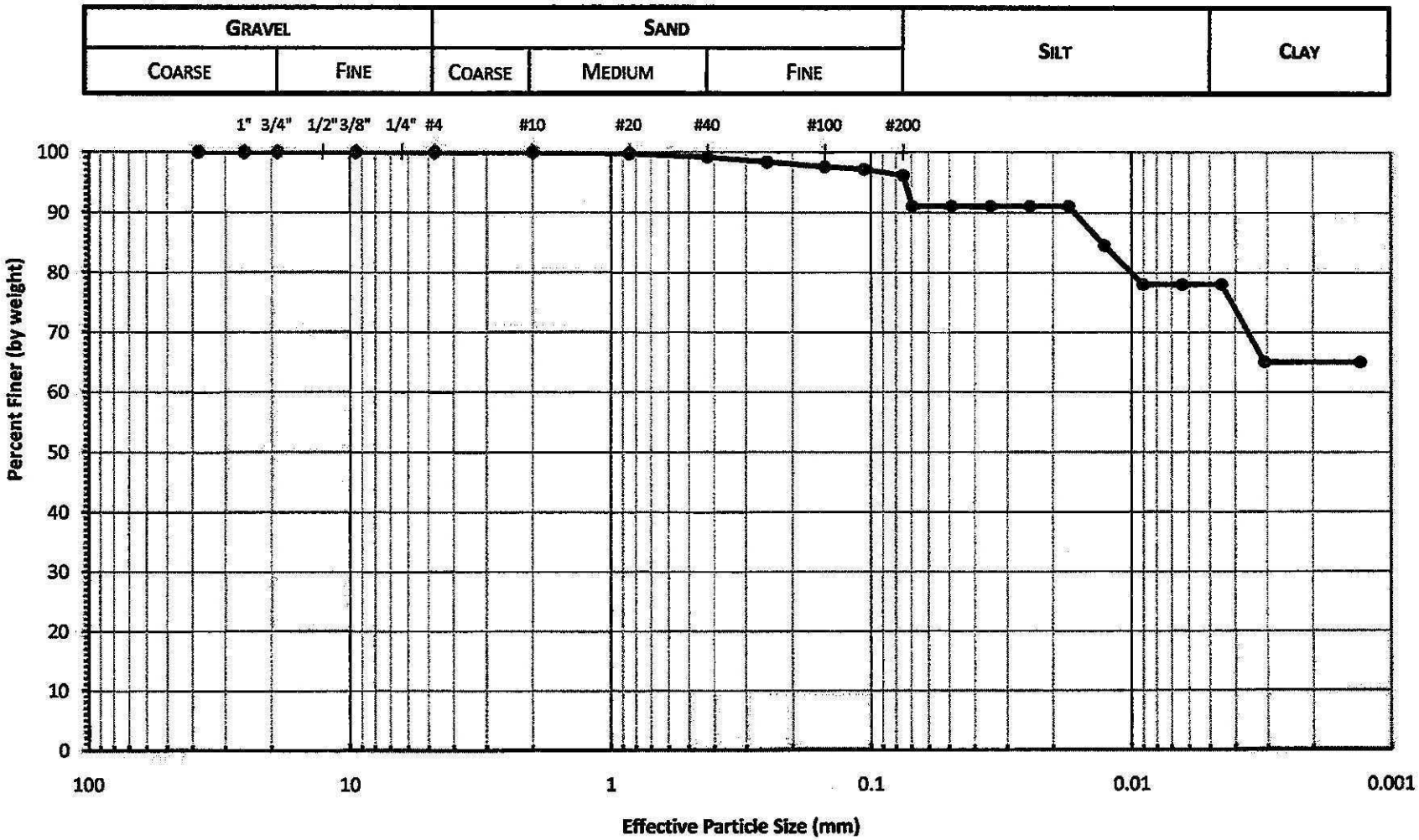
Client: PACE
Project: 20101843 (PACE)
AAI Project No.09-L2623

PARTICLE SIZE ANALYSIS
(ASTM D422)

2074154



Sample Identification		Visual Identification	% Gravel	% Sand	% Silt	% Clay
Boring	Depth (ft)					
ST30		Dark gray silty clay w/ odor & peat	0.0	3.8	18.1	78.1

042B-SED-ST30-1109

Ardaman & Associates, Inc.

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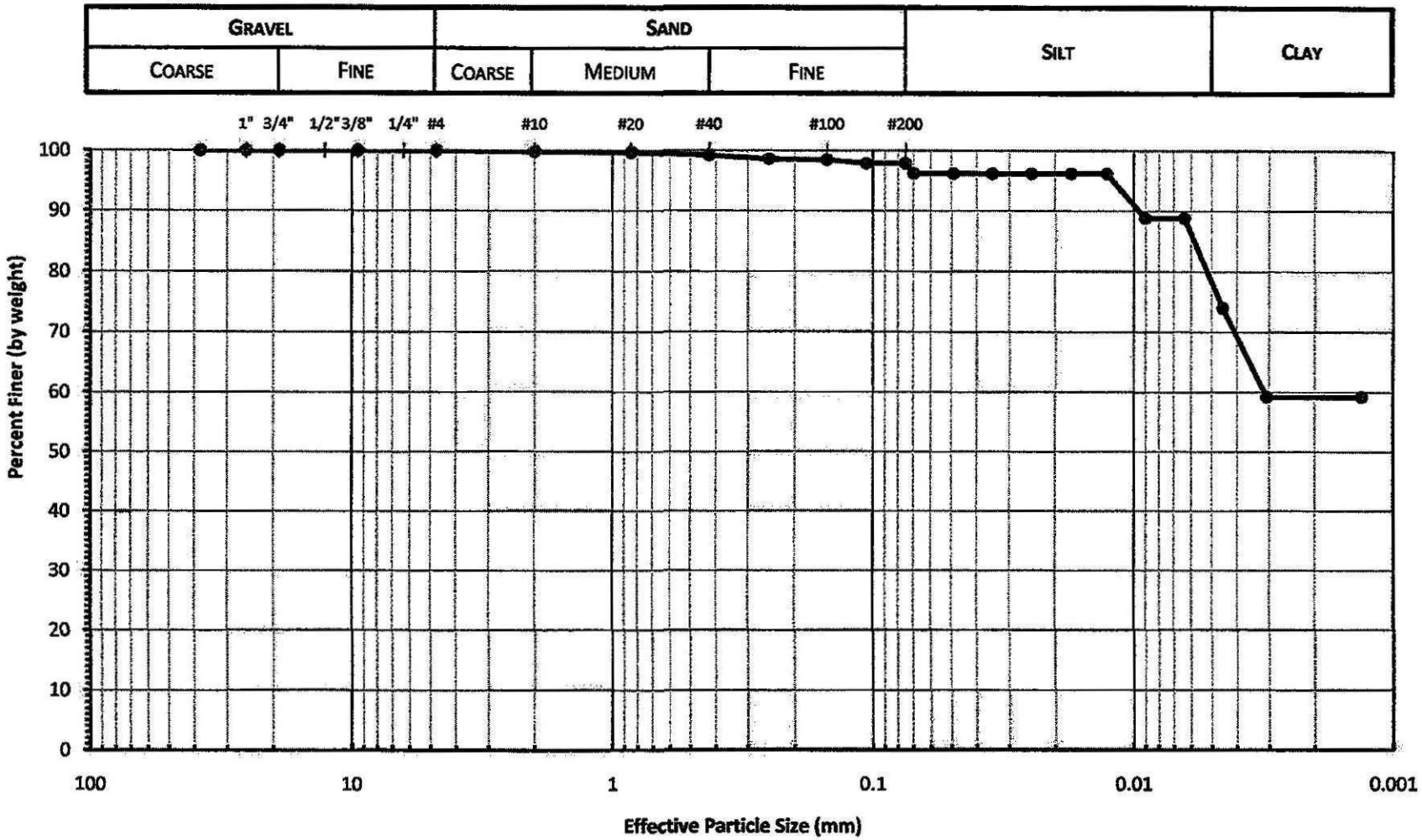
316 Highlandia Drive
Baton Rouge, LA 70810
225-752-4790 (phone)
225-752-4878 (fax)

Client: PACE
Project: 20101843 (PACE)
AAI Project No.09-L2623

PARTICLE SIZE ANALYSIS
(ASTM D422)

20741151



SAMPLE IDENTIFICATION		VISUAL IDENTIFICATION	% GRAVEL	% SAND	% SILT	% CLAY
BORING	DEPTH (FT)					
ST29	·	Dark gray silty clay w/ odor & peat	0.0	2.1	20.1	77.8

042B-SED-ST29-1109

Ardaman & Associates, Inc.

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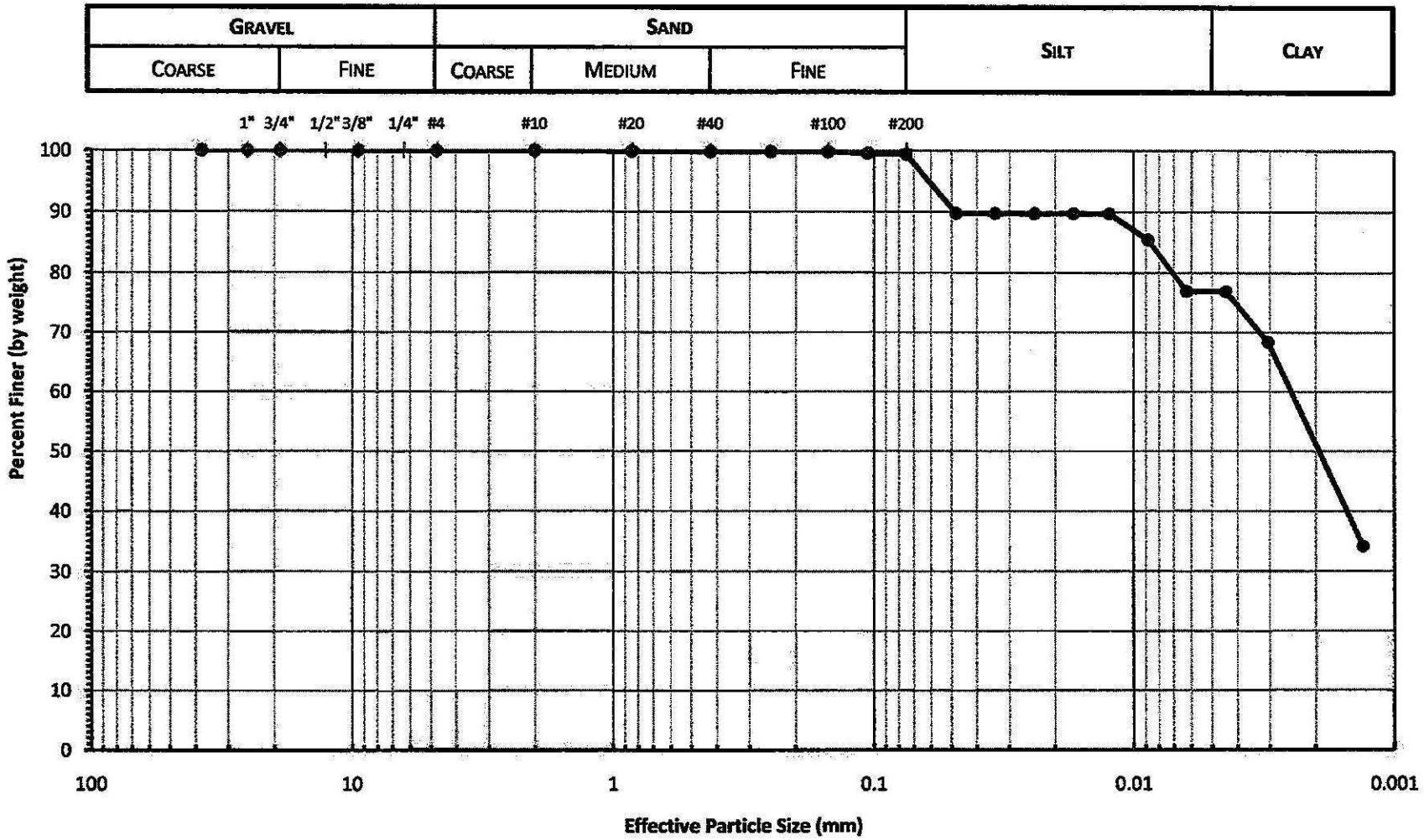
USACE Validated

316 Highlandia Drive
Baton Rouge, LA 70810
225-752-4790 (phone)
225-752-4878 (fax)

Client: PACE
Project: 20101843 (PACE)
AAI Project No.09-L2623

PARTICLE SIZE ANALYSIS
(ASTM D422)

20741148



SAMPLE IDENTIFICATION		VISUAL IDENTIFICATION	% GRAVEL	% SAND	% SILT	% CLAY
BORING	DEPTH (FT)					
ST31		Dark gray silty clay w/ odor	0.0	0.6	22.5	76.9

OU2B-SED-ST31-1109

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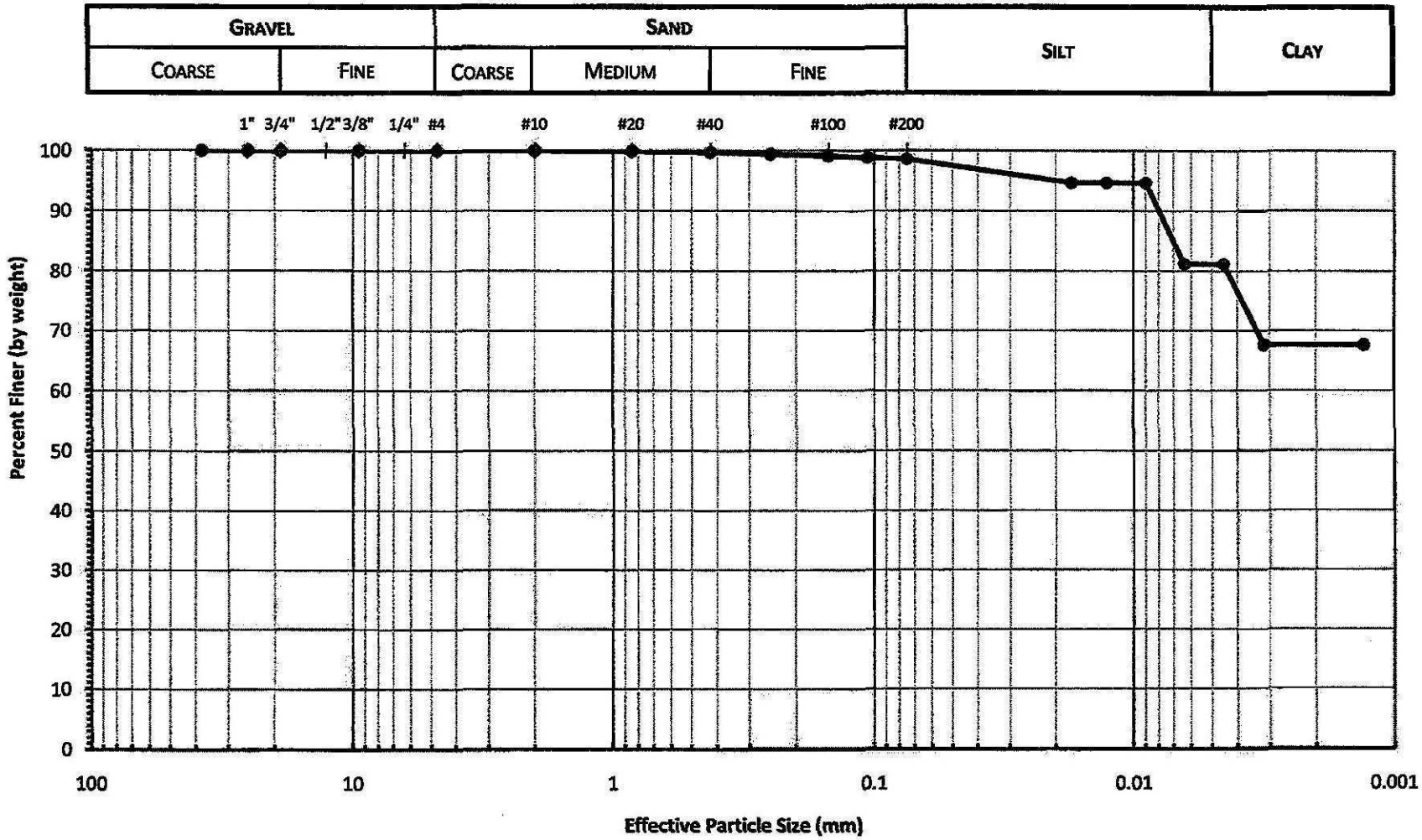
316 Highlandia Drive
Baton Rouge, LA 70810
225-752-4790 (phone)
225-752-4878 (fax)

Client: PACE
Project: 20101843 (PACE)
AAI Project No.09-L2623

PARTICLE SIZE ANALYSIS
(ASTM D422)

20741150



Sample Identification		Visual Identification	% Gravel	% Sand	% Silt	% Clay
Boring	Depth (ft)					
ST13		Dark gray silty clay w/ odor & peat	0.0	1.4	17.5	81.2

OU2B-SED-ST13-1109

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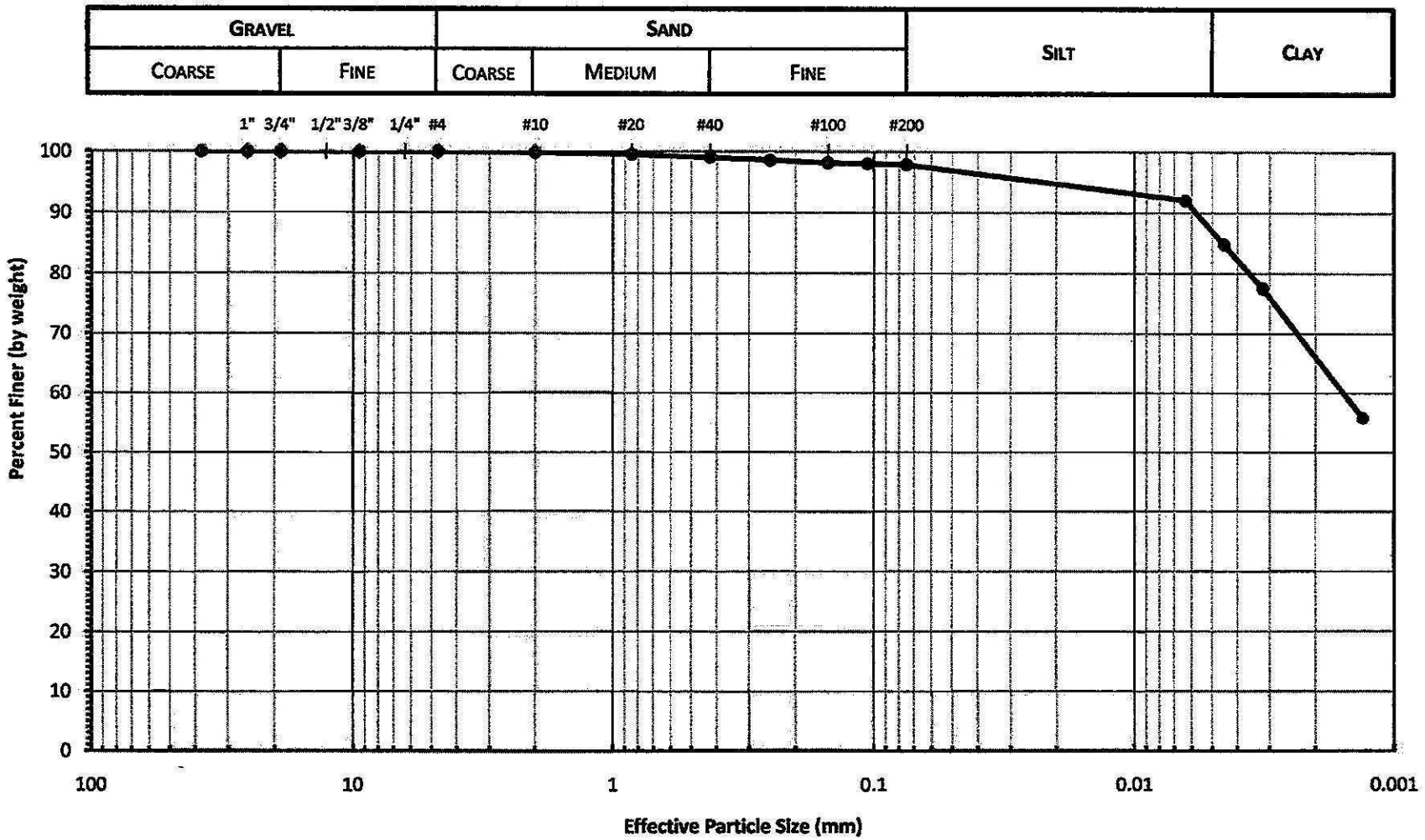
Baton Rouge, LA 70810
225-752-4790 (phone)
225-752-4878 (fax)

Client: PACE
Project: 20101843 (PACE)
AAI Project No.09-L2623

PARTICLE SIZE ANALYSIS
(ASTM D422)

20741152



Sample Identification		Visual Identification	% Gravel	% Sand	% Silt	% Clay
Boring	Depth (ft)					
ST24		Dark gray silty clay w/ odor & peat	0.0	2.1	11.2	86.8

042B-SED-ST24-1109

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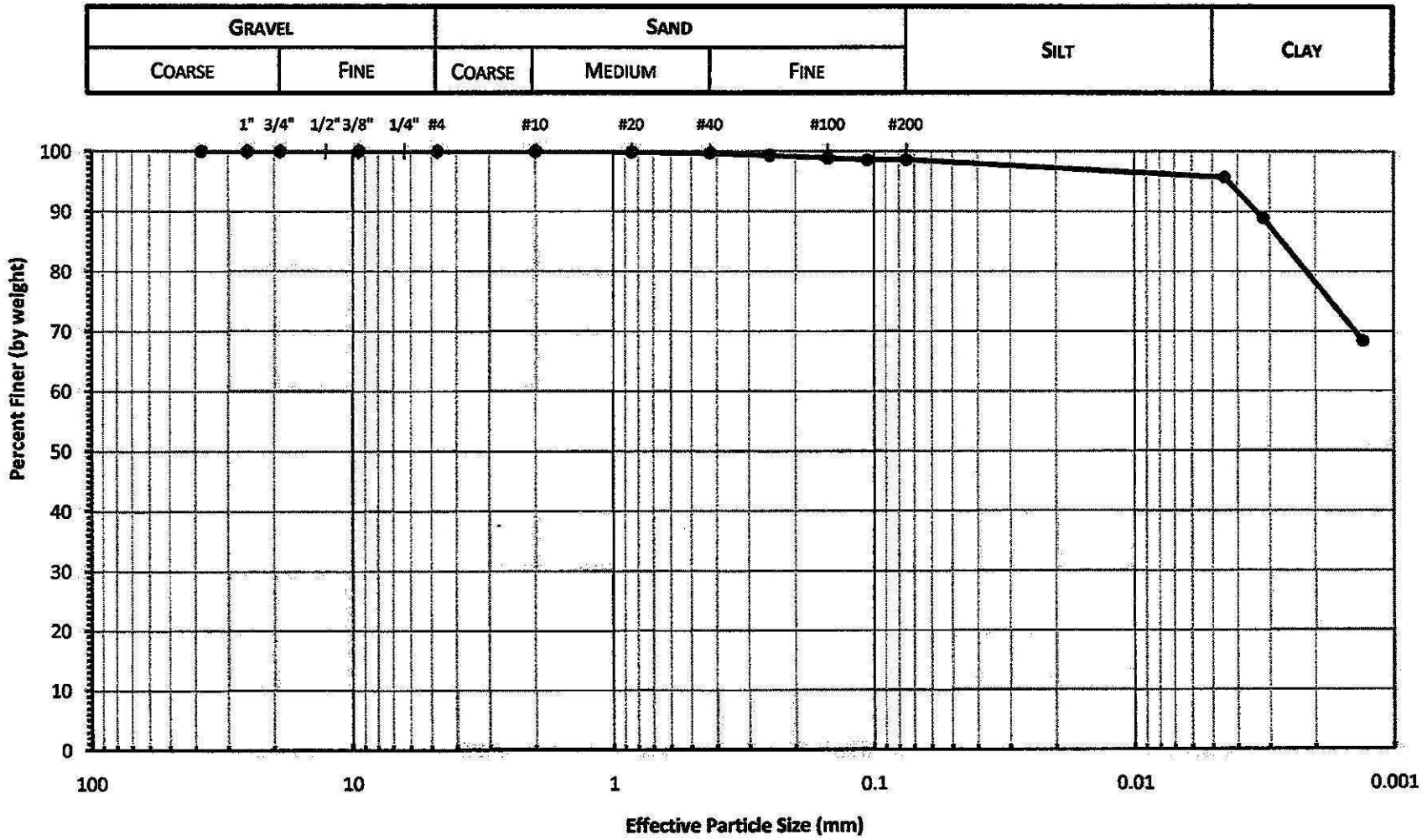
316 Highlandia Drive
Baton Rouge, LA 70810
225-752-4790 (phone)
225-752-4878 (fax)

Client: PACE
Project: 20101843 (PACE)
AAI Project No.09-L2623

PARTICLE SIZE ANALYSIS
(ASTM D422)

20741149



SAMPLE IDENTIFICATION		VISUAL IDENTIFICATION	% GRAVEL	% SAND	% SILT	% CLAY
BORING	DEPTH (FT)					
ST15		Dark gray silty clay w/ odor & peat	0.0	1.4	0.9	97.7

OU2B-SED-ST15-1109

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Baton Rouge, LA 70810
225-752-4790 (phone)
225-752-4878 (fax)

Pace Analytical™
www.pacelabs.com

SUBCONTRACTING CHAIN-OF-CUSTODY

09L2623

Pace Analytical Services, Inc.
1000 Riverbend Blvd., Suite F
St. Rose, LA 70087
Phone: 504.469.0333
Fax: 504.469.0555

Due Date: 11-26-09 Freight Carrier: Pace Custody Seals: Intact / Broken / Missing

Subcontractor: Andaman Airbill #: _____ Samples: Intact / Broken / Missing

Contact: _____ EPN #: 20101843 Cooler Temperature (°C): _____

PACE SAMPLE ID	CLIENT SAMPLE ID	SAMPLE DATE/TIME	MATRIX	SAMPLE #	ANALYTE/ METHOD	SAMPLE COMMENTS
20741147	042B-SED-ST33-1109	11-11-09 1022	SL	1		Grain Size
20741148	042B-SED-ST31-1109	11-11-09 1130	SL	1		
20741149	042B-SED-ST15-1109	11-11-09 1215	SL	1		
20741150	042B-SED-ST13-1109	11-11-09 1327	SL	1		
20741151	042B-SED-ST29-1109	11-11-09 1353	SL	1		
20741152	042B-SED-ST24-1109	11-11-09 1447	SL	1		
20741153	042B-SED-ST23-1109	11-11-09 1505	SL	1		
20741154	042B-SED-ST30-1109	11-11-09 1512	SL	1		✓

Relinquished by:	Date/Time	Received by:	Project Comments/Remarks:
Pace	11-17-09 1700	11/19/09	
Relinquished by:	Date/Time	Received by:	
Relinquished by:	Date/Time	Received for subcontractor by:	

REPORT RESULTS TO THE ADDRESS ABOVE TO THE ATTENTION OF CINDY OLAVESEN. If results cannot be delivered by the above due date, please contact Cindy Olavesen @ 504-305-3626 or e-mail cindy.olavesen@pacelabs.com.

PO # _____

FNO-SM-003:1

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

November 13, 2009

Keith Roberts
Olin Enviromental Management
Charleston Plant
1186 Lower river Road
Charleston, TN 37310

RE: Project 20101844
Project ID: OLIN MCINTOSH/6107090035

Dear Keith Roberts:

Enclosed are the analytical results for sample(s) received by the laboratory on November 12, 2009. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerly,

Cindy Olavesen

Cindy Olavesen
cindy.olavesen@pacelabs.com

REPORT OF LABORATORY ANALYSIS

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Laboratory Certifications

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20101844

Client: Olin Enviromental Management

Project ID: OLIN MCINTOSH/6107090035

U.S. Dept. of Agriculture Foreign Soil Import S-47270

Pennsylviania Dept. of Env Protection (NELAC) 68-04202

Texas Commission on Env. Quality (NELAC) T104704405-08-TX

Kansas Department of Health and Environment (NELAC) E-10266

Florida Department of Health (NELAC) E87595

Louisiana Dept. of Health and Hospitals (NELAC) LA080013

Louisiana Dept. of Environmental Quality (NELAC/LELAP) 02006

REPORT OF LABORATORY ANALYSIS

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the written consent of Pace Analytical Services, Inc.

Sample Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20101844

Client: Olin Enviromental Management

Project ID: OLIN MCINTOSH/6107090035

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
OU2B-SED-ST33-1109	20741158	Water	11-Nov-09 10:22	12-Nov-09 10:00
OU2B-SED-ST31-1109	20741159	Water	11-Nov-09 11:30	12-Nov-09 10:00
OU2B-SED-ST15-1109	20741160	Water	11-Nov-09 12:15	12-Nov-09 10:00
OU2B-SED-ST13-1109	20741161	Water	11-Nov-09 13:27	12-Nov-09 10:00
OU2B-SED-ST29-1109	20741162	Water	11-Nov-09 13:53	12-Nov-09 10:00
OU2B-SED-ST24-1109	20741163	Water	11-Nov-09 14:47	12-Nov-09 10:00
OU2B-SED-ST23-1109	20741164	Water	11-Nov-09 15:05	12-Nov-09 10:00
OU2B-SED-ST30-1109	20741165	Water	11-Nov-09 15:12	12-Nov-09 10:00

Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20101844

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

All MS/MSD recoveries or duplicate RPDs were within QC limits.

Project: 20101844

Analytical Method	Batch	Sample used for QC
SM 2540D	129393	Batch sample from another client

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST33-1109
Project: 20101844
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741158
Matrix: Water
%Moisture: n/a
Description: None
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	129393	1	49600		mg/L	4.00	13-Nov-09	13-Nov-09 08:37 SMS2	

1 parameter(s) reported

Inorganics 11/13/2009 18:59:37

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST31-1109
Project: 20101844
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741159
Matrix: Water
%Moisture: n/a
Description: None
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	129393	1	63000		mg/L	4.00	13-Nov-09	13-Nov-09 08:37 SMS2	

1 parameter(s) reported

Inorganics 11/13/2009 18:59:37

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST15-1109
Project: 20101844
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741160
Matrix: Water
%Moisture: n/a
Description: None
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	129393	1	790.		mg/L	4.00	13-Nov-09	13-Nov-09 08:37 SMS2	

1 parameter(s) reported

Inorganics 11/13/2009 18:59:37

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST13-1109
Project: 20101844
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741161
Matrix: Water
%Moisture: n/a
Description: None
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	129393	1	6120		mg/L	4.00	13-Nov-09	13-Nov-09 08:38 SMS2	

1 parameter(s) reported

Inorganics 11/13/2009 18:59:37

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST29-1109
Project: 20101844
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741162
Matrix: Water
%Moisture: n/a
Description: None
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	129393	1	1870		mg/L	4.00	13-Nov-09	13-Nov-09 08:38 SMS2	

1 parameter(s) reported

Inorganics 11/13/2009 18:59:37

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST24-1109
Project: 20101844
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741163
Matrix: Water
%Moisture: n/a
Description: None
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	129393	1	880.		mg/L	4.00	13-Nov-09	13-Nov-09 08:38 SMS2	

1 parameter(s) reported

Inorganics 11/13/2009 18:59:37

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MDL denotes method detection limit

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST23-1109
Project: 20101844
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741164
Matrix: Water
%Moisture: n/a
Description: None
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	129393	1	23800		mg/L	4.00	13-Nov-09	13-Nov-09 08:39 SMS2	

1 parameter(s) reported

Inorganics 11/13/2009 18:59:37

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MDL denotes method detection limit

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2B-SED-ST30-1109
Project: 20101844
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20741165
Matrix: Water
%Moisture: n/a
Description: None
Collected: 11-Nov-09
Received: 12-Nov-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	129393	1	5070		mg/L	4.00	13-Nov-09	13-Nov-09 08:39 SMS2	

1 parameter(s) reported

Inorganics 11/13/2009 18:59:37

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Inorganics Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20101844

Parameter	Batch	Blank	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Total Suspended Solid	129393	< 4.00	mg/L	100.	94.0	94							4	80-120		20	

11/13/2009 18:59:39

*** denotes recovery outside of QC limits.**
ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Definitions/Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20101844

Value	Description
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
U	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
B	This analyte was detected in the method blank.
E	The sample concentration is above the linear calibrated range of the analysis.
ND	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL	The adjusted method detection limit.
LCS(D)	Laboratory Control Sample (Duplicate).
MS(D)	Matrix Spike (Duplicate).
DUP	Sample Duplicate.
RPD	Relative Percent Difference.

20101844 20-CLIN EN

Pace Analytical®
www.pacelabs.com

Two Coolers

~~20101843~~ 6
20101844

Page: 1 of 1

1191746

Section A Required Client Information:

Company: MACTEC
Address: 3200 TALON POINT DR
KENNESAW GA 30144
Email To: CEDRAPER@MACTEC.COM
Phone: 770 421 3400 Fax: 770 421 3486
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: RdRoberts@Clin.com
Copy To: HLFOFELL@Macter.com
Purchase Order No.: CEMC COILE
Project Name: Clin McIntosh
Project Number: 10107090035

Invoice Information:

Attention: Kevin S Turner
Company Name: Clin Corporation
Address: 3855 N. Ocoee St Suite 100
Pace Quote Reference: Cleveland TN
Pace Project Manager: Cindy Clavesen
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER CERCLA

Site Location STATE: AL

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

CT-Sediment

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): Mercury, total 7471	% Moisture D2216	Density SM2710F	TSS EPA 160.2	TOC EPA 9060M	Grain Size	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	OU2B-SED-ST33-1109	CT	C	11/11/09		11/11/09	1022		6	X								X	X	X	X	X	X		207411
2	OU2B-SED-ST32-1109					11/11/09	1045		2	X								X				X			
3	OU2B-SED-ST31-1109					11/11/09	1130		6	X								X	X	X	X	X	X		159
~~4~~	~~OU2B~~																								~~158~~
5	OU2B SED-ST15-1109					11/11/09	1215		6	X								X	X	X	X	X	X		
6	OU2B-SED-ST16-1109					11/11/09	1327		6	X								X	X	X	X	X	X		161
7	OU2B-SED-ST14-1109					11/11/09	1340		2	X								X				X			
8	OU2B-SED-ST29-1109					11/11/09	1353		6	X								X	X	X	X	X	X		162
9	OU2B-SED-ST24-1109					11/11/09	1447		6	X								X	X	X	X	X	X		163
10	OU2B SED-ST23-1109					11/11/09	1505		6	X								X	X	X	X	X	X		164
11	OU2B-SED-ST30-1109					11/11/09	1512		6	X								X	X	X	X	X	X		165
12	OU2B-SED-ST17-1109					11/11/09	1534		2	X								X				X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Melissa Hatten / MACTEC	11/11/09	1630				
	Fed Ex	11/12/09	1000	N J Miller	11-12-09	1000	

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.0 2.1	X	Y	Y

SAMPLER NAME AND SIGNATURE: M Rottenberg Melissa Hatten

PRINT Name of SAMPLER: A Stell

SIGNATURE of SAMPLER: Anne Stell

DATE Signed (MM/DD/YY): 11/11/09

3

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

20101844 20-OLIN ENV

Pace Analytical

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Sample Cond

Project #: 20

Courier: ☐ Pace Courier ☐ Hackbarth ☑ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC] Custody Seals Intact: ☑Yes ☐No

Therometer Used: ☑ Therm Fisher IR 1 ☐ Therm Fisher IR 2 ☐ Therm Fisher IR 3

Type of Ice: (Wet) Blue None

Samples on Ice: [see COC]

Cooler Temperature: [see COC] *Temp should be above freezing to 6°C*

Date and Initials of person examining contents: 11-12-09 J

Temp must be measured from Temperature blank when present

		Comments:
Temperature Blank Present"?	☑Yes ☐No ☐N/A	1
Chain of Custody Present:	☑Yes ☐No ☐N/A	2
Chain of Custody Complete:	☑Yes ☐No ☐N/A	3
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	4
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	5
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	6
Sufficient Volume:	☑Yes ☐No ☐N/A	7
Correct Containers Used:	☑Yes ☐No ☐N/A	8
Filtered vol. Rec. for Diss. tests	☐Yes ☐No ☑N/A	9
Sample Labels match COC:	☑Yes ☐No ☐N/A	10
All containers received within manafacture's precautionary and/or expiration dates.	☑Yes ☐No ☐N/A	11
All containers needing preservation have been checked (except VOA, coliform, & O&G).	☐Yes ☐No ☑N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14
Trip Blank Present:	☐Yes ☐No ☑N/A	16
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	17
Pace Trip Blank Lot # (if purchased): N/A		18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

ALLC003rev.05, 12Jun2009 - mod

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

October 21, 2009

Keith Roberts
Olin Enviromental Management
Charleston Plant
1186 Lower river Road
Charleston, TN 37310

RE: Project 20100818
Project ID: OLIN MCINTOSH/6107090035

Dear Keith Roberts:

Enclosed are the analytical results for sample(s) received by the laboratory on October 17, 2009. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerly,

Cindy Olavesen

Cindy Olavesen
cindy.olavesen@pacelabs.com

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, execpt in full, without the written consent of Pace Analytical Services, Inc.

Laboratory Certifications

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20100818

Client: Olin Enviromental Management

Project ID: OLIN MCINTOSH/6107090035

U.S. Dept. of Agriculture Foreign Soil Import S-47270

Pennsylviania Dept. of Env Protection (NELAC) 68-04202

Texas Commission on Env. Quality (NELAC) T104704405-08-TX

Kansas Department of Health and Environment (NELAC) E-10266

Florida Department of Health (NELAC) E87595

Louisiana Dept. of Health and Hospitals (NELAC) LA080013

Louisiana Dept. of Environmental Quality (NELAC/LELAP) 02006

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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Sample Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20100818

Client: Olin Enviromental Management

Project ID: OLIN MCINTOSH/6107090035

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
OU2-TSS-C6B-101509	20733584	Water	15-Oct-09 12:55	17-Oct-09 09:00
OU2-TSS-C3B-101509	20733585	Water	15-Oct-09 13:04	17-Oct-09 09:00
OU2-TSS-A1T-101509	20733586	Water	15-Oct-09 10:25	17-Oct-09 09:00
OU2-TSS-C6T-101509	20733587	Water	15-Oct-09 12:53	17-Oct-09 09:00
OU2-TSS-C2T-101509	20733588	Water	15-Oct-09 12:43	17-Oct-09 09:00
OU2-TSS-D1T-101509	20733589	Water	15-Oct-09 09:25	17-Oct-09 09:00
OU2-TSS-C4B-101509	20733591	Water	15-Oct-09 11:32	17-Oct-09 09:00
OU2-TSS-D1B-101509	20733592	Water	15-Oct-09 09:30	17-Oct-09 09:00
OU2-TSS-B1T-101509	20733593	Water	15-Oct-09 11:05	17-Oct-09 09:00
OU2-TSS-C2B-101509	20733594	Water	15-Oct-09 12:45	17-Oct-09 09:00
OU2-TSS-C4T-101509	20733595	Water	15-Oct-09 11:30	17-Oct-09 09:00
OU2-TSS-B1B-101509	20733596	Water	15-Oct-09 11:07	17-Oct-09 09:00
OU2-TSS-DUP01-101509	20733598	Water	15-Oct-09 12:00	17-Oct-09 09:00
OU2-TSS-C3T-101509	20733599	Water	15-Oct-09 13:02	17-Oct-09 09:00
OU2-TSS-A1B-101509	20733600	Water	15-Oct-09 10:30	17-Oct-09 09:00
OU2-TSS-C1B-101509	20733601	Water	15-Oct-09 12:06	17-Oct-09 09:00
OU2-TSS-B2T-101509	20733602	Water	15-Oct-09 10:50	17-Oct-09 09:00
OU2-TSS-DUP02-101509	20733603	Water	15-Oct-09 12:00	17-Oct-09 09:00
OU2-TSS-B3B-101509	20733604	Water	15-Oct-09 13:20	17-Oct-09 09:00
OU2-TSS-B3T-101509	20733605	Water	15-Oct-09 13:18	17-Oct-09 09:00
OU2-TSS-C5B-101509	20733606	Water	15-Oct-09 11:42	17-Oct-09 09:00
OU2-TSS-C1T-101509	20733607	Water	15-Oct-09 12:04	17-Oct-09 09:00
OU2-TSS-B2B-101509	20733608	Water	15-Oct-09 10:52	17-Oct-09 09:00
OU2-TSS-C5T-101509	20733609	Water	15-Oct-09 11:40	17-Oct-09 09:00
OU2-TSS-DUP01-101609	20733610	Water	16-Oct-09 12:00	17-Oct-09 09:00
OU2-TSS-DUP02-101609	20733611	Water	16-Oct-09 12:00	17-Oct-09 09:00
OU2-TSS-DUP03-101609	20733612	Water	16-Oct-09 12:00	17-Oct-09 09:00
OU2-TSS-C4T-101609	20733613	Water	16-Oct-09 10:02	17-Oct-09 09:00
OU2-TSS-D1T-101609	20733614	Water	16-Oct-09 09:20	17-Oct-09 09:00
OU2-TSS-B2T-101609	20733615	Water	16-Oct-09 09:46	17-Oct-09 09:00
OU2-TSS-A1T-101609	20733616	Water	16-Oct-09 09:37	17-Oct-09 09:00
OU2-TSS-A1B-101609	20733617	Water	16-Oct-09 09:39	17-Oct-09 09:00
OU2-TSS-B1B-101609	20733618	Water	16-Oct-09 09:57	17-Oct-09 09:00
OU2-TSS-D1B-101609	20733619	Water	16-Oct-09 09:22	17-Oct-09 09:00
OU2-TSS-B2B-101609	20733620	Water	16-Oct-09 09:48	17-Oct-09 09:00
OU2-TSS-C4B-101609	20733621	Water	16-Oct-09 10:04	17-Oct-09 09:00
OU2-TSS-B1T-101609	20733622	Water	16-Oct-09 09:55	17-Oct-09 09:00
OU2-TSS-C5T-101609	20733623	Water	16-Oct-09 10:10	17-Oct-09 09:00
OU2-TSS-C5B-101609	20733624	Water	16-Oct-09 10:12	17-Oct-09 09:00
OU2-TSS-C1B-101609	20733625	Water	16-Oct-09 10:19	17-Oct-09 09:00
OU2-TSS-C2T-101609	20733626	Water	16-Oct-09 10:25	17-Oct-09 09:00
OU2-TSS-C1T-101609	20733628	Water	16-Oct-09 10:18	17-Oct-09 09:00
OU2-TSS-C2B-101609	20733629	Water	16-Oct-09 10:26	17-Oct-09 09:00

Sample Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20100818

Client: Olin Enviromental Management

Project ID: OLIN MCINTOSH/6107090035

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
OU2-TSS-C3T-101609	20733630	Water	16-Oct-09 10:38	17-Oct-09 09:00
OU2-TSS-C6T-101609	20733631	Water	16-Oct-09 10:32	17-Oct-09 09:00
OU2-TSS-C3B-101609	20733632	Water	16-Oct-09 10:39	17-Oct-09 09:00
OU2-TSS-B3B-101609	20733633	Water	16-Oct-09 10:48	17-Oct-09 09:00
OU2-TSS-C6B-101609	20733634	Water	16-Oct-09 10:33	17-Oct-09 09:00
OU2-TSS-B3T-101609	20733635	Water	16-Oct-09 10:46	17-Oct-09 09:00

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20100818

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

All MS/MSD recoveries or duplicate RPDs were within QC limits.

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20100818

Analytical Method	Batch	Sample used for QC
SM 2540D	127805	Batch sample from another client
SM 2540D	127820	Project sample OU2-TSS-C4T-101509
SM 2540D	127869	Batch sample from another client
SM 2540D	127923	Project sample OU2-TSS-C6T-101609

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C6B-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733584
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127805	1	10.0		mg/L	4.00	19-Oct-09	19-Oct-09 11:24 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:40

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C3B-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733585
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127805	1	11.5		mg/L	4.00	19-Oct-09	19-Oct-09 11:24 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:40

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-A1T-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733586
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127805	1	5.00		mg/L	4.00	19-Oct-09	19-Oct-09 11:25 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:40

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C6T-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733587
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127805	1	7.50		mg/L	4.00	19-Oct-09	19-Oct-09 11:25 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:40

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MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C2T-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733588
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127805	1	4.00		mg/L	4.00	19-Oct-09	19-Oct-09 11:25 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:40

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-D1T-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733589
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127805	1	4.50		mg/L	4.00	19-Oct-09	19-Oct-09 11:26 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:40

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C4B-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733591
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127805	1	9.50		mg/L	4.00	19-Oct-09	19-Oct-09 11:26 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:40

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-D1B-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733592
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127805	1	8.50		mg/L	4.00	19-Oct-09	19-Oct-09 11:26 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:40

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B1T-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733593
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127805	1	7.00		mg/L	4.00	19-Oct-09	19-Oct-09 11:27 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:40

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C2B-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733594
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127805	1	9.00		mg/L	4.00	19-Oct-09	19-Oct-09 11:27 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C4T-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733595
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127820	1	4.00		mg/L	4.00	19-Oct-09	19-Oct-09 12:10 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B1B-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733596
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127820	1	4.00		mg/L	4.00	19-Oct-09	19-Oct-09 12:11 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-DUP01-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733598
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127820	1	ND		mg/L	4.00	19-Oct-09	19-Oct-09 12:12 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C3T-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733599
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127820	1	4.50		mg/L	4.00	19-Oct-09	19-Oct-09 12:12 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-A1B-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733600
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127820	1	7.50		mg/L	4.00	19-Oct-09	19-Oct-09 12:12 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C1B-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733601
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127820	1	9.00		mg/L	4.00	19-Oct-09	19-Oct-09 12:13 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B2T-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733602
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127820	1	ND		mg/L	4.00	19-Oct-09	19-Oct-09 12:13 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-DUP02-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733603
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127820	1	7.00		mg/L	4.00	19-Oct-09	19-Oct-09 12:13 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B3B-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733604
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127820	1	8.00		mg/L	4.00	19-Oct-09	19-Oct-09 12:13 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B3T-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733605
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127820	1	5.00		mg/L	4.00	19-Oct-09	19-Oct-09 12:14 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C5B-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733606
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127820	1	7.50		mg/L	4.00	19-Oct-09	19-Oct-09 12:14 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C1T-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733607
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127820	1	4.00		mg/L	4.00	19-Oct-09	19-Oct-09 12:15 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B2B-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733608
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127820	1	7.50		mg/L	4.00	19-Oct-09	19-Oct-09 12:15 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C5T-101509
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733609
Matrix: Water
%Moisture: n/a
Description: None
Collected: 15-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127820	1	ND		mg/L	4.00	19-Oct-09	19-Oct-09 12:15 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-DUP01-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733610
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127820	1	15.0		mg/L	4.00	19-Oct-09	19-Oct-09 12:17 TAE	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-DUP02-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733611
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127869	1	6.00		mg/L	4.00	19-Oct-09	19-Oct-09 16:54 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-DUP03-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733612
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127869	1	6.00		mg/L	4.00	19-Oct-09	19-Oct-09 16:55 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C4T-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733613
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127869	1	ND		mg/L	4.00	19-Oct-09	19-Oct-09 16:55 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-D1T-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733614
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127869	1	6.50		mg/L	4.00	19-Oct-09	19-Oct-09 16:55 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B2T-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733615
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127869	1	5.50		mg/L	4.00	19-Oct-09	19-Oct-09 16:56 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-A1T-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733616
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127869	1	6.50		mg/L	4.00	19-Oct-09	19-Oct-09 16:56 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-A1B-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733617
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127869	1	7.50		mg/L	4.00	19-Oct-09	19-Oct-09 16:56 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

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MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B1B-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733618
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127869	1	7.50		mg/L	4.00	19-Oct-09	19-Oct-09 16:56 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

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MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-D1B-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733619
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127869	1	8.00		mg/L	4.00	19-Oct-09	19-Oct-09 16:56 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

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MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B2B-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733620
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127869	1	6.50		mg/L	4.00	19-Oct-09	19-Oct-09 16:57 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
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Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C4B-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733621
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127869	1	7.00		mg/L	4.00	19-Oct-09	19-Oct-09 16:57 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B1T-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733622
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127869	1	4.50		mg/L	4.00	19-Oct-09	19-Oct-09 16:57 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

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MDL denotes method detection limit

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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C5T-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733623
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127869	1	6.00		mg/L	4.00	19-Oct-09	19-Oct-09 16:58 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C5B-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733624
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127869	1	6.50		mg/L	4.00	19-Oct-09	19-Oct-09 16:58 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

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MDL denotes method detection limit

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C1B-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733625
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127869	1	8.50		mg/L	4.00	19-Oct-09	19-Oct-09 16:58 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

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MDL denotes method detection limit

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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C2T-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733626
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127869	1	7.00		mg/L	4.00	19-Oct-09	19-Oct-09 16:59 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
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Limits are corrected for sample size, dilution and moisture content if applicable.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C1T-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733628
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127869	1	8.50		mg/L	4.00	19-Oct-09	19-Oct-09 16:59 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

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MDL denotes method detection limit

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C2B-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733629
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127869	1	12.5		mg/L	4.00	19-Oct-09	19-Oct-09 16:59 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C3T-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733630
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127869	1	9.00		mg/L	4.00	19-Oct-09	19-Oct-09 16:59 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C6T-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733631
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127923	1	7.00		mg/L	4.00	20-Oct-09	20-Oct-09 14:36 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C3B-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733632
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127923	1	18.0		mg/L	4.00	20-Oct-09	20-Oct-09 14:37 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

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MDL denotes method detection limit

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B3B-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733633
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127923	1	8.00		mg/L	4.00	20-Oct-09	20-Oct-09 14:37 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C6B-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733634
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127923	1	14.5		mg/L	4.00	20-Oct-09	20-Oct-09 14:37 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B3T-101609
Project: 20100818
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20733635
Matrix: Water
%Moisture: n/a
Description: None
Collected: 16-Oct-09
Received: 17-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127923	1	6.00		mg/L	4.00	20-Oct-09	20-Oct-09 14:38 JMA	

1 parameter(s) reported

Inorganics 10/21/2009 19:48:41

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Inorganics Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20100818

Parameter	Batch	Blank	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Total Suspended Solid	127805	< 4.00	mg/L	100.	99.0	99							4	80-120		20	
Total Suspended Solid	127820	< 4.00	mg/L	100.	99.0	99							0	80-120		20	
Total Suspended Solid	127869	< 4.00	mg/L	100.	99.5	100							4	80-120		20	
Total Suspended Solid	127923	< 4.00	mg/L	100.	97.5	98							7	80-120		20	

10/21/2009 19:48:43

*** denotes recovery outside of QC limits.**
ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Definitions/Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20100818

Value	Description
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
U	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
B	This analyte was detected in the method blank.
E	The sample concentration is above the linear calibrated range of the analysis.
ND	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL	The adjusted method detection limit.
LCS(D)	Laboratory Control Sample (Duplicate).
MS(D)	Matrix Spike (Duplicate).
DUP	Sample Duplicate.
RPD	Relative Percent Difference.

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical R

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fie

20100818 20-OLIN ENV

Section A Required Client Information:
Company: Olin - McIntosh - MACTEC
Address: 3000 Sun Point Dr NW Ste 110
Huntsville, AL 35144
Email To: ccurapet@mactec.com
Phone: 704-213-100 Fax: 704-213-486
Requested Due Date/TAT: Std

Section B Required Project Information:
Report To: kdroberts@olin.com
Copy To:
Purchase Order No.: OEM C 00 10
Project Name: Olin McIntosh
Project Number: C0J709V035

Section C Invoice Information:
Attention: Dennis Turner
Company Name: Olin Corporation
Address: 3855 N Ocoee St. Ste 200 Cleveland TN 37312
Pace Quote Reference:
Pace Project Manager: Cindy Olavesen
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☒ ~~RCRA~~ CER CLA ☐ OTHER

Site Location STATE: AL

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: TSS 160.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	OU2-TSS-C6B-101509	WT	G	101509	1255				1	X								X		20733584
2	OU2-TSS-C3B-101509				1304				1	X								X		585
3	OU2-TSS-A1T-101509				1025				1	X								X		586
4	OU2-TSS-C6T-101509				1253				1	X								X		587
5	~~OU2-TSS-A1T-101509~~																			
6	OU2-TSS-C2T-101509				1243				1	X								X		588
7	OU2-TSS-D1T-101509				0925				1	X								X		589
8	OU2-TSS-C4B-101509				1132				1	X								X		591
9	OU2-TSS-D1B-101509				0930				1	X								X		592
10	OU2-TSS-B1T-101509				1105				1	X								X		593
11	OU2-TSS-C2B-101509				1245				1	X								X		594
12	OU2-TSS-C4T-101509				1130				1	X								X		595

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Melin Rotty MACTEC	10/16/09	1200							
	Ted C				10/16/09	0900	2.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M Rottenberg
SIGNATURE of SAMPLER: Melin Rotty
DATE Signed (MM/DD/YY): 10/15/09

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

20100818

Page: 52 of 55

1210276

Section A Required Client Information:

Company: MACTEC	
Address: 3535 Hartman Pt Dr. NW Ste 100	
Kennesaw GA 30144	
Email To: edraper@mactec.com	
Phone: 770-421-3400	Fax: 770-421-3486
Requested Due Date/TAT: Standard	

Section B Required Project Information:

Report To: kdroberts@olin.com	
Copy To:	
Purchase Order No.: OLIN COOK	
Project Name: Olin McIntosh	
Project Number: 6107090035	

Section C Invoice Information:

Attention: Dennis Turner	
Company Name: Olin Corporation	
Address: 2955 N Cooper St Ste 200	
Pace Quote Reference: Collierville TN 37312	
Pace Project Manager: Cindy Olavesen	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER CERCLA

Site Location STATE: AL

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	TSS	TSS H_2O_2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	OU2-TSS-BIB-101509	WT	G	101509	1107				1	X									X			20733596
2	OU2-TSS-DUP01-101509				1200				1	X									X			598
3	OU2-TSS-C3T-101509				1302				1	X									X			599
4	OU2-TSS-A1B-101509				1020				1	X									X			600
5	OU2-TSS-C1B-101509				1206				1	X									X			601
6	OU2-TSS-B2T-101509				1050				1	X									X			602
7	OU2-TSS-DUP02-101509				1300				1	X									X			603
8	OU2-TSS-B3B-101509				1320				1	X									X			604
9	OU2-TSS-B3T-101509				1318				1	X									X			605
10	OU2-TSS-C3B-101509				1142				1	X									X			606
11	OU2-TSS-C1T-101509				1204				1	X									X			607
12	OU2-TSS-B2B-101509				1052				1	X									X			608

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Melissa Rotty / MACTEC	10.16.09	1310							
	Ted Q			[illegible]	10/17/09	0900	2.5	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: MKrotkenberg

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/15/09

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

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20100818

Page: 3 of 5

1210274

Section A Required Client Information:
Company: MACTEC
Address: 3200 Town Pt Dr NW Ste 100
Kennesaw GA 30144
Email To: ccdraper@mactec.com
Phone: 7704213400 Fax: 7704213486
Requested Due Date/TAT: standard

Section B Required Project Information:
Report To: kdroberts@olin.com
Copy To:
Purchase Order No.: OEMC0016
Project Name: Olin McIntosh
Project Number: 01070900035

Section C Invoice Information:
Attention: Dennis Turner
Company Name: Olin Corporation
Address: 3855 N Ocoee St. Ste 200
Cleveland TN 37312
Pace Quote Reference:
Pace Project Manager: Cindy Olavesen
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER CERCLA

Site Location STATE: AL

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Analysis Test: TSS 160.2

Item	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	OU2-TSS-CST-101509	WT	G	101509	1140				1	X								X		20733609
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Melin Rottenberg / MACTEC	10/16/09	1200							
					10/17/09	900	2.8	Y	Y	Y

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: MRottenberg
SIGNATURE of SAMPLER: Melin Rottenberg
DATE Signed (MM/DD/YY): 10/15/09

...1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

20100818

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 4 of 5

1210275

Section A Required Client Information:

Company: MACTEC
Address: 3200 Town Pt Dr NW Ste 100
Kennesaw GA 30144
Email To: cedrape@mactec.com
Phone: 770-421-3400 Fax: 770-421-3486
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: karobertson@ka.com
Copy To:
Purchase Order No.: OEMC0016
Project Name: Olin Mcintosh
Project Number: 6107090035

Section C Invoice Information:

Attention: Dennis Turner
Company Name: Olin Corporation
Address: 3855 N Ocoee St Cleveland TN Suite 200
Pace Quote Reference:
Pace Project Manager: Cindy Olavesen
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER CWA

Site Location STATE: AL

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Analysis Test: TSS 160.2

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	TSS 160.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	OV2-TSS-DUP01-101609	WT	G	10.16.09	1200					X								X		20733610
2	OV2-TSS-DUP02-101609	↓	↓	↓	1200					X								X		611
3	OV2-TSS-DUP03-101609	↓	↓	↓	1200					X								X		612
4	OV2-TSS-CHT-101609	↓	↓	↓	1002					X								X		613
5	OV2-TSS-DNT-101609	↓	↓	↓	0920					X								X		614
6	OV2-TSS-B2T-101609	↓	↓	↓	0946					X								X		615
7	OV2-TSS-A1T-101609	↓	↓	↓	0937					X								X		616
8	OV2-TSS-A1B-101609	↓	↓	↓	0939					X								X		617
9	OV2-TSS-B1B-101609	↓	↓	↓	0957					X								X		618
10	OV2-TSS-D1B-101609	↓	↓	↓	0922					X								X		619
11	OV2-TSS-B2B-101609	↓	↓	↓	0948					X								X		620
12	OV2-TSS-CHB-101609	↓	↓	↓	1004					X								X		621

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Michael Rotty MACTEC	10/16/09	1200							
	Fed Ex				10/17/09	0900	2.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M Rottenberg

SIGNATURE of SAMPLER: Michael Rotty

DATE Signed (MM/DD/YY): 10/16/09

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

20100818 5 of 5

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CHAIN OF CUSTODY

(Please Print Clearly)	
Company Name:	MACTEC
Branch/Location:	Kennesaw GA
Project Contact:	Cynthia Draper
Phone:	7704213565
Project Number:	6107090035
Project Name:	Olin McIntosh
Project State:	AL
Sampled By (Print):	MRottenberg
Sampled By (Sign):	Melin Rotten
PO #:	OEMCOD16
Regulatory Program:	

~~Quote #:~~ PM	Cindy Olavesen
Mail To Contact:	cedraper@mactec.com
Mail To Company:	kdroberts@olin.com
Mail To Address:	
Invoice To Contact:	Dennis Turner
Invoice To Company:	Olin Corporation
Invoice To Address:	3855 N Ocoee St Suite 210 Cleveland, TN 37312
Invoice To Phone:	

PACE

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Data Package Options (billable): ☐ EPA Level III ☐ EPA Level IV

MS/MSD: ☐ On your sample (billable) ☐ NOT needed on your sample

Matrix Codes: A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses to be performed	FILTERED? (YES/NO)	PRESERVATION (CODE)*								CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
						N	A										
	OU2-TSS-B1T-101609	10.16.09	0955	SW	TSS 160.2											20733622	
	OU2-TSS-C5T-101609	↓	1010	↓												623	
	OU2-TSS-C5B-101609		1012													624	
	OU2-TSS-C1B-101609		1019													625	
	OU2-TSS-C2T-101609		1025													626	
	OU2-TSS-C1T-101609		1018													628	
	OU2-TSS-C2B-101609		1026													629	
	OU2-TSS-C3T-101609		1038													630	
	OU2-TSS-C6T-101609		1032													631	
	OU2-TSS-C3B-101609		1039													632	
	OU2-TSS-B3B-101609		1048													623	
	OU2-TSS-C6B-101609		1033													634	
	OU2-TSS-B3T-101609	↓	1046	↓												635	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1: cedraper@mactec.com
Email #2: kdroberts@olin.com
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Melin B Rotten	10/16/09 1200		
[illegible]		[illegible]	10/17/09 0900

PACE Project No.: 28
Receipt Temp = °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/08

ORIGINAL

20100818 20-OLIN ENV

Pace Analytical

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Sample Condition Upon Receipt

Project #: 20

Courier: ☐ Pace Courier ☐ Hackbarth ☑ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC] **Custody Seals intact:** ☑Yes ☐No

Therometer Used: ☑ Therm Fisher IR 1 ☐ Therm Fisher IR 2 ☐ Therm Fisher IR 3

Type of Ice: ☑Wet Blue None

Samples on Ice: [see COC]

Cooler Temperature: [see COC] Temp should be above freezing to 6°C

Date and initials of person examining contents: IN 10/16/09

Temp must be measured from Temperature blank when present

				Comments:
Temperature Blank Present"?	☐Yes	☑No	☐N/A	1
Chain of Custody Present:	☑Yes	☐No	☐N/A	2
Chain of Custody Complete:	☑Yes	☐No	☐N/A	3
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	4
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	5
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	6
Sufficient Volume:	☑Yes	☐No	☐N/A	7
Correct Containers Used:	☑Yes	☐No	☐N/A	8
Filtered vol. Rec. for Diss. tests	☐Yes	☐No	☑N/A	9
Sample Labels match COC:	☑Yes	☐No	☐N/A	10
All containers received within manafacture's precautionary and/or expiration dates.	☑Yes	☐No	☐N/A	11
All containers needing preservation have been checked (except VOA, coliform, & O&G).	☑Yes	☐No	☐N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	☐Yes	☑No	☐N/A	13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Samples checked for dechlorination:	☐Yes	☑No	☑N/A	14
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	14
Trip Blank Present:	☐Yes	☑No	☐N/A	16
Trip Blank Custody Seals Present	☐Yes	☑No	☐N/A	17
Pace Trip Blank Lot # (if purchased): N/A				18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

ALLC003rev.05, 12Jun2009 - mod

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

October 22, 2009

Keith Roberts
Olin Enviromental Management
Charleston Plant
1186 Lower river Road
Charleston, TN 37310

RE: Project 20100867
Project ID: OLIN MCINTOSH/6107090035

Dear Keith Roberts:

Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2009. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerly,

Cindy Olavesen

Cindy Olavesen
cindy.olavesen@pacelabs.com

REPORT OF LABORATORY ANALYSIS

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Laboratory Certifications

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20100867

Client: Olin Enviromental Management

Project ID: OLIN MCINTOSH/6107090035

U.S. Dept. of Agriculture Foreign Soil Import S-47270

Pennsylviania Dept. of Env Protection (NELAC) 68-04202

Texas Commission on Env. Quality (NELAC) T104704405-08-TX

Kansas Department of Health and Environment (NELAC) E-10266

Florida Department of Health (NELAC) E87595

Louisiana Dept. of Health and Hospitals (NELAC) LA080013

Louisiana Dept. of Environmental Quality (NELAC/LELAP) 02006

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

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Sample Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20100867

Client: Olin Enviromental Management

Project ID: OLIN MCINTOSH/6107090035

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
OU2-TSS-D1T-101709	20734211	Water	17-Oct-09 09:15	20-Oct-09 10:10
OU2-TSS-D1B-101709	20734214	Water	17-Oct-09 09:17	20-Oct-09 10:10
OU2-TSS-A1T-101709	20734215	Water	17-Oct-09 09:40	20-Oct-09 10:10
OU2-TSS-A1B-101709	20734216	Water	17-Oct-09 09:42	20-Oct-09 10:10
OU2-TSS-B2T-101709	20734218	Water	17-Oct-09 09:52	20-Oct-09 10:10
OU2-TSS-B2B-101709	20734219	Water	17-Oct-09 09:55	20-Oct-09 10:10
OU2-TSS-B1T-101709	20734221	Water	17-Oct-09 10:00	20-Oct-09 10:10
OU2-TSS-B1B-101709	20734222	Water	17-Oct-09 10:02	20-Oct-09 10:10
OU2-TSS-C4T-101709	20734223	Water	17-Oct-09 10:07	20-Oct-09 10:10
OU2-TSS-C4B-101709	20734224	Water	17-Oct-09 10:10	20-Oct-09 10:10
OU2-TSS-C5T-101709	20734225	Water	17-Oct-09 10:14	20-Oct-09 10:10
OU2-TSS-C5B-101709	20734226	Water	17-Oct-09 10:16	20-Oct-09 10:10
OU2-TSS-C1T-101709	20734227	Water	17-Oct-09 10:20	20-Oct-09 10:10
OU2-TSS-C1B-101709	20734228	Water	17-Oct-09 10:22	20-Oct-09 10:10
OU2-TSS-C2T-101709	20734234	Water	17-Oct-09 10:27	20-Oct-09 10:10
OU2-TSS-C2B-101709	20734235	Water	17-Oct-09 10:30	20-Oct-09 10:10
OU2-TSS-C6T-101709	20734236	Water	17-Oct-09 10:35	20-Oct-09 10:10
OU2-TSS-C6B-101709	20734237	Water	17-Oct-09 10:37	20-Oct-09 10:10
OU2-TSS-C3T-101709	20734238	Water	17-Oct-09 10:42	20-Oct-09 10:10
OU2-TSS-C3B-101709	20734239	Water	17-Oct-09 10:44	20-Oct-09 10:10
OU2-TSS-B3T-101709	20734240	Water	17-Oct-09 10:48	20-Oct-09 10:10
OU2-TSS-B3B-101709	20734241	Water	17-Oct-09 10:50	20-Oct-09 10:10
OU2-TSS-DUP01-101709	20734242	Water	17-Oct-09 12:00	20-Oct-09 10:10
OU2-TSS-DUP02-101709	20734243	Water	17-Oct-09 12:00	20-Oct-09 10:10
OU2-TSS-DUP03-101709	20734244	Water	17-Oct-09 12:00	20-Oct-09 10:10
OU2-TSS-D1T-101809	20734245	Water	18-Oct-09 12:35	20-Oct-09 10:10
OU2-TSS-D1B-101809	20734246	Water	18-Oct-09 12:37	20-Oct-09 10:10
OU2-TSS-A1T-101809	20734247	Water	18-Oct-09 12:50	20-Oct-09 10:10
OU2-TSS-A1B-101809	20734248	Water	18-Oct-09 12:52	20-Oct-09 10:10
OU2-TSS-B2T-101809	20734249	Water	18-Oct-09 12:57	20-Oct-09 10:10
OU2-TSS-B2B-101809	20734250	Water	18-Oct-09 13:00	20-Oct-09 10:10
OU2-TSS-B1T-101809	20734251	Water	18-Oct-09 13:05	20-Oct-09 10:10
OU2-TSS-B1B-101809	20734252	Water	18-Oct-09 13:07	20-Oct-09 10:10
OU2-TSS-C4T-101809	20734253	Water	18-Oct-09 13:11	20-Oct-09 10:10
OU2-TSS-C4B-101809	20734254	Water	18-Oct-09 13:13	20-Oct-09 10:10
OU2-TSS-C5T-101809	20734255	Water	18-Oct-09 13:17	20-Oct-09 10:10
OU2-TSS-C5B-101809	20734256	Water	18-Oct-09 13:19	20-Oct-09 10:10
OU2-TSS-C1T-101809	20734257	Water	18-Oct-09 13:23	20-Oct-09 10:10
OU2-TSS-C1B-101809	20734260	Water	18-Oct-09 13:25	20-Oct-09 10:10
OU2-TSS-C2T-101809	20734263	Water	18-Oct-09 13:30	20-Oct-09 10:10
OU2-TSS-C2B-101809	20734264	Water	18-Oct-09 13:32	20-Oct-09 10:10
OU2-TSS-C6T-101809	20734266	Water	18-Oct-09 13:38	20-Oct-09 10:10
OU2-TSS-C6B-101809	20734267	Water	18-Oct-09 13:40	20-Oct-09 10:10

Sample Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20100867

Client: Olin Enviromental Management

Project ID: OLIN MCINTOSH/6107090035

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
OU2-TSS-C3T-101809	20734272	Water	18-Oct-09 13:45	20-Oct-09 10:10
OU2-TSS-C3B-101809	20734277	Water	18-Oct-09 13:47	20-Oct-09 10:10
OU2-TSS-B3T-101809	20734278	Water	18-Oct-09 13:52	20-Oct-09 10:10
OU2-TSS-B3B-101809	20734279	Water	18-Oct-09 13:54	20-Oct-09 10:10
OU2-TSS-DUP01-101809	20734280	Water	18-Oct-09 12:00	20-Oct-09 10:10
OU2-TSS-DUP02-101809	20734281	Water	18-Oct-09 12:00	20-Oct-09 10:10
OU2-TSS-DUP03-101809	20734282	Water	18-Oct-09 12:00	20-Oct-09 10:10
OU2-TSS-D1T-101909	20734284	Water	19-Oct-09 12:07	20-Oct-09 10:10
OU2-TSS-D1B-101909	20734285	Water	19-Oct-09 12:09	20-Oct-09 10:10
OU2-TSS-A1T-101909	20734286	Water	19-Oct-09 12:20	20-Oct-09 10:10
OU2-TSS-A1B-101909	20734288	Water	19-Oct-09 12:22	20-Oct-09 10:10
OU2-TSS-B2T-101909	20734290	Water	19-Oct-09 12:30	20-Oct-09 10:10
OU2-TSS-B2B-101909	20734291	Water	19-Oct-09 12:32	20-Oct-09 10:10
OU2-TSS-B1T-101909	20734292	Water	19-Oct-09 12:39	20-Oct-09 10:10
OU2-TSS-B1B-101909	20734293	Water	19-Oct-09 12:40	20-Oct-09 10:10
OU2-TSS-C4T-101909	20734294	Water	19-Oct-09 12:47	20-Oct-09 10:10
OU2-TSS-C4B-101909	20734299	Water	19-Oct-09 12:48	20-Oct-09 10:10
OU2-TSS-C5T-101909	20734300	Water	19-Oct-09 12:56	20-Oct-09 10:10
OU2-TSS-C5B-101909	20734301	Water	19-Oct-09 12:57	20-Oct-09 10:10
OU2-TSS-C1T-101909	20734302	Water	19-Oct-09 13:02	20-Oct-09 10:10
OU2-TSS-C1B-101909	20734304	Water	19-Oct-09 13:03	20-Oct-09 10:10
OU2-TSS-C2T-101909	20734305	Water	19-Oct-09 13:12	20-Oct-09 10:10
OU2-TSS-C2B-101909	20734307	Water	19-Oct-09 13:13	20-Oct-09 10:10
OU2-TSS-C6T-101909	20734308	Water	19-Oct-09 13:19	20-Oct-09 10:10
OU2-TSS-C6B-101909	20734309	Water	19-Oct-09 13:20	20-Oct-09 10:10
OU2-TSS-C3T-101909	20734310	Water	19-Oct-09 13:27	20-Oct-09 10:10
OU2-TSS-C3B-101909	20734311	Water	19-Oct-09 13:28	20-Oct-09 10:10
OU2-TSS-B3T-101909	20734312	Water	19-Oct-09 13:35	20-Oct-09 10:10
OU2-TSS-B3B-101909	20734313	Water	19-Oct-09 13:36	20-Oct-09 10:10
OU2-TSS-DUP01-101909	20734314	Water	19-Oct-09 12:00	20-Oct-09 10:10
OU2-TSS-DUP02-101909	20734315	Water	19-Oct-09 12:00	20-Oct-09 10:10
OU2-TSS-DUP03-101909	20734316	Water	19-Oct-09 12:00	20-Oct-09 10:10

Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20100867

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

All MS/MSD recoveries or duplicate RPDs were within QC limits.

Project: 20100867

Analytical Method	Batch	Sample used for QC
SM 2540D	127923	
SM 2540D	127924	Project sample OU2-TSS-C1B-101709
SM 2540D	127939	Project sample OU2-TSS-C4T-101809
SM 2540D	128003	Batch sample from another client
SM 2540D	128004	Project sample OU2-TSS-C4T-101909

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-D1T-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734211
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127923	1	14.0		mg/L	4.00	20-Oct-09	20-Oct-09 14:38 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:47

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-D1B-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734214
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127923	1	17.0		mg/L	4.00	20-Oct-09	20-Oct-09 14:39 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:47

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-A1T-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734215
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127923	1	12.0		mg/L	4.00	20-Oct-09	20-Oct-09 14:39 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:47

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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-A1B-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734216
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127923	1	15.0		mg/L	4.00	20-Oct-09	20-Oct-09 14:39 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:47

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B2T-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734218
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127923	1	11.5		mg/L	4.00	20-Oct-09	20-Oct-09 14:39 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:47

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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B2B-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734219
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127923	1	14.0		mg/L	4.00	20-Oct-09	20-Oct-09 14:40 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:47

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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B1T-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734221
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127923	1	8.50		mg/L	4.00	20-Oct-09	20-Oct-09 14:40 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:47

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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B1B-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734222
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127923	1	11.5		mg/L	4.00	20-Oct-09	20-Oct-09 14:40 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:47

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C4T-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734223
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127923	1	8.00		mg/L	4.00	20-Oct-09	20-Oct-09 14:41 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:47

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C4B-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734224
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127923	1	11.0		mg/L	4.00	20-Oct-09	20-Oct-09 14:41 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:47

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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C5T-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734225
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127923	1	9.50		mg/L	4.00	20-Oct-09	20-Oct-09 14:41 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C5B-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734226
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127923	1	9.50		mg/L	4.00	20-Oct-09	20-Oct-09 14:41 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C1T-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734227
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127923	1	12.0		mg/L	4.00	20-Oct-09	20-Oct-09 14:42 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C1B-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734228
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	14.5		mg/L	4.00	20-Oct-09	20-Oct-09 14:45 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C2T-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734234
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	11.5		mg/L	4.00	20-Oct-09	20-Oct-09 14:45 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C2B-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734235
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	14.5		mg/L	4.00	20-Oct-09	20-Oct-09 14:45 JMA	

1 parameter(s) reported

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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C6T-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734236
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	16.0		mg/L	4.00	20-Oct-09	20-Oct-09 14:46 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C6B-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734237
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	16.0		mg/L	4.00	20-Oct-09	20-Oct-09 14:46 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C3T-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734238
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	15.0		mg/L	4.00	20-Oct-09	20-Oct-09 14:46 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C3B-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734239
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	14.5		mg/L	4.00	20-Oct-09	20-Oct-09 14:46 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B3T-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734240
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	13.5		mg/L	4.00	20-Oct-09	20-Oct-09 14:47 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B3B-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734241
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	16.5		mg/L	4.00	20-Oct-09	20-Oct-09 14:47 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-DUP01-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734242
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	10.5		mg/L	4.00	20-Oct-09	20-Oct-09 14:47 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-DUP02-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734243
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	18.5		mg/L	4.00	20-Oct-09	20-Oct-09 14:48 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-DUP03-101709
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734244
Matrix: Water
%Moisture: n/a
Description: None
Collected: 17-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	14.5		mg/L	4.00	20-Oct-09	20-Oct-09 14:48 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-D1T-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734245
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	14.5		mg/L	4.00	20-Oct-09	20-Oct-09 14:48 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-D1B-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734246
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	22.0		mg/L	4.00	20-Oct-09	20-Oct-09 14:48 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-A1T-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734247
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	16.5		mg/L	4.00	20-Oct-09	20-Oct-09 14:49 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
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Limits are corrected for sample size, dilution and moisture content if applicable.
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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-A1B-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734248
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	23.0		mg/L	4.00	20-Oct-09	20-Oct-09 14:49 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B2T-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734249
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	22.0		mg/L	4.00	20-Oct-09	20-Oct-09 14:49 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B2B-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734250
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	22.0		mg/L	4.00	20-Oct-09	20-Oct-09 14:49 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B1T-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734251
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	11.5		mg/L	4.00	20-Oct-09	20-Oct-09 14:50 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B1B-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734252
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127924	1	13.5		mg/L	4.00	20-Oct-09	20-Oct-09 14:50 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C4T-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734253
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127939	1	11.5		mg/L	4.00	20-Oct-09	20-Oct-09 15:05 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C4B-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734254
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127939	1	15.0		mg/L	4.00	20-Oct-09	20-Oct-09 15:05 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C5T-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734255
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127939	1	15.0		mg/L	4.00	20-Oct-09	20-Oct-09 15:05 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C5B-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734256
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127939	1	16.0		mg/L	4.00	20-Oct-09	20-Oct-09 15:06 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C1T-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734257
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127939	1	16.5		mg/L	4.00	20-Oct-09	20-Oct-09 15:06 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C1B-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734260
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127939	1	18.5		mg/L	4.00	20-Oct-09	20-Oct-09 15:06 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C2T-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734263
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127939	1	17.5		mg/L	4.00	20-Oct-09	20-Oct-09 15:06 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C2B-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734264
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127939	1	22.0		mg/L	4.00	20-Oct-09	20-Oct-09 15:07 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C6T-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734266
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127939	1	22.0		mg/L	4.00	20-Oct-09	20-Oct-09 15:07 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C6B-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734267
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127939	1	21.0		mg/L	4.00	20-Oct-09	20-Oct-09 15:07 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C3T-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734272
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127939	1	22.0		mg/L	4.00	20-Oct-09	20-Oct-09 15:07 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C3B-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734277
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127939	1	22.0		mg/L	4.00	20-Oct-09	20-Oct-09 15:08 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B3T-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734278
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127939	1	22.0		mg/L	4.00	20-Oct-09	20-Oct-09 15:08 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B3B-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734279
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127939	1	25.0		mg/L	4.00	20-Oct-09	20-Oct-09 15:08 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:48

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-DUP01-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734280
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127939	1	15.5		mg/L	4.00	20-Oct-09	20-Oct-09 15:08 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-DUP02-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734281
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127939	1	27.0		mg/L	4.00	20-Oct-09	20-Oct-09 15:09 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-DUP03-101809
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734282
Matrix: Water
%Moisture: n/a
Description: None
Collected: 18-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	127939	1	21.0		mg/L	4.00	20-Oct-09	20-Oct-09 15:09 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-D1T-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734284
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128003	1	ND		mg/L	4.00	21-Oct-09	21-Oct-09 11:01 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-D1B-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734285
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128003	1	7.00		mg/L	4.00	21-Oct-09	21-Oct-09 11:01 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-A1T-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734286
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Limit
Total Suspended Solids	SM 2540D	128003	1	ND		mg/L	4.00	21-Oct-09	21-Oct-09 11:01	JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-A1B-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734288
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128003	1	9.00		mg/L	4.00	21-Oct-09	21-Oct-09 11:01 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B2T-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734290
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128003	1	7.00		mg/L	4.00	21-Oct-09	21-Oct-09 11:01 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B2B-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734291
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128003	1	6.50		mg/L	4.00	21-Oct-09	21-Oct-09 11:02 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B1T-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734292
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128003	1	4.50		mg/L	4.00	21-Oct-09	21-Oct-09 11:02 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B1B-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734293
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128003	1	10.5		mg/L	4.00	21-Oct-09	21-Oct-09 11:02 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C4T-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734294
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128004	1	4.00		mg/L	4.00	21-Oct-09	21-Oct-09 14:32 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C4B-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734299
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128004	1	4.00		mg/L	4.00	21-Oct-09	21-Oct-09 14:32 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C5T-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734300
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128004	1	6.00		mg/L	4.00	21-Oct-09	21-Oct-09 14:33 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C5B-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734301
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128004	1	4.00		mg/L	4.00	21-Oct-09	21-Oct-09 14:33 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C1T-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734302
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128004	1	4.00		mg/L	4.00	21-Oct-09	21-Oct-09 14:34 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C1B-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734304
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128004	1	5.00		mg/L	4.00	21-Oct-09	21-Oct-09 14:34 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C2T-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734305
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128004	1	5.00		mg/L	4.00	21-Oct-09	21-Oct-09 14:34 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C2B-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734307
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128004	1	8.50		mg/L	4.00	21-Oct-09	21-Oct-09 14:34 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C6T-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734308
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128004	1	6.00		mg/L	4.00	21-Oct-09	21-Oct-09 14:35 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C6B-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734309
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128004	1	7.00		mg/L	4.00	21-Oct-09	21-Oct-09 14:35 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C3T-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734310
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128004	1	9.00		mg/L	4.00	21-Oct-09	21-Oct-09 14:35 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-C3B-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734311
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128004	1	5.00		mg/L	4.00	21-Oct-09	21-Oct-09 14:35 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B3T-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734312
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128004	1	4.00		mg/L	4.00	21-Oct-09	21-Oct-09 14:36 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-B3B-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734313
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128004	1	9.00		mg/L	4.00	21-Oct-09	21-Oct-09 14:36 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-DUP01-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734314
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128004	1	7.50		mg/L	4.00	21-Oct-09	21-Oct-09 14:36 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-DUP02-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734315
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128004	1	9.00		mg/L	4.00	21-Oct-09	21-Oct-09 14:36 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: Olin Enviromental Management

Client ID: OU2-TSS-DUP03-101909
Project: 20100867
Project ID: OLIN MCINTOSH/6107090035
Site: None
Lab ID: 20734316
Matrix: Water
%Moisture: n/a
Description: None
Collected: 19-Oct-09
Received: 20-Oct-09

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Total Suspended Solids	SM 2540D	128004	1	6.50		mg/L	4.00	21-Oct-09	21-Oct-09 14:37 JMA	

1 parameter(s) reported

Inorganics 10/22/2009 19:32:49

ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MDL denotes method detection limit

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Inorganics Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20100867

Parameter	Batch	Blank	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Total Suspended Solid	127923	< 4.00	mg/L	100.	97.5	98							7	80-120		20	
Total Suspended Solid	127924	< 4.00	mg/L	100.	97.0	97							16	80-120		20	
Total Suspended Solid	127939	< 4.00	mg/L	100.	103.	103							9	80-120		20	
Total Suspended Solid	128003	< 4.00	mg/L	100.	101.	101							0	80-120		20	
Total Suspended Solid	128004	< 4.00	mg/L	100.	91.0	91							12	80-120		20	

10/22/2009 19:32:50

*** denotes recovery outside of QC limits.**
ND denotes Not Detected at or above the adjusted reporting limit or PQL.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Definitions/Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20100867

Value	Description
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
U	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
B	This analyte was detected in the method blank.
E	The sample concentration is above the linear calibrated range of the analysis.
ND	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL	The adjusted method detection limit.
LCS(D)	Laboratory Control Sample (Duplicate).
MS(D)	Matrix Spike (Duplicate).
DUP	Sample Duplicate.
RPD	Relative Percent Difference.

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

20100867

1277256

Section A Required Client Information:

Company: MACTEC
Address: 3200 Town Pt. Dr. Ste 100
Kennesaw, GA 30144
Email To: cedraper@mactec.com
Phone: 7704213400 Fax: 7704213486
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Kdroberts@olin.com
Copy To:
Purchase Order No.: OEMC0016
Project Name: Olin McIntosh
Project Number: 6107090035

Section C Invoice Information:

Attention: Dennis Turner
Company Name: Olin Corporation
Address: 3855 N. Ocoee St. Ste 200
Pace Quote Reference: Cleveland, TN 37312
Pace Project Manager: Cindy Olavesen
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER CERCLA

Site Location STATE: AL

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Y/N = N

Analysis Test: TSS 160.2

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	OU2-TSS-D1B-101909	WT	G			10-19-09	1209		1	X								1		20734285
2	OU2-TSS-A1T-101909						1220		1	X								1		286
3	OU2-TSS-A1B-101909						1222		1	X								1		288
4	OU2-TSS-B2T-101909						1230		1	X								1		290
5	OU2-TSS-B2B-101909						1232		1	X								1		291
6	OU2-TSS-B1T-101909						1239		1	X								1		292
7	OU2-TSS-B1B-101909						1240		1	X								1		293
8	OU2-TSS-C4T-101909						1247		1	X								1		294
9	OU2-TSS-C4B-101909						1248		1	X								1		299
10	OU2-TSS-C5T-101909						1256		1	X								1		300
11	OU2-TSS-C5B-101909						1257		1	X								1		301
12	OU2-TSS-C1T-101909						1302		1	X								1		302

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Jeff Moore / MACTEC	10-19-09	1700							
	[signature]	10-20-09	1010	[signature]	10-20-09	1010	5.1	X	X	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jeff Moore

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/19/09

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

20100867 20--OLIN ENV

Pace Analytical

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Sample Condition Upon Re

Project #: 20

Courier: ☐ Pace Courier ☐ Hackbarth ☑ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals Intact: ☑Yes ☐No

Therometer Used: ☐ Therm Fisher IR 1 ☑ Therm Fisher IR 2 ☐ Therm Fisher IR 3

Type of Ice: ☑Wet Blue None

Samples on Ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining contents: IN 10/2009

Temp must be measured from Temperature blank when present

				Comments:
Temperature Blank Present"?	☑Yes	☐No	☐N/A	1
Chain of Custody Present:	☑Yes	☐No	☐N/A	2
Chain of Custody Complete:	☑Yes	☐No	☐N/A	3
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	4
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	5
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	6
Sufficient Volume:	☑Yes	☐No	☐N/A	7
Correct Containers Used:	☑Yes	☐No	☐N/A	8
Filtered vol. Rec. for Diss. tests	☐Yes	☐No	☑N/A	9
Sample Labels match COC:	☑Yes	☐No	☐N/A	10
All containers received within manafacture's precautionary and/or expiration dates.	☑Yes	☐No	☐N/A	11
All containers needing preservation have been checked (except VOA, coliform, & O&G).	☑Yes	☐No	☐N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Samples checked for dechlorination:	☐Yes	☑No	☐N/A	14
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	14
Trip Blank Present:	☐Yes	☑No	☐N/A	16
Trip Blank Custody Seals Present	☐Yes	☑No	☐N/A	17
Pace Trip Blank Lot # (if purchased): N/A				18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

ALLC003rev.05, 12Jun2009 - mod

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 700-42347-1

Job Description: Olin McIntosh OU-2 6107090036

For:
MACTEC Engineering and Consulting Inc
3200 Town Point Drive Northwest
Suite 100
Kennesaw, GA 30144

Attention: Mr. David Knaub

Amanda Catrett

Approved for release.
Amanda Catrett
Project Manager I
11/5/2009 4:26 PM

Amanda Catrett
Project Manager I
amanda.catrett@testamericainc.com
11/05/2009

cc: Cynthia Draper
Heidi Fogell

Job Narrative
700-42347-1

General Chemistry
Method(s) 9060: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch74983 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. The matix spike/ matrix spike duplicate were also just above the calibration range and there was insufficient sample volume to rerun.

Method(s) 415.1, 9060: The matrix spike and matrix spike duplicate were just above the calibration range. There was insufficient sample volume for reanalysis.

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42347-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
700-42347-11	**SDPW1-0-4-0909**					
Dissolved						
Total Organic Carbon-Dissolved		31	B	1.0	mg/L	9060
700-42347-12	**SDPW1-4-8-0909**					
Dissolved						
Total Organic Carbon-Dissolved		26	B	1.0	mg/L	9060
700-42347-13	**SDPW1-8-18-0909**					
Dissolved						
Total Organic Carbon-Dissolved		37	B	1.0	mg/L	9060
700-42347-14	**SDPW2-0-4-0909**					
Dissolved						
Total Organic Carbon-Dissolved		42	B	1.0	mg/L	9060
700-42347-15	**SDPW2-4-8-0909**					
Dissolved						
Total Organic Carbon-Dissolved		20	B	1.0	mg/L	9060
700-42347-16	**SDPW2-8-18-0909**					
Dissolved						
Total Organic Carbon-Dissolved		19	B	1.0	mg/L	9060
700-42347-17	**SDPW3-0-4-0909**					
Dissolved						
Total Organic Carbon-Dissolved		33	B	1.0	mg/L	9060
700-42347-18	**SDPW3-4-8-0909**					
Dissolved						
Total Organic Carbon-Dissolved		31		1.0	mg/L	9060

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42347-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
700-42347-19	**SDPW3-8-18-0909**					
Dissolved						
Total Organic Carbon-Dissolved		42		1.0	mg/L	9060
700-42347-20	**SDPWDUP2-0-4-0909**					
Dissolved						
Total Organic Carbon-Dissolved		57	B	1.0	mg/L	9060
700-42347-21	**SDPWDUP2-4-8-0909**					
Dissolved						
Total Organic Carbon-Dissolved		20	B	1.0	mg/L	9060
700-42347-22	**SDPWDUP2-8-18-0909**					
Dissolved						
Total Organic Carbon-Dissolved		25	B	1.0	mg/L	9060
700-42347-23	**SDPW8-0-4-0909**					
Dissolved						
Total Organic Carbon-Dissolved		120		2.0	mg/L	9060
700-42347-24	**SDPW8-4-8-0909**					
Dissolved						
Total Organic Carbon-Dissolved		150		2.0	mg/L	9060
700-42347-25	**SDPW8-8-18-0909**					
Dissolved						
Total Organic Carbon-Dissolved		85	B	1.0	mg/L	9060

METHOD SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42347-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Organic Carbon, Total (TOC)	TAL MOB	SW846 9060	
Sample Filtration	TAL MOB		FILTRATION

Lab References:

TAL MOB = TestAmerica Mobile

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: MCTEC Engineering and Consulting Inc

Job Number: 700-42347-1

Method	Analyst	Analyst ID
SW846 9060	Bradley, Katie	KB

SAMPLE SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42347-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
700-42347-11	SDPW1-0-4-0909	Water	10/26/2009 0900	10/26/2009 0944
700-42347-12	SDPW1-4-8-0909	Water	10/26/2009 0900	10/26/2009 0944
700-42347-13	SDPW1-8-18-0909	Water	10/26/2009 0900	10/26/2009 0944
700-42347-14	SDPW2-0-4-0909	Water	10/26/2009 0900	10/26/2009 0944
700-42347-15	SDPW2-4-8-0909	Water	10/26/2009 0900	10/26/2009 0944
700-42347-16	SDPW2-8-18-0909	Water	10/26/2009 0900	10/26/2009 0944
700-42347-17	SDPW3-0-4-0909	Water	10/26/2009 0900	10/26/2009 0944
700-42347-17MS	SDPW3-0-4-0909-MS	Water	10/26/2009 0900	10/26/2009 0944
700-42347-17MSD	SDPW3-0-4-0909-MSD	Water	10/26/2009 0900	10/26/2009 0944
700-42347-18	SDPW3-4-8-0909	Water	10/26/2009 0900	10/26/2009 0944
700-42347-18MS	SDPW3-4-8-0909-MS	Water	10/26/2009 0900	10/26/2009 0944
700-42347-18MSD	SDPW3-4-8-0909-MSD	Water	10/26/2009 0900	10/26/2009 0944
700-42347-19	SDPW3-8-18-0909	Water	10/26/2009 0900	10/26/2009 0944
700-42347-19MS	SDPW3-8-18-0909-MS	Water	10/26/2009 0900	10/26/2009 0944
700-42347-19MSD	SDPW3-8-18-0909-MSD	Water	10/26/2009 0900	10/26/2009 0944
700-42347-20	SDPWDUP2-0-4-0909	Water	10/26/2009 0900	10/26/2009 0944
700-42347-21	SDPWDUP2-4-8-0909	Water	10/26/2009 0900	10/26/2009 0944
700-42347-22	SDPWDUP2-8-18-0909	Water	10/26/2009 0900	10/26/2009 0944
700-42347-23	SDPW8-0-4-0909	Water	10/26/2009 0900	10/26/2009 0944
700-42347-24	SDPW8-4-8-0909	Water	10/26/2009 0900	10/26/2009 0944
700-42347-25	SDPW8-8-18-0909	Water	10/26/2009 0900	10/26/2009 0944

SAMPLE RESULTS

General Chemistry

Client Sample ID: **SDPW1-0-4-0909**

Lab Sample ID: 700-42347-11
Client Matrix: Water

Date Sampled: 10/26/2009 0900
Date Received: 10/26/2009 0944

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	31	B	mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74975 Date Analyzed: 10/29/2009 1745

General Chemistry

Client Sample ID: **SDPW1-4-8-0909**

Lab Sample ID: 700-42347-12

Client Matrix: Water

Date Sampled: 10/26/2009 0900

Date Received: 10/26/2009 0944

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	26	B	mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74975 Date Analyzed: 10/29/2009 1745

General Chemistry

Client Sample ID: **SDPW1-8-18-0909**

Lab Sample ID: 700-42347-13

Client Matrix: Water

Date Sampled: 10/26/2009 0900

Date Received: 10/26/2009 0944

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	37	B	mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74975 Date Analyzed: 10/29/2009 1745

General Chemistry

Client Sample ID: **SDPW2-0-4-0909**

Lab Sample ID: 700-42347-14

Client Matrix: Water

Date Sampled: 10/26/2009 0900

Date Received: 10/26/2009 0944

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	42	B	mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74975 Date Analyzed: 10/29/2009 1745

General Chemistry

Client Sample ID: **SDPW2-4-8-0909**

Lab Sample ID: 700-42347-15

Client Matrix: Water

Date Sampled: 10/26/2009 0900

Date Received: 10/26/2009 0944

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	20	B	mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74975 Date Analyzed: 10/29/2009 1745

General Chemistry

Client Sample ID: **SDPW2-8-18-0909**

Lab Sample ID: 700-42347-16
Client Matrix: Water

Date Sampled: 10/26/2009 0900
Date Received: 10/26/2009 0944

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	19	B	mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74975 Date Analyzed: 10/29/2009 1745

General Chemistry

Client Sample ID: **SDPW3-0-4-0909**

Lab Sample ID: 700-42347-17
Client Matrix: Water

Date Sampled: 10/26/2009 0900
Date Received: 10/26/2009 0944

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	33	B	mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74975 Date Analyzed: 10/29/2009 1745

General Chemistry

Client Sample ID: **SDPW3-4-8-0909**

Lab Sample ID: 700-42347-18

Client Matrix: Water

Date Sampled: 10/26/2009 0900

Date Received: 10/26/2009 0944

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	31		mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74983 Date Analyzed: 10/30/2009 1435

General Chemistry

Client Sample ID: **SDPW3-8-18-0909**

Lab Sample ID: 700-42347-19
Client Matrix: Water

Date Sampled: 10/26/2009 0900
Date Received: 10/26/2009 0944

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	42		mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74983 Date Analyzed: 10/30/2009 1435

General Chemistry

Client Sample ID: **SDPWDUP2-0-4-0909**

Lab Sample ID: 700-42347-20
Client Matrix: Water

Date Sampled: 10/26/2009 0900
Date Received: 10/26/2009 0944

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	57	B	mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74975 Date Analyzed: 10/29/2009 1745

General Chemistry

Client Sample ID: **SDPWDUP2-4-8-0909**

Lab Sample ID: 700-42347-21
Client Matrix: Water

Date Sampled: 10/26/2009 0900
Date Received: 10/26/2009 0944

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	20	B	mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74975 Date Analyzed: 10/29/2009 1745

General Chemistry

Client Sample ID: **SDPWDUP2-8-18-0909**

Lab Sample ID: 700-42347-22

Client Matrix: Water

Date Sampled: 10/26/2009 0900

Date Received: 10/26/2009 0944

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	25	B	mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74975 Date Analyzed: 10/29/2009 1745

General Chemistry

Client Sample ID: **SDPW8-0-4-0909**

Lab Sample ID: 700-42347-23
Client Matrix: Water

Date Sampled: 10/26/2009 0900
Date Received: 10/26/2009 0944

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	120		mg/L	0.34	2.0	2.0	9060

Analysis Batch: 700-74983 Date Analyzed: 10/30/2009 1435

General Chemistry

Client Sample ID: SDPW8-4-8-0909

Lab Sample ID: 700-42347-24

Client Matrix: Water

Date Sampled: 10/26/2009 0900

Date Received: 10/26/2009 0944

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	150		mg/L	0.34	2.0	2.0	9060

Analysis Batch: 700-74983 Date Analyzed: 10/30/2009 1435

General Chemistry

Client Sample ID: **SDPW8-8-18-0909**

Lab Sample ID: 700-42347-25

Client Matrix: Water

Date Sampled: 10/26/2009 0900

Date Received: 10/26/2009 0944

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	85	B	mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74975 Date Analyzed: 10/29/2009 1745

DATA REPORTING QUALIFIERS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42347-1

Lab Section	Qualifier	Description
General Chemistry		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42347-1

Method Blank - Batch: 700-74975

Method: 9060
Preparation: N/A

Lab Sample ID: MB 700-74973/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/29/2009 1745
Date Prepared: N/A

Analysis Batch: 700-74975
Prep Batch: N/A
Units: mg/L

Instrument ID: Shimadzu Liquid TOC
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	RL
Total Organic Carbon-Dissolved	0.248	J	0.17	1.0

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-74975

Method: 9060
Preparation: N/A

MS Lab Sample ID: 700-42347-17
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/29/2009 1745
Date Prepared: N/A

Analysis Batch: 700-74975
Prep Batch: N/A

Instrument ID: Shimadzu Liquid TOC
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

MSD Lab Sample ID: 700-42347-17
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/29/2009 1745
Date Prepared: N/A

Analysis Batch: 700-74975
Prep Batch: N/A

Instrument ID: Shimadzu Liquid TOC
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon-Dissolved	109	110	80 - 120	1	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42347-1

Method Blank - Batch: 700-74983

Method: 9060
Preparation: N/A

Lab Sample ID: MB 700-74979/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/30/2009 1435
Date Prepared: N/A

Analysis Batch: 700-74983
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	RL
Total Organic Carbon-Dissolved	1.0	U	0.17	1.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42347-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-74983

Method: 9060
Preparation: N/A

MS Lab Sample ID:	700-42347-18	Analysis Batch: 700-74983	Instrument ID: No Equipment Assigned
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 25 mL
Date Analyzed:	10/30/2009 1435		Final Weight/Volume: 25 mL
Date Prepared:	N/A		

MSD Lab Sample ID:	700-42347-18	Analysis Batch: 700-74983	Instrument ID: No Equipment Assigned
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 25 mL
Date Analyzed:	10/30/2009 1435		Final Weight/Volume: 25 mL
Date Prepared:	N/A		

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon-Dissolved	130	128	80 - 120	1	25	F	F

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-74983

Method: 9060
Preparation: N/A

MS Lab Sample ID:	700-42347-19	Analysis Batch: 700-74983	Instrument ID: No Equipment Assigned
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 25 mL
Date Analyzed:	10/30/2009 1435		Final Weight/Volume: 25 mL
Date Prepared:	N/A		

MSD Lab Sample ID:	700-42347-19	Analysis Batch: 700-74983	Instrument ID: No Equipment Assigned
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 25 mL
Date Analyzed:	10/30/2009 1435		Final Weight/Volume: 25 mL
Date Prepared:	N/A		

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon-Dissolved	107	110	80 - 120	NC	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number

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Alternate Laboratory Name/Location:
Phone:
Fax:

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Olin	PROJECT NO.	PROJECT LOCATION (STATE)
(LAB) PROJECT MANAGER	P. O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME: Mactec	CLIENT EMAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (If applicable)	SAMPLER'S SIGNATURE: [illegible]	

PAGE | OF

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	DOC									REMARKS
								None	PRESERVATIVE								
10-26-09	1615	SDPW11-0-4-0909			X			X									
	1620	SDPW11-4-8-0909			X			X									
	1623	SDPW11-8-18-0909			X			X									
	1630	SDPW12-0-4-0909			X			X									
	1633	SDPW12-4-8-0909			X			X									
	1639	SDPW12-8-18-0909			X			X									
	1655	SDPWDUP01-0-4-0909			X			X									
	1657	SDPWDUP01-4-8-0909			X			X									
	1659	SDPWDUP01-8-18-0909			X			X									
	1505	SDPWDUP02-0-4-0909			X			X									
	1507	SDPWDUP02-4-8-0909			X			X									
	1512	SDPWDUP02-8-18-0909			X			X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	LOG NO. 700-42347 700-42348	LABORATORY REMARKS: SAMPLES GENERATED IN LAB

Original - Return to Laboratory with Sample(s)

11/05/2009

Serial Number

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Alternate Laboratory Name/Location:
Phone:
Fax:

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Olin		
(LAB) PROJECT MANAGER	P. O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME: Mactec	CLIENT EMAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (If applicable)	SAMPLER'S SIGNATURE: [signature]	

PAGE ___ OF ___

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT...)

REQUIRED ANALYSES: None DOC; PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	SOLID OR SEMISOLID	None DOC	REMARKS
102609	1400	SDPW1-0-4-0909	X	X	
	1405	SDPW1-4-8-0909	X	X	
	1408	SDPW1-8-18-0909	X	X	
	1425	SDPW02-0-4-0909	X	X	
	1430	SDPW02-4-8-0909	X	X	
	1432	SDPW02-8-18-0909	X	X	
	1448	SDPW03-0-4-0909	X	X	MS/MSD
	1445	SDPW03-4-8-0909	X	X	MS/MSD
	1452	SDPW03-8-18-0909	X	X	MS/MSD
	1310	SDPW08-0-4-0909	X	X	
	1315	SDPW08-4-8-0909	X	X	
	1318	SDPW08-8-18-0909	X	X	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
					700-42347	SAMPLES GENERATED IN LAB

Original - Return to Laboratory with Sample(s)

11/05/2009

Page 30 of 31

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Fax: (251) 666-6696

Alternate Laboratory Name/Location:
Phone:
Fax:

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Olin McIntosh OU-2	PROJECT NO.: 410709 0036	PROJECT LOCATION (STATE): AL
(LAB) PROJECT MANAGER: Charles Newton	P. O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: Keith Roberts	CLIENT PHONE: 423 336 4388	CLIENT FAX: 423 336 4166
CLIENT NAME: Keith Roberts, OWM	CLIENT EMAIL:	
CLIENT ADDRESS: 3855 N Ocoee St Cleveland TN 37312		
COMPANY CONTRACTING THIS WORK (if applicable): MACTEC	SAMPLER'S SIGNATURE:	

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSES: DOC (SM 5310B)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
9/23/09	09:15	SDPW1-092309	G		X			X	2 cores
9/23/09	13:10	SDPW2-092309	G		X			X	2 cores
9/23/09	12:00	SDPW DUP02-092309	G		X			X	1 core
9/23/09	15:45	SDPW3-092309	G		X			X	2 cores
9/23/09	15:45	SDPW3-092309 (MS/MSD)	G		X			X	1 core
9/24/09	13:25	SDPW8-092409	G		X			X	2 cores

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	9-25-09	15:20	Jihan	9/25/09	1630			

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	9/25/09	15:20		9/25/09	1630			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
	9/25/09	16:30			700-42347 ~~700-41966~~ 10-26-09	0.0°C

Original - Return to Laboratory with Sample(s)

11/05/2009

Page 31 of 31

DAVE- Please Attached this e-mail to the TA-Mobile Lab Report ~~that~~ for the Porewater DOC results

Thanks
Paul

Brafford, Paul

From: Brafford, Paul
Sent: Tuesday, October 13, 2009 7:03 PM
To: 'Newton, Charles'
Cc: Fogell, Heidi; Draper, Cynthia; Mayila, Ferdinand
Subject: Instructions for Sectioning Sediment Cores for Extracting Porewater; Olin-McIntosh; MACTEC PN 6107090036; October 13, 2009
Attachments: TA Mobile_Sediment for Porewater DOC 101209.pdf

Charles,

Thanks for your patience while we prepared instructions for sectioning the sediment cores for the purpose of extracting porewater for the DOC analyses. The attachment includes a table and figure which should provide visual aids in understanding the core sectioning requirements.

Instructions

1. There are 6 sample locations identified in the table and 2 (replicate) sediment cores were submitted to the lab for each sample location.
2. There were 3 sample locations where field QC samples (duplicates and MS/MSDs) were collected and 1 core was submitted to the lab for each location.
3. The extracted porewater samples should be named as identified in the Sample Identification column of the Table which corresponds to a specific core depth interval.
4. The cores should remain frozen during the core sectioning activities.
5. The Target Interval Depth column in the table represents the field depth the core was advanced (pushed).
6. The Adjusted Interval Depth column represents the core section interval depth that the lab will **actually cut**. During collection of the sediment core, there is compaction of the sediment in the core tube; therefore the Adjusted Interval Depth is shorter than the Target Interval Depth.
7. After sectioning and centrifuging the core intervals, the extracted porewater from the same sample interval of the replicate cores of each sample should be combined. For example, sample interval SDPW1-0-4-0909 (Adjusted Interval Depth of 0 – 3.3 inches) will have 2 core intervals of 0 – 3.3 inches where the porewater should be combined after centrifuging.

In summary, after sectioning and centrifuging there should be a total of 18 porewater interval samples, 6 duplicate sample intervals, and 3 MS/MSD sample intervals.

I know this can be confusing, so I will call you Wednesday morning to review this information.

Thanks,
Paul

Wm. Paul Brafford, CHMM | Principal Scientist | Chemistry Group Leader | Geosciences
MACTEC Engineering and Consulting, Inc. | 3200 Town Point Drive, Kennesaw, GA 30144
Office 770.421.3303 | **Fax** 770.421.3486
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ANALYTICAL REPORT

Job Number: 700-41709-1

Job Description: Olin McIntosh OU-2 6107090036

For:
MACTEC Engineering and Consulting Inc
3200 Town Point Drive Northwest
Suite 100
Kennesaw, GA 30144

Attention: Mr. David Knaub

Approved for release.
Amanda Catrett
Project Manager I
11/3/2009 3:46 PM

Amanda Catrett
Project Manager I
amanda.catrett@testamericainc.com
11/03/2009

cc: Cynthia Draper
Heidi Fogell

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
700-41709-3	**SDCR12-CC-092509**				
Mercury		0.38	0.21	mg/Kg	7471A
Percent Moisture		70	0.10	%	2540G
Percent Solids		30	0.10	%	2540G
700-41709-4	**SDCR12-CD-092509**				
Mercury		0.68	0.33	mg/Kg	7471A
Percent Moisture		69	0.10	%	2540G
Percent Solids		31	0.10	%	2540G
700-41709-5	**SDCR12-CE-092509**				
Mercury		0.17	0.037	mg/Kg	7471A
Percent Moisture		62	0.10	%	2540G
Percent Solids		38	0.10	%	2540G
700-41709-6	**SDCR12-CF-092509**				
Mercury		0.094	0.040	mg/Kg	7471A
Percent Moisture		64	0.10	%	2540G
Percent Solids		36	0.10	%	2540G
700-41709-7	**SDCR13-CA-092509**				
Mercury		18	0.57	mg/Kg	7471A
Percent Moisture		74	0.10	%	2540G
Percent Solids		26	0.10	%	2540G
700-41709-8	**SDCR13-CB-092509**				
Mercury		0.30	0.046	mg/Kg	7471A
Percent Moisture		68	0.10	%	2540G
Percent Solids		32	0.10	%	2540G
700-41709-9	**SDCR13-CC-092509**				
Mercury		0.27	0.24	mg/Kg	7471A
Percent Moisture		72	0.10	%	2540G
Percent Solids		28	0.10	%	2540G

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
700-41709-10	**SDCR13-CD-092509**					
Mercury		0.17		0.037	mg/Kg	7471A
Percent Moisture		64		0.10	%	2540G
Percent Solids		36		0.10	%	2540G
700-41709-11	**SDCR13-CE-092509**					
Mercury		0.092		0.042	mg/Kg	7471A
Percent Moisture		60		0.10	%	2540G
Percent Solids		40		0.10	%	2540G
700-41709-12	**SDCR-CDUP10-092609**					
Mercury		20		0.71	mg/Kg	7471A
Percent Moisture		74		0.10	%	2540G
Percent Solids		26		0.10	%	2540G
700-41709-13	**SDCR9-CA-092609**					
2,4'-DDE		960		130	ug/Kg	8081A
2,4'-DDD		600		130	ug/Kg	8081A
Mercury		120		5.8	mg/Kg	7471A
Percent Moisture		74		0.10	%	2540G
Percent Solids		26		0.10	%	2540G
SPLP East						
Mercury		0.030		0.020	mg/L	7470A
700-41709-14	**SDCR9-CB-092609**					
4,4'-DDT		21	J	45	ug/Kg	8081A
4,4'-DDD		4.8	J	45	ug/Kg	8081A
2,4'-DDT		38	J	45	ug/Kg	8081A
2,4'-DDE		400		45	ug/Kg	8081A
2,4'-DDD		550		45	ug/Kg	8081A
Mercury		170		3.5	mg/Kg	7471A
Percent Moisture		71		0.10	%	2540G
Percent Solids		29		0.10	%	2540G

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
700-41709-15	**SDCR9-CC-092609**					
4,4'-DDD		16		9.1	ug/Kg	8081A
2,4'-DDD		8.7	J	9.1	ug/Kg	8081A
Mercury		15		0.48	mg/Kg	7471A
Percent Moisture		64		0.10	%	2540G
Percent Solids		36		0.10	%	2540G
700-41709-16	**SDCR9-CD-092609**					
4,4'-DDD		21		8.0	ug/Kg	8081A
Mercury		3.1		0.29	mg/Kg	7471A
Percent Moisture		59		0.10	%	2540G
Percent Solids		41		0.10	%	2540G
700-41709-17	**SDCR9-CE-092609**					
4,4'-DDD		3.2	J	7.7	ug/Kg	8081A
Mercury		0.25		0.18	mg/Kg	7471A
Percent Moisture		57		0.10	%	2540G
Percent Solids		43		0.10	%	2540G
700-41709-18	**SDCR-CDUP07-092609**					
4,4'-DDT		42	J	53	ug/Kg	8081A
4,4'-DDD		5.5	J	53	ug/Kg	8081A
2,4'-DDE		460		53	ug/Kg	8081A
Mercury		220		18	mg/Kg	7471A
Percent Moisture		75		0.10	%	2540G
Percent Solids		25		0.10	%	2540G
700-41709-19	**SDCR-CDUP08-092609**					
Mercury		24		2.4	mg/Kg	7471A
Percent Moisture		77		0.10	%	2540G
Percent Solids		23		0.10	%	2540G
700-41709-20	**SDCR10-CA-0902609**					
Mercury		19		1.8	mg/Kg	7471A
Percent Moisture		77		0.10	%	2540G
Percent Solids		23		0.10	%	2540G

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
700-41709-21	**SDCR10-CB-0902609**				
Mercury		25	5.0	mg/Kg	7471A
Percent Moisture		71	0.10	%	2540G
Percent Solids		29	0.10	%	2540G
700-41709-22	**SDCR10-CC-0902609**				
Mercury		24	6.2	mg/Kg	7471A
Percent Moisture		71	0.10	%	2540G
Percent Solids		29	0.10	%	2540G
700-41709-23	**SDCR10-CD-0902609**				
Mercury		30	6.0	mg/Kg	7471A
Percent Moisture		65	0.10	%	2540G
Percent Solids		35	0.10	%	2540G
700-41709-24	**SDCR10-CE-0902609**				
Mercury		2.6	0.35	mg/Kg	7471A
Percent Moisture		58	0.10	%	2540G
Percent Solids		42	0.10	%	2540G
700-41709-25	**SDCR-CDUP09-092609**				
Mercury		0.38	0.13	mg/Kg	7471A
Percent Moisture		39	0.10	%	2540G
Percent Solids		61	0.10	%	2540G
700-41709-28	**SDCR11-CC-092609**				
Mercury		0.14	0.027	mg/Kg	7471A
Percent Moisture		53	0.10	%	2540G
Percent Solids		47	0.10	%	2540G
700-41709-29	**SDCR11-CD-092609**				
Mercury		0.13	0.024	mg/Kg	7471A
Percent Moisture		40	0.10	%	2540G
Percent Solids		60	0.10	%	2540G

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
700-41709-30	**SDCR11-CE-092609**				
Mercury		1.3	0.14	mg/Kg	7471A
Percent Moisture		35	0.10	%	2540G
Percent Solids		65	0.10	%	2540G
700-41709-31	**SDCR11-CF-092609**				
Mercury		0.066	0.023	mg/Kg	7471A
Percent Moisture		37	0.10	%	2540G
Percent Solids		63	0.10	%	2540G
700-41709-32	**SDCR12-CG-092509**				
Mercury		0.088	0.046	mg/Kg	7471A
Percent Moisture		62	0.10	%	2540G
Percent Solids		38	0.10	%	2540G

METHOD SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Organochlorine Pesticides (GC)	TAL MOB	SW846 8081A	
Ultrasonic Extraction	TAL MOB		SW846 3550B
SPLP Mercury	TAL MOB	SW846 7470A	
SPLP Extraction	TAL MOB		SW846 1312
Preparation, Mercury	TAL MOB		SW846 7470A
Mercury (CVAA)	TAL MOB	SW846 7471A	
Preparation, Mercury	TAL MOB		SW846 7471A
2540G	TAL MOB	SM18 2540G	
General Sub Contract Method	TAL BUR	Subcontract	

Lab References:

TAL BUR = TestAmerica Burlington

TAL MOB = TestAmerica Mobile

Method References:

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Method	Analyst	Analyst ID
SW846 8081A	Bendolph, Jackie	JB
SW846 7470A	Mathews, Robert	RDM
SW846 7471A	Mathews, Robert	RDM
SM18 2540G	Phanthapannha, Charles F	CFP

SAMPLE SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
700-41709-1	SDCR12-CA-092509	Solid	09/25/2009 1510	09/26/2009 1656
700-41709-2	SDCR12-CB-092509	Solid	09/25/2009 1520	09/26/2009 1656
700-41709-3	SDCR12-CC-092509	Solid	09/25/2009 1519	09/26/2009 1656
700-41709-4	SDCR12-CD-092509	Solid	09/25/2009 1529	09/26/2009 1656
700-41709-5	SDCR12-CE-092509	Solid	09/25/2009 1540	09/26/2009 1656
700-41709-5MS	SDCR12-CE-092509	Solid	09/25/2009 1540	09/26/2009 1656
700-41709-5MSD	SDCR12-CE-092509	Solid	09/25/2009 1540	09/26/2009 1656
700-41709-6	SDCR12-CF-092509	Solid	09/25/2009 1549	09/26/2009 1656
700-41709-7	SDCR13-CA-092509	Solid	09/26/2009 0938	09/26/2009 1656
700-41709-8	SDCR13-CB-092509	Solid	09/26/2009 0948	09/26/2009 1656
700-41709-9	SDCR13-CC-092509	Solid	09/26/2009 0957	09/26/2009 1656
700-41709-10	SDCR13-CD-092509	Solid	09/26/2009 1003	09/26/2009 1656
700-41709-11	SDCR13-CE-092509	Solid	09/26/2009 1012	09/26/2009 1656
700-41709-12	SDCR-CDUP10-092609	Solid	09/26/2009 1200	09/26/2009 1656
700-41709-13	SDCR9-CA-092609	Solid	09/26/2009 1119	09/26/2009 1656
700-41709-14	SDCR9-CB-092609	Solid	09/26/2009 1127	09/26/2009 1656
700-41709-15	SDCR9-CC-092609	Solid	09/26/2009 1132	09/26/2009 1656
700-41709-16	SDCR9-CD-092609	Solid	09/26/2009 1140	09/26/2009 1656
700-41709-17	SDCR9-CE-092609	Solid	09/26/2009 1148	09/26/2009 1656
700-41709-18	SDCR-CDUP07-092609	Solid	09/26/2009 1200	09/26/2009 1656
700-41709-19	SDCR-CDUP08-092609	Solid	09/26/2009 1200	09/26/2009 1656
700-41709-20	SDCR10-CA-0902609	Solid	09/26/2009 1321	09/26/2009 1656
700-41709-21	SDCR10-CB-0902609	Solid	09/26/2009 1327	09/26/2009 1656
700-41709-22	SDCR10-CC-0902609	Solid	09/26/2009 1336	09/26/2009 1656
700-41709-23	SDCR10-CD-0902609	Solid	09/26/2009 1342	09/26/2009 1656
700-41709-24	SDCR10-CE-0902609	Solid	09/26/2009 1348	09/26/2009 1656
700-41709-24MS	SDCR10-CE-0902609	Solid	09/26/2009 1348	09/26/2009 1656
700-41709-24MSD	SDCR10-CE-0902609	Solid	09/26/2009 1348	09/26/2009 1656
700-41709-25	SDCR-CDUP09-092609	Solid	09/26/2009 1200	09/26/2009 1656
700-41709-26	SDCR11-CA-092609	Solid	09/26/2009 1446	09/26/2009 1656
700-41709-27	SDCR11-CB-092609	Solid	09/26/2009 1458	09/26/2009 1656
700-41709-28	SDCR11-CC-092609	Solid	09/26/2009 1450	09/26/2009 1656
700-41709-29	SDCR11-CD-092609	Solid	09/26/2009 1455	09/26/2009 1656
700-41709-30	SDCR11-CE-092609	Solid	09/26/2009 1500	09/26/2009 1656
700-41709-31	SDCR11-CF-092609	Solid	09/26/2009 1505	09/26/2009 1656
700-41709-32	SDCR12-CG-092509	Solid	09/25/2009 1559	09/26/2009 1656

SAMPLE RESULTS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR13-CA-092509**

Lab Sample ID: 700-41709-7
Client Matrix: Solid
% Moisture: 74.3

Date Sampled: 09/26/2009 0938
Date Received: 09/26/2009 1656

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74174		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73857		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/14/2009 0610			Injection Volume:	1.0 uL
Date Prepared:	10/06/2009 0847			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		51	U	8.4	51
4,4'-DDE		51	U	4.7	51
4,4'-DDD		51	U	5.3	51
2,4'-DDT		51	U	8.4	51
2,4'-DDE		51	U	4.7	51
2,4'-DDD		51	U	5.3	51

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	73		30 - 150
Tetrachloro-m-xylene	48		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR13-CB-092509**

Lab Sample ID: 700-41709-8
Client Matrix: Solid
% Moisture: 68.1

Date Sampled: 09/26/2009 0948
Date Received: 09/26/2009 1656

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74174		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73857		Initial Weight/Volume:	30.0 g
Dilution:	50			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/12/2009 2050			Injection Volume:	1.0 uL
Date Prepared:	10/06/2009 0847			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		100	U	17	100
4,4'-DDE		100	U	9.4	100
4,4'-DDD		100	U	11	100
2,4'-DDT		100	U	17	100
2,4'-DDE		100	U	9.4	100
2,4'-DDD		100	U	11	100

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	47		30 - 150
Tetrachloro-m-xylene	29	X	30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR13-CC-092509**

Lab Sample ID: 700-41709-9
Client Matrix: Solid
% Moisture: 72.2

Date Sampled: 09/26/2009 0957
Date Received: 09/26/2009 1656

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74174		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73857		Initial Weight/Volume:	30.0 g
Dilution:	5.0			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/14/2009 0743			Injection Volume:	1.0 uL
Date Prepared:	10/06/2009 0847			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		12	U	1.9	12
4,4'-DDE		12	U	1.1	12
4,4'-DDD		12	U	1.2	12
2,4'-DDT		12	U	1.9	12
2,4'-DDE		12	U	1.1	12
2,4'-DDD		12	U	1.2	12

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	49		30 - 150
Tetrachloro-m-xylene	37		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR13-CD-092509**

Lab Sample ID: 700-41709-10
Client Matrix: Solid
% Moisture: 64.4

Date Sampled: 09/26/2009 1003
Date Received: 09/26/2009 1656

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74174		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73857		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/14/2009 2029			Injection Volume:	1.0 uL
Date Prepared:	10/06/2009 0847			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		37	U	6.1	37
4,4'-DDE		37	U	3.4	37
4,4'-DDD		37	U	3.8	37
2,4'-DDT		37	U	6.1	37
2,4'-DDE		37	U	3.4	37
2,4'-DDD		37	U	3.8	37

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	61		30 - 150
Tetrachloro-m-xylene	39		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR13-CE-092509**

Lab Sample ID: 700-41709-11
Client Matrix: Solid
% Moisture: 59.6

Date Sampled: 09/26/2009 1012
Date Received: 09/26/2009 1656

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74174		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73857		Initial Weight/Volume:	30.0 g
Dilution:	10			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/15/2009 2325			Injection Volume:	1.0 uL
Date Prepared:	10/06/2009 0847			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		16	U	2.7	16
4,4'-DDE		16	U	1.5	16
4,4'-DDD		16	U	1.7	16
2,4'-DDT		16	U	2.7	16
2,4'-DDE		16	U	1.5	16
2,4'-DDD		16	U	1.7	16

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	84		30 - 150
Tetrachloro-m-xylene	60		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR-CDUP10-092609**

Lab Sample ID: 700-41709-12
Client Matrix: Solid
% Moisture: 73.6

Date Sampled: 09/26/2009 1200
Date Received: 09/26/2009 1656

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74174		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73857		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	10.0 mL
Date Analyzed:	10/14/2009 1958			Injection Volume:	1.0 uL
Date Prepared:	10/06/2009 0847			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		100	U	16	100
4,4'-DDE		100	U	9.1	100
4,4'-DDD		100	U	10	100
2,4'-DDT		100	U	16	100
2,4'-DDE		100	U	9.1	100
2,4'-DDD		100	U	10	100

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	102		30 - 150
Tetrachloro-m-xylene	57		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR9-CA-092609**

Lab Sample ID: 700-41709-13
Client Matrix: Solid
% Moisture: 73.7

Date Sampled: 09/26/2009 1119
Date Received: 09/26/2009 1656

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74174		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73857		Initial Weight/Volume:	30.0 g
Dilution:	50			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/15/2009 2357			Injection Volume:	1.0 uL
Date Prepared:	10/06/2009 0911			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		130	U	21	130
4,4'-DDE		130	U	11	130
4,4'-DDD		130	U	13	130
2,4'-DDT		130	U	21	130
2,4'-DDE		960		11	130
2,4'-DDD		600		13	130

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	453	X	30 - 150
Tetrachloro-m-xylene	82		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR9-CB-092609**

Lab Sample ID: 700-41709-14
Client Matrix: Solid
% Moisture: 70.8

Date Sampled: 09/26/2009 1127
Date Received: 09/26/2009 1656

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74174		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73857		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/14/2009 2131			Injection Volume:	
Date Prepared:	10/06/2009 0911			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		21	J	7.4	45
4,4'-DDE		45	U	4.1	45
4,4'-DDD		4.8	J	4.7	45
2,4'-DDT		38	J	7.4	45
2,4'-DDE		400		4.1	45
2,4'-DDD		550		4.7	45

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	185	X	30 - 150
Tetrachloro-m-xylene	43		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR9-CC-092609**

Lab Sample ID: 700-41709-15
Client Matrix: Solid
% Moisture: 63.7

Date Sampled: 09/26/2009 1132
Date Received: 09/26/2009 1656

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74474		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73891		Initial Weight/Volume:	30.0 g
Dilution:	5.0			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 1406			Injection Volume:	
Date Prepared:	10/06/2009 1457			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		9.1	U	1.5	9.1
4,4'-DDE		9.1	U	0.83	9.1
4,4'-DDD		16		0.94	9.1
2,4'-DDT		9.1	U	1.5	9.1
2,4'-DDE		9.1	U	0.83	9.1
2,4'-DDD		8.7	J	0.94	9.1

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	12	X	30 - 150
Tetrachloro-m-xylene	6	X	30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR9-CD-092609**

Lab Sample ID: 700-41709-16
Client Matrix: Solid
% Moisture: 58.6

Date Sampled: 09/26/2009 1140
Date Received: 09/26/2009 1656

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74474		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73891		Initial Weight/Volume:	30.0 g
Dilution:	5.0			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 1437			Injection Volume:	
Date Prepared:	10/06/2009 1457			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		8.0	U	1.3	8.0
4,4'-DDE		8.0	U	0.72	8.0
4,4'-DDD		21		0.82	8.0
2,4'-DDT		8.0	U	1.3	8.0
2,4'-DDE		8.0	U	0.72	8.0
2,4'-DDD		8.0	U	0.82	8.0

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	56		30 - 150
Tetrachloro-m-xylene	34		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR9-CE-092609**

Lab Sample ID: 700-41709-17
Client Matrix: Solid
% Moisture: 57.0

Date Sampled: 09/26/2009 1148
Date Received: 09/26/2009 1656

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74474		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73891		Initial Weight/Volume:	30.0 g
Dilution:	5.0			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 1508			Injection Volume:	
Date Prepared:	10/06/2009 1457			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		7.7	U	1.3	7.7
4,4'-DDE		7.7	U	0.70	7.7
4,4'-DDD		3.2	J	0.79	7.7
2,4'-DDT		7.7	U	1.3	7.7
2,4'-DDE		7.7	U	0.70	7.7
2,4'-DDD		7.7	U	0.79	7.7

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	51		30 - 150
Tetrachloro-m-xylene	30		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR-CDUP07-092609**

Lab Sample ID: 700-41709-18
Client Matrix: Solid
% Moisture: 74.9

Date Sampled: 09/26/2009 1200
Date Received: 09/26/2009 1656

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74474		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73891		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/13/2009 1414			Injection Volume:	
Date Prepared:	10/06/2009 1457			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		42	J	8.6	53
4,4'-DDE		53	U	4.8	53
4,4'-DDD		5.5	J	5.4	53
2,4'-DDT		53	U	8.6	53
2,4'-DDE		460		4.8	53
2,4'-DDD		53	U	5.4	53

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	196	X	30 - 150
Tetrachloro-m-xylene	31		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR12-CC-092509**

Lab Sample ID: 700-41709-3
Client Matrix: Solid
% Moisture: 70.1

Date Sampled: 09/25/2009 1519
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74275		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74216		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.1258 g
Date Analyzed:	10/14/2009 1513			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.38		0.15	0.21

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR12-CD-092509**

Lab Sample ID: 700-41709-4
Client Matrix: Solid
% Moisture: 68.7

Date Sampled: 09/25/2009 1529
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74275		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74216		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.0767 g
Date Analyzed:	10/14/2009 1515			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.68		0.23	0.33

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR12-CE-092509**

Lab Sample ID: 700-41709-5
Client Matrix: Solid
% Moisture: 61.6

Date Sampled: 09/25/2009 1540
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74513		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74502		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.56 g
Date Analyzed:	10/21/2009 1313			Final Weight/Volume:	40 mL
Date Prepared:	10/21/2009 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.17		0.026	0.037

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR12-CF-092509**

Lab Sample ID: 700-41709-6
Client Matrix: Solid
% Moisture: 63.9

Date Sampled: 09/25/2009 1549
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74276		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74247		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.55 g
Date Analyzed:	10/15/2009 0929			Final Weight/Volume:	40 mL
Date Prepared:	10/14/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.094		0.028	0.040

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR13-CA-092509**

Lab Sample ID: 700-41709-7
Client Matrix: Solid
% Moisture: 74.3

Date Sampled: 09/26/2009 0938
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74275		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74216		Lab File ID:	N/A
Dilution:	2.0			Initial Weight/Volume:	0.1092 g
Date Analyzed:	10/14/2009 1555			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		18		0.40	0.57

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR13-CB-092509**

Lab Sample ID: 700-41709-8
Client Matrix: Solid
% Moisture: 68.1

Date Sampled: 09/26/2009 0948
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74276		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74247		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.54 g
Date Analyzed:	10/15/2009 0931			Final Weight/Volume:	40 mL
Date Prepared:	10/14/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.30		0.033	0.046

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR13-CC-092509**

Lab Sample ID: 700-41709-9
Client Matrix: Solid
% Moisture: 72.2

Date Sampled: 09/26/2009 0957
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74275		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74216		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.1179 g
Date Analyzed:	10/14/2009 1526			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.27		0.17	0.24

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR13-CD-092509**

Lab Sample ID: 700-41709-10
Client Matrix: Solid
% Moisture: 64.4

Date Sampled: 09/26/2009 1003
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74276		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74247		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Date Analyzed:	10/15/2009 0933			Final Weight/Volume:	40 mL
Date Prepared:	10/14/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.17		0.026	0.037

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR13-CE-092509**

Lab Sample ID: 700-41709-11
Client Matrix: Solid
% Moisture: 59.6

Date Sampled: 09/26/2009 1012
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74276		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74247		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.47 g
Date Analyzed:	10/15/2009 0935			Final Weight/Volume:	40 mL
Date Prepared:	10/14/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.092		0.029	0.042

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR-CDUP10-092609**

Lab Sample ID: 700-41709-12
Client Matrix: Solid
% Moisture: 73.6
Date Sampled: 09/26/2009 1200
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74275		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74216		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.0424 g
Date Analyzed:	10/14/2009 1531			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		20		0.50	0.71

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR9-CA-092609**

Lab Sample ID: 700-41709-13
Client Matrix: Solid

Date Sampled: 09/26/2009 1119
Date Received: 09/26/2009 1656

7470A SPLP Mercury-SPLP East

Method:	7470A	Analysis Batch: 700-73953		Instrument ID:	LEEMAN HYDRA
Preparation:	7470A	Prep Batch: 700-73926		Lab File ID:	N/A
Dilution:	1.0	Leachate Batch: 700-73858		Initial Weight/Volume:	5 mL
Date Analyzed:	10/07/2009 1315			Final Weight/Volume:	40 mL
Date Prepared:	10/06/2009 1500				
Date Leached:	10/05/2009 1545				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.030		0.0013	0.020

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74275		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74216		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.1052 g
Date Analyzed:	10/14/2009 1559			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		120		4.1	5.8

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR9-CB-092609**

Lab Sample ID: 700-41709-14
Client Matrix: Solid
% Moisture: 70.8
Date Sampled: 09/26/2009 1127
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74275		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74216		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.1579 g
Date Analyzed:	10/14/2009 1601			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		170		2.4	3.5

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR9-CC-092609**

Lab Sample ID: 700-41709-15
Client Matrix: Solid
% Moisture: 63.7

Date Sampled: 09/26/2009 1132
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74275		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74216		Lab File ID:	N/A
Dilution:	2.0			Initial Weight/Volume:	0.0917 g
Date Analyzed:	10/14/2009 1557			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		15		0.34	0.48

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR9-CD-092609**

Lab Sample ID: 700-41709-16
Client Matrix: Solid
% Moisture: 58.6
Date Sampled: 09/26/2009 1140
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74275		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74216		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.0677 g
Date Analyzed:	10/14/2009 1540			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		3.1		0.20	0.29

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR9-CE-092609**

Lab Sample ID: 700-41709-17
Client Matrix: Solid
% Moisture: 57.0

Date Sampled: 09/26/2009 1148
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74275		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74216		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.1035 g
Date Analyzed:	10/14/2009 1542			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.25		0.13	0.18

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR-CDUP07-092609**

Lab Sample ID: 700-41709-18
Client Matrix: Solid
% Moisture: 74.9
Date Sampled: 09/26/2009 1200
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74432		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74376		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.0355 g
Date Analyzed:	10/19/2009 1320			Final Weight/Volume:	40 mL
Date Prepared:	10/16/2009 1630				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		220		13	18

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR-CDUP08-092609**

Lab Sample ID: 700-41709-19
Client Matrix: Solid
% Moisture: 77.3

Date Sampled: 09/26/2009 1200
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74432		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74376		Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	0.0733 g
Date Analyzed:	10/19/2009 1318			Final Weight/Volume:	40 mL
Date Prepared:	10/16/2009 1630				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		24		1.7	2.4

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR10-CA-0902609**

Lab Sample ID: 700-41709-20
Client Matrix: Solid
% Moisture: 76.6

Date Sampled: 09/26/2009 1321
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74432		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74376		Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	0.0962 g
Date Analyzed:	10/19/2009 1326			Final Weight/Volume:	40 mL
Date Prepared:	10/16/2009 1630				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		19		1.2	1.8

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR10-CB-0902609**

Lab Sample ID: 700-41709-21
Client Matrix: Solid
% Moisture: 70.7

Date Sampled: 09/26/2009 1327
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74275		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74216		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.1089 g
Date Analyzed:	10/14/2009 1603			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		25		3.5	5.0

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR10-CC-0902609**

Lab Sample ID: 700-41709-22
Client Matrix: Solid
% Moisture: 71.2

Date Sampled: 09/26/2009 1336
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74275		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74216		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.0897 g
Date Analyzed:	10/14/2009 1606			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		24		4.3	6.2

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR10-CD-0902609**

Lab Sample ID: 700-41709-23
Client Matrix: Solid
% Moisture: 64.6

Date Sampled: 09/26/2009 1342
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74275		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74216		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.0750 g
Date Analyzed:	10/14/2009 1611			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		30		4.2	6.0

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR10-CE-0902609**

Lab Sample ID: 700-41709-24
Client Matrix: Solid
% Moisture: 58.1

Date Sampled: 09/26/2009 1348
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74271		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74210		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.0541 g
Date Analyzed:	10/14/2009 1310			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		2.6		0.25	0.35

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR-CDUP09-092609**

Lab Sample ID: 700-41709-25
Client Matrix: Solid
% Moisture: 39.2

Date Sampled: 09/26/2009 1200
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74271		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74210		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.0992 g
Date Analyzed:	10/14/2009 1316			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.38		0.093	0.13

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR11-CC-092609**

Lab Sample ID: 700-41709-28
Client Matrix: Solid
% Moisture: 52.7

Date Sampled: 09/26/2009 1450
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74276		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74247		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Date Analyzed:	10/15/2009 0940			Final Weight/Volume:	40 mL
Date Prepared:	10/14/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.14		0.019	0.027

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR11-CD-092609**

Lab Sample ID: 700-41709-29
Client Matrix: Solid
% Moisture: 40.3

Date Sampled: 09/26/2009 1455
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74276		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74247		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.56 g
Date Analyzed:	10/15/2009 0942			Final Weight/Volume:	40 mL
Date Prepared:	10/14/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.13		0.017	0.024

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR11-CE-092609**

Lab Sample ID: 700-41709-30
Client Matrix: Solid
% Moisture: 34.7

Date Sampled: 09/26/2009 1500
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74271		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74210		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.0882 g
Date Analyzed:	10/14/2009 1322			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		1.3		0.097	0.14

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR11-CF-092609**

Lab Sample ID: 700-41709-31
Client Matrix: Solid
% Moisture: 36.8
Date Sampled: 09/26/2009 1505
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74276		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74247		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.56 g
Date Analyzed:	10/15/2009 0944			Final Weight/Volume:	40 mL
Date Prepared:	10/14/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.066		0.016	0.023

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Client Sample ID: **SDCR12-CG-092509**

Lab Sample ID: 700-41709-32
Client Matrix: Solid
% Moisture: 61.9

Date Sampled: 09/25/2009 1559
Date Received: 09/26/2009 1656

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74276		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74247		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.46 g
Date Analyzed:	10/15/2009 0946			Final Weight/Volume:	40 mL
Date Prepared:	10/14/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.088		0.032	0.046

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: SDCR12-CC-092509

Lab Sample ID: 700-41709-3

Client Matrix: Solid

Date Sampled: 09/25/2009 1519

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	70		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N
Percent Solids	30		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: SDCR12-CD-092509

Lab Sample ID: 700-41709-4

Client Matrix: Solid

Date Sampled: 09/25/2009 1529

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	69		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N
Percent Solids	31		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR12-CE-092509**

Lab Sample ID: 700-41709-5

Client Matrix: Solid

Date Sampled: 09/25/2009 1540

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	62		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N
Percent Solids	38		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR12-CF-092509**

Lab Sample ID: 700-41709-6

Client Matrix: Solid

Date Sampled: 09/25/2009 1549

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	64		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N
Percent Solids	36		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: SDCR13-CA-092509

Lab Sample ID: 700-41709-7

Client Matrix: Solid

Date Sampled: 09/26/2009 0938

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	74		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N
Percent Solids	26		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: SDCR13-CB-092509

Lab Sample ID: 700-41709-8

Client Matrix: Solid

Date Sampled: 09/26/2009 0948

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	68		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N
Percent Solids	32		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR13-CC-092509**

Lab Sample ID: 700-41709-9

Client Matrix: Solid

Date Sampled: 09/26/2009 0957

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	72		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N
Percent Solids	28		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR13-CD-092509**

Lab Sample ID: 700-41709-10

Client Matrix: Solid

Date Sampled: 09/26/2009 1003

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	64		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N
Percent Solids	36		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR13-CE-092509**

Lab Sample ID: 700-41709-11

Client Matrix: Solid

Date Sampled: 09/26/2009 1012

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	60		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N
Percent Solids	40		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR-CDUP10-092609**

Lab Sample ID: 700-41709-12

Client Matrix: Solid

Date Sampled: 09/26/2009 1200

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	74		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N
Percent Solids	26		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR9-CA-092609**

Lab Sample ID: 700-41709-13

Client Matrix: Solid

Date Sampled: 09/26/2009 1119

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	74		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N
Percent Solids	26		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR9-CB-092609**

Lab Sample ID: 700-41709-14

Client Matrix: Solid

Date Sampled: 09/26/2009 1127

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	71		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N
Percent Solids	29		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR9-CC-092609**

Lab Sample ID: 700-41709-15

Client Matrix: Solid

Date Sampled: 09/26/2009 1132

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	64		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N
Percent Solids	36		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR9-CD-092609**

Lab Sample ID: 700-41709-16

Client Matrix: Solid

Date Sampled: 09/26/2009 1140

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	59		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N
Percent Solids	41		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR9-CE-092609**

Lab Sample ID: 700-41709-17

Client Matrix: Solid

Date Sampled: 09/26/2009 1148

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	57		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N
Percent Solids	43		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR-CDUP07-092609**

Lab Sample ID: 700-41709-18

Client Matrix: Solid

Date Sampled: 09/26/2009 1200

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	75		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N
Percent Solids	25		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR-CDUP08-092609**

Lab Sample ID: 700-41709-19

Client Matrix: Solid

Date Sampled: 09/26/2009 1200

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	77		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N
Percent Solids	23		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR10-CA-0902609**

Lab Sample ID: 700-41709-20

Client Matrix: Solid

Date Sampled: 09/26/2009 1321

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	77		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N
Percent Solids	23		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR10-CB-0902609**

Lab Sample ID: 700-41709-21

Client Matrix: Solid

Date Sampled: 09/26/2009 1327

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	71		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N
Percent Solids	29		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR10-CC-0902609**

Lab Sample ID: 700-41709-22

Client Matrix: Solid

Date Sampled: 09/26/2009 1336

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	71		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N
Percent Solids	29		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR10-CD-0902609**

Lab Sample ID: 700-41709-23

Client Matrix: Solid

Date Sampled: 09/26/2009 1342

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	65		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N
Percent Solids	35		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR10-CE-0902609**

Lab Sample ID: 700-41709-24

Client Matrix: Solid

Date Sampled: 09/26/2009 1348

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	58		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N
Percent Solids	42		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR-CDUP09-092609**

Lab Sample ID: 700-41709-25

Client Matrix: Solid

Date Sampled: 09/26/2009 1200

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	39		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N
Percent Solids	61		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR11-CC-092609**

Lab Sample ID: 700-41709-28

Client Matrix: Solid

Date Sampled: 09/26/2009 1450

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	53		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N
Percent Solids	47		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: SDCR11-CD-092609

Lab Sample ID: 700-41709-29

Client Matrix: Solid

Date Sampled: 09/26/2009 1455

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	40		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N
Percent Solids	60		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR11-CE-092609**

Lab Sample ID: 700-41709-30

Client Matrix: Solid

Date Sampled: 09/26/2009 1500

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	35		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N
Percent Solids	65		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR11-CF-092609**

Lab Sample ID: 700-41709-31

Client Matrix: Solid

Date Sampled: 09/26/2009 1505

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	37		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N
Percent Solids	63		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

General Chemistry

Client Sample ID: **SDCR12-CG-092509**

Lab Sample ID: 700-41709-32

Client Matrix: Solid

Date Sampled: 09/25/2009 1559

Date Received: 09/26/2009 1656

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	62		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N
Percent Solids	38		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N

TestAmerica
South Burlington, VT

Sample Data Summary Package

70041709

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

October 20, 2009

Ms. Amanda Catrett
TestAmerica, Inc.
900 Lakeside Drive
Mobile, AL 36693

Re: Laboratory Project No. MACTEC
Case: MACTEC; SDG: 70041709

Dear Ms. Catrett:

Enclosed are the analytical results for the samples that were received by TestAmerica Burlington on September 30th, 2009. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 09/30/09 ETR No: 133905		
808446	SDCR12-CA-092509	09/25/09	SOLID
808447	SDCR12-CB-092509	09/25/09	SOLID
808448	SDCR12-CD-092509	09/25/09	SOLID
808449	SDCR12-CE-092509	09/25/09	SOLID
808450	SDCR12-CF-092509	09/25/09	SOLID
808451	SDCR13-CA-092609	09/26/09	SOLID
808452	SDCR13-CB-092609	09/26/09	SOLID
808453	SDCR13-CC-092609	09/26/09	SOLID
808454	SDCR13-CD-092609	09/26/09	SOLID
808455	SDCR13-CE-092609	09/26/09	SOLID
808456	SDCR9-CA-092609	09/26/09	SOLID
808457	SDCR9-CB-092609	09/26/09	SOLID
808458	SDCR9-CC-092609	09/26/09	SOLID
808459	SDCR9-CD-092609	09/26/09	SOLID
808460	SDCR9-CE-092609	09/26/09	SOLID
808461	SDCR10-CA-092609	09/26/09	SOLID
808462	SDCR10-CB-092609	09/26/09	SOLID
808463	SDCR10-CC-092609	09/26/09	SOLID
808464	SDCR10-CD-092609	09/26/09	SOLID
808465	SDCR10-CE-092609	09/26/09	SOLID
808466	SDCR11-CA-092609	09/26/09	SOLID
808467	SDCR11-CB-092609	09/26/09	SOLID
808468	SDCR11-CD-092609	09/26/09	SOLID
808469	SDCR11-CE-092609	09/26/09	SOLID
808470	SDCR11-CF-092609	09/26/09	SOLID

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 09/30/09 ETR No: 133905		
808471	SDCR12-CG-092509	09/25/09	SOLID

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

The samples were analyzed for particle size by ASTM D422 and for density by ASTM D2937. The density results do not represent the in-place density of the soil. The samples were received in a disturbed state, and subsequent to receipt, the laboratory molded the samples into Shelby tubes, and performed the tests accordingly.

Any reference within this report to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.) The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 660-1990.

Sincerely,

Rayburn J. Lavigne

Rayburn Lavigne
Project Manager

RJL/hsf
Enclosure

TestAmerica Mobile
900 Lakeside Drive
Mobile, AL 36693
Phone (251) 666-6633 Fax (251) 666-6696

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Catrett, Amanda	Carrier Tracking No(s):	COC No: 700-6275.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: amanda.catrett@testamericainc.com		Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc.				Job #: 700-41709-1
Address: 30 Community Drive, Suite 11,	Due Date Requested: 10/7/2009			
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel)	PO #:			
Email:	WO #:			
Project Name: Olin McIntosh OU-2 6107090036	Project #: 70003229			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT/ Grain Size	SUBCONTRACT/ Bulk Density	Total Number of containers	Special Instructions/Note:
Preservation Code:										
SDCR9-CB-092609 (700-41709-14)	9/26/09	11:27		Solid			X	X	1	
SDCR9-CC-092609 (700-41709-15)	9/26/09	11:32		Solid			X	X	1	
SDCR9-CD-092609 (700-41709-16)	9/26/09	11:40		Solid			X	X	1	
SDCR9-CE-092609 (700-41709-17)	9/26/09	11:48		Solid			X	X	1	
SDCR10-CA-0902609 (700-41709-20)	9/26/09	13:21		Solid			X	X	1	
SDCR10-CB-0902609 (700-41709-21)	9/26/09	13:27		Solid			X	X	1	
SDCR10-CC-0902609 (700-41709-22)	9/26/09	13:36		Solid			X	X	1	
SDCR10-CD-0902609 (700-41709-23)	9/26/09	13:42		Solid			X	X	1	
SDCR10-CE-0902609 (700-41709-24)	9/26/09	13:48		Solid			X	X	1	
SDCR11-CA-092609 (700-41709-26)	9/26/09	14:46		Solid			X	X	1	
SDCR11-CB-092609 (700-41709-27)	9/26/09	14:58		Solid			X	X	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:		
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time: 9/29/09 1600	Company	Received by	Date/Time: 9/30/09 1025	Company TA
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

TestAmerica Mobile
900 Lakeside Drive
Mobile, AL 36693
Phone (251) 666-6633 Fax (251) 666-6696

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Catrett, Amanda	Carrier Tracking No(s):	COC No: 700-6275.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: amanda.catrett@testamericainc.com		Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc.				Job #: 700-41709-1
Address: 30 Community Drive, Suite 11,	Due Date Requested: 10/7/2009			
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel)	PO #:			
Email:	WO #:			
Project Name: Olin McIntosh OU-2 6107090036	Project #: 70003229			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT/ Grain Size	SUBCONTRACT/ Bulk Density	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SDCR11-CD-092609 (700-41709-29)	9/26/09	14:55		Solid			X	X	1	
SDCR11-CE-092609 (700-41709-30)	9/26/09	15:00		Solid			X	X	1	
SDCR11-CF-092609 (700-41709-31)	9/26/09	15:05		Solid			X	X	1	
SDCR12-CG-092509 (700-41709-32)	9/25/09	15:59		Solid			X	X	1	

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time: 9/29/09 1600	Company	Received by:	Date/Time: 9/30/09 1025	Company TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

10/08/2009

TestAmerica Mobile
900 Lakeside Drive
Mobile, AL 36693
Phone (251) 666-6633 Fax (251) 666-6696

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Catrett, Amanda	Carrier Tracking No(s):	COC No: 700-6275.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: amanda.catrett@testamericainc.com		Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc.				Job #: 700-41709-1
Address: 30 Community Drive, Suite 11.	Due Date Requested: 10/7/2009			
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel)	PO #:			
Email:	WO #:			
Project Name: Olin McIntosh OU-2 6107090036	Project #: 70003229			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT/ Grain Size	SUBCONTRACT/ Bulk Density	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SDCR12-CA-092509 (700-41709-1)	9/25/09	15:10		Solid			X	X	1	
SDCR12-CB-092509 (700-41709-2)	9/25/09	15:20		Solid			X	X	1	
SDCR12-CD-092509 (700-41709-4)	9/25/09	15:29		Solid			X	X	1	
SDCR12-CE-092509 (700-41709-5)	9/25/09	15:40		Solid			X	X	1	
SDCR12-CF-092509 (700-41709-6)	9/26/09	15:49		Solid			X	X	1	
SDCR13-CA-096509 (700-41709-7)	9/26/09	9:38		Solid			X	X	1	
SDCR13-CB-096509 (700-41709-8)	9/26/09	9:48		Solid			X	X	1	
SDCR13-CC-096509 (700-41709-9)	9/26/09	9:57		Solid			X	X	1	
SDCR13-CD-096509 (700-41709-10)	9/26/09	10:03		Solid			X	X	1	
SDCR13-CE-096509 (700-41709-11)	9/26/09	10:12		Solid			X	X	1	
SDCR9-CA-092609 (700-41709-13)	9/26/09	11:19		Solid			X	X	1	

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time 9/29/09 1600	Company	Received by	Date/Time 9/30/09 1025	Company TA
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Data Summary – Geotechnical

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR12-CA-092509

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808446

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.43	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR12-CB-092509

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808447

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.41	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR12-CD-092509

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808448

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.37	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR12-CE-092509

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808449

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.47	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
SDCR12-CF-092509

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808450

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.44	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR13-CA-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808451

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.30	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR13-CB-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808452

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.37	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR13-CC-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808453

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.33	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
SDCR13-CD-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808454

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.45	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
SDCR13-CE-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808455

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.55	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR9-CA-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808456

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.30	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR9-CB-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808457

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.36	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR9-CC-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808458

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.47	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR9-CD-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808459

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.57	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR9-CE-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808460

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.59	

Printed on: 10/19/09 10:09 AM

11/03/2009

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR10-CA-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808461

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.27	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR10-CB-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808462.

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.36	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR10-CC-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808463

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.33	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR10-CD-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808464

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.43	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR10-CE-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808465

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.56	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR11-CA-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808466

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/08/09		g/cm3	1	0.0	0.53	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR11-CB-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808467

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/09/09		g/cm3	1	0.0	0.62	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR11-CD-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808468

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/09/09		g/cm3	1	0.0	0.90	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
SDCR11-CE-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808469

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/09/09		g/cm3	1	0.0	1.05	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
SDCR11-CF-092609

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808470

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/09/09		g/cm3	1	0.0	1.00	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR12-CG-092509

Lab Name: TestAmerica Burlington | Contract: 700-41709-0 | SDG No.: 70041709

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808471

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/09/09		g/cm3	1	0.0	0.51	

ASTM Method D2937: Standard Test Method for Density of Soil in Place by the Drive-Cylinder Method Calculations

Client Code: STLALM
ETR: 133905
SDG: 70041709

Start Date: 10/8/2009
Start Time: 2215
End Date: 10/12/2009
Analyst: MAP

	Weight Of					Measurement of							
Laboratory Number	Container (g)	Container + Sample (g)	Pan (g)	Pan + Wet Sample (g)	Pan + Dry Sample (g)	Sample Recovery (cm)	Container Diameter (cm)	Area (cm^2)	Wet Sample (g)	Dry Mass Basis (%)	Sample Volume (cm^3)	Dry Mass (g)	In-Place Density (g/cm^3)
808446	125.07	279.68	3.90	81.57	29.94	5.13	5.50	23.76	154.61	198.3%	121.88	51.84	0.43
808447	124.45	283.52	3.94	86.47	30.84	5.35	5.50	23.76	159.07	206.8%	127.11	51.85	0.41
808448	125.68	267.04	3.81	75.50	25.88	5.01	5.50	23.76	141.36	224.8%	119.03	43.52	0.37
808449	125.40	227.71	3.85	34.27	14.86	3.29	5.50	23.76	102.31	176.3%	78.16	37.03	0.47
808450	124.77	284.83	3.80	87.05	32.21	5.26	5.50	23.76	160.06	193.0%	124.97	54.62	0.44
808451	124.30	262.62	3.82	51.94	16.16	5.01	5.50	23.76	138.32	290.0%	119.03	35.47	0.30
808452	124.11	256.07	3.82	56.14	19.95	4.59	5.50	23.76	131.96	224.4%	109.05	40.68	0.37
808453	125.78	244.24	3.81	48.01	16.01	4.13	5.50	23.76	118.46	262.3%	98.12	32.70	0.33
808454	125.63	270.76	3.82	61.35	23.83	4.71	5.50	23.76	145.13	187.5%	111.90	50.48	0.45
808455	125.50	258.66	3.78	65.31	28.95	4.17	5.50	23.76	133.16	144.5%	99.07	54.47	0.55
808456	125.73	269.44	3.79	47.02	14.86	5.22	5.50	23.76	143.71	290.5%	124.02	36.80	0.30
808457	126.64	254.79	3.87	48.98	17.19	4.42	5.50	23.76	128.15	238.7%	105.01	37.84	0.36
808458	124.97	256.04	3.94	52.35	21.75	4.34	5.50	23.76	131.07	171.8%	103.11	48.22	0.47
808459	125.98	279.32	3.80	72.00	31.89	4.63	5.50	23.76	153.34	142.8%	110.00	63.16	0.57
808460	125.73	259.94	3.80	53.32	24.77	4.08	5.50	23.76	134.21	136.1%	96.93	56.83	0.59
808461	125.01	222.55	3.84	23.56	8.35	3.45	5.50	23.76	97.54	337.3%	81.97	22.31	0.27
808462	125.82	279.68	3.87	68.53	22.26	5.09	5.50	23.76	153.86	251.6%	120.93	43.76	0.36
808463	125.70	262.12	3.91	52.23	17.31	4.88	5.50	23.76	136.42	260.6%	115.94	37.83	0.33
808464	125.63	279.20	3.92	66.21	25.89	5.30	5.50	23.76	153.57	183.5%	125.92	54.16	0.43
808465	125.39	259.75	3.91	50.61	23.31	4.08	5.50	23.76	134.36	140.7%	96.93	55.82	0.58
808466	126.72	289.17	3.93	62.02	26.95	5.13	5.50	23.76	162.45	152.3%	121.88	64.38	0.53

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ASTM Method D2937: Standard Test Method for Density of Soil in Place by the Drive-Cylinder Method Calculations

Client Code: STLALM
ETR: 133905
SDG: 70041709

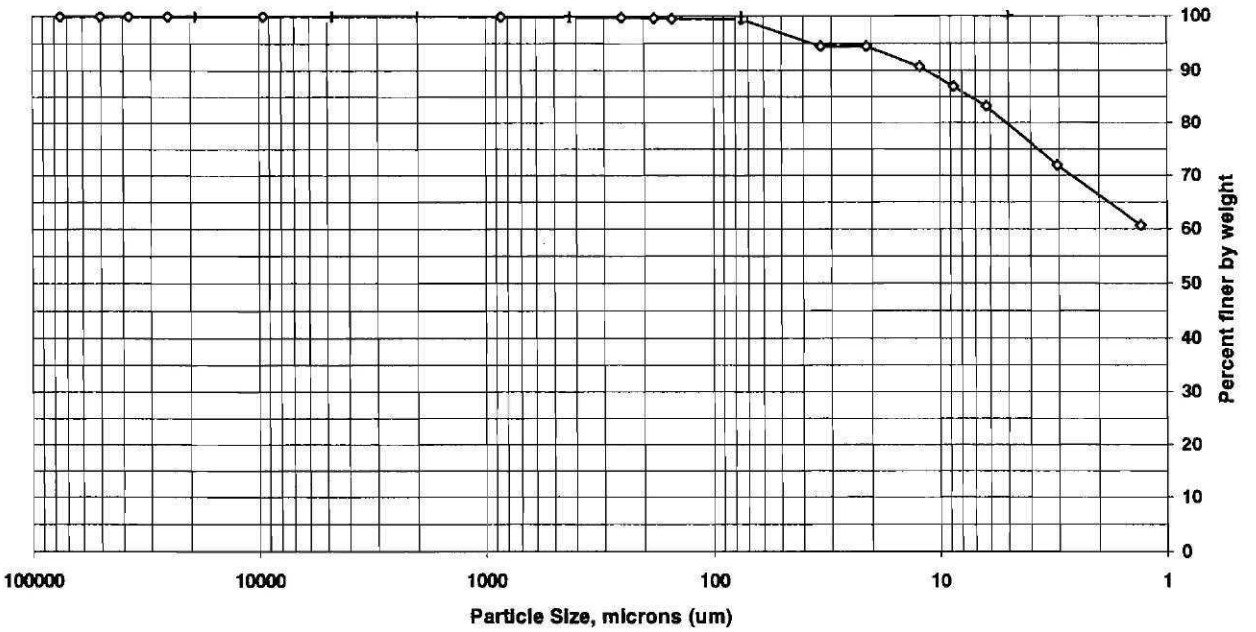
Start Date: 10/9/2009
Start Time: 1925
End Date: 10/12/2009
Analyst: MAP

	Weight Of					Measurement of							
Laboratory Number	Container (g)	Container + Sample (g)	Pan (g)	Pan + Wet Sample (g)	Pan + Dry Sample (g)	Sample Recovery (cm)	Container Diameter (cm)	Area (cm^2)	Wet Sample (g)	Dry Mass Basis (%)	Sample Volume (cm^3)	Dry Mass (g)	In-Place Density (g/cm^3)
808467	125.88	299.53	3.89	71.74	34.09	5.26	5.50	23.76	173.65	124.7%	124.97	77.29	0.62
808468	125.57	301.78	3.82	73.53	44.54	4.80	5.50	23.76	176.21	71.2%	114.04	102.93	0.90
808469	124.89	332.62	3.79	104.40	67.75	5.30	5.50	23.76	207.73	57.3%	125.92	132.06	1.05
808470	126.09	319.78	3.84	110.85	70.02	5.05	5.50	23.76	193.69	61.7%	119.98	119.79	1.00
808471	124.56	273.58	3.86	62.91	26.26	4.71	5.50	23.76	149.02	163.6%	111.90	56.53	0.51

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR12-CA-092509	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808446			**End Date:**	10/19/2009

Percent Solids:	33.5%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.8	0.1
#60	250	99.7	0.1
#80	180	99.6	0.1
#100	150	99.5	0.0
#200	75	99.4	0.1
Hydrometer	33.3	94.5	4.9
|	21.1	94.5	0.0
|	12.2	90.7	3.8
|	8.7	86.9	3.8
|	6.2	83.2	3.8
|	3.0	71.9	11.3
V	1.3	60.7	11.3

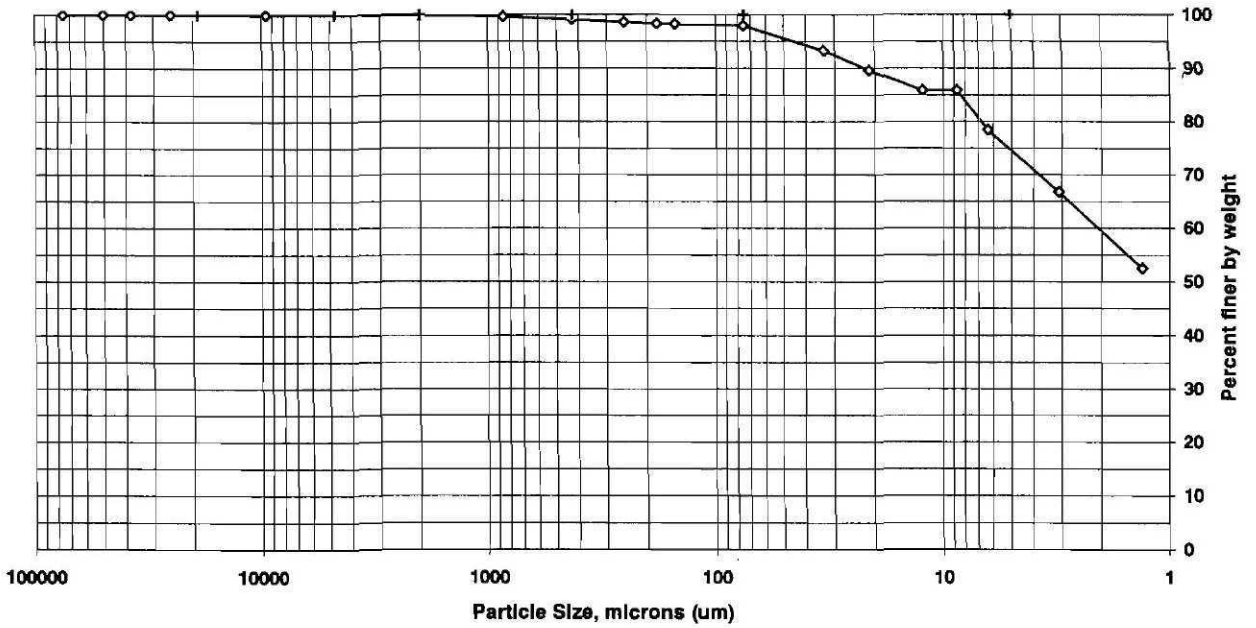
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.6
Coarse Sand	0.0
Medium Sand	0.2
Fine Sand	0.4
Silt	16.2
Clay	83.2

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR12-CB-092509	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808447			**End Date:**	10/19/2009

Percent Solids:	32.6%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.8	0.2
#20	850	99.6	0.2
#40	425	99.1	0.6
#60	250	98.6	0.5
#80	180	98.3	0.3
#100	150	98.2	0.1
#200	75	98.0	0.3
Hydrometer	33.3	93.3	4.7
I	21.2	89.6	3.7
I	12.3	85.9	3.7
I	8.7	85.9	0.0
I	6.3	78.5	7.4
I	3.1	66.7	11.7
V	1.3	52.5	14.2

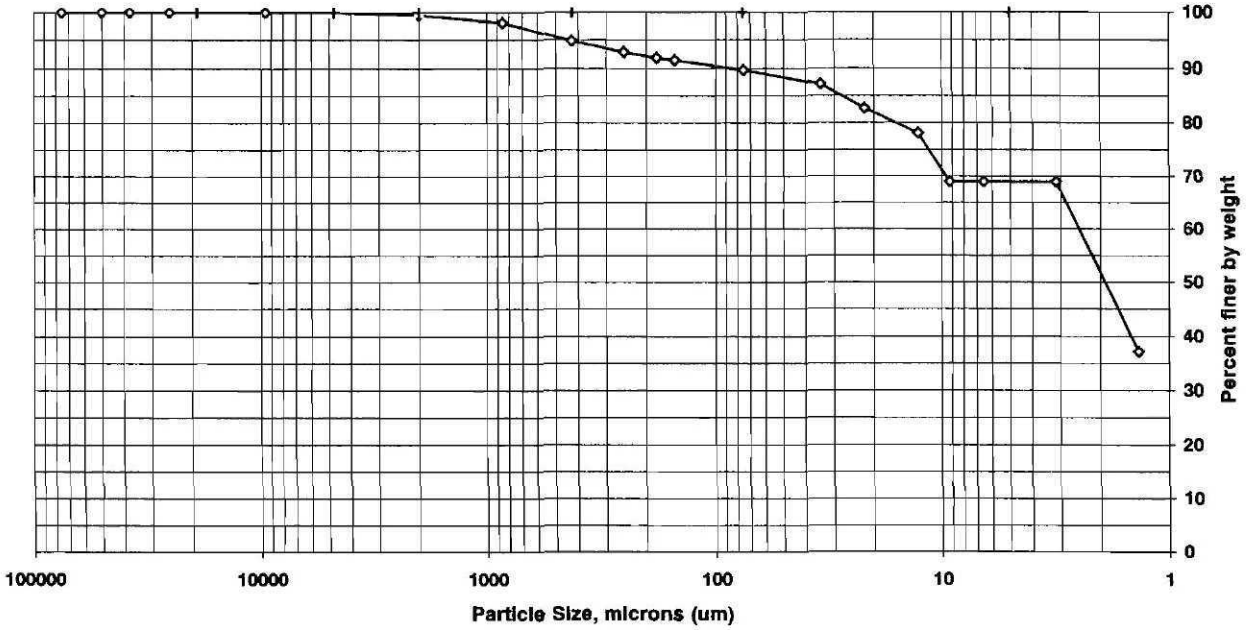
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	2.0
Coarse Sand	0.2
Medium Sand	0.7
Fine Sand	1.1
Silt	19.5
Clay	78.5

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR12-CD-092509	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808448			**End Date:**	10/19/2009

Percent Solids:	30.8%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.5	0.5
#20	850	98.1	1.4
#40	425	94.8	3.3
#60	250	92.9	2.0
#80	180	91.8	1.0
#100	150	91.4	0.5
#200	75	89.7	1.7
Hydrometer	34.4	87.2	2.5
|	21.9	82.6	4.5
|	12.7	78.1	4.5
|	9.2	69.0	9.1
|	6.5	69.0	0.0
|	3.1	69.0	0.0
V	1.4	37.1	31.8

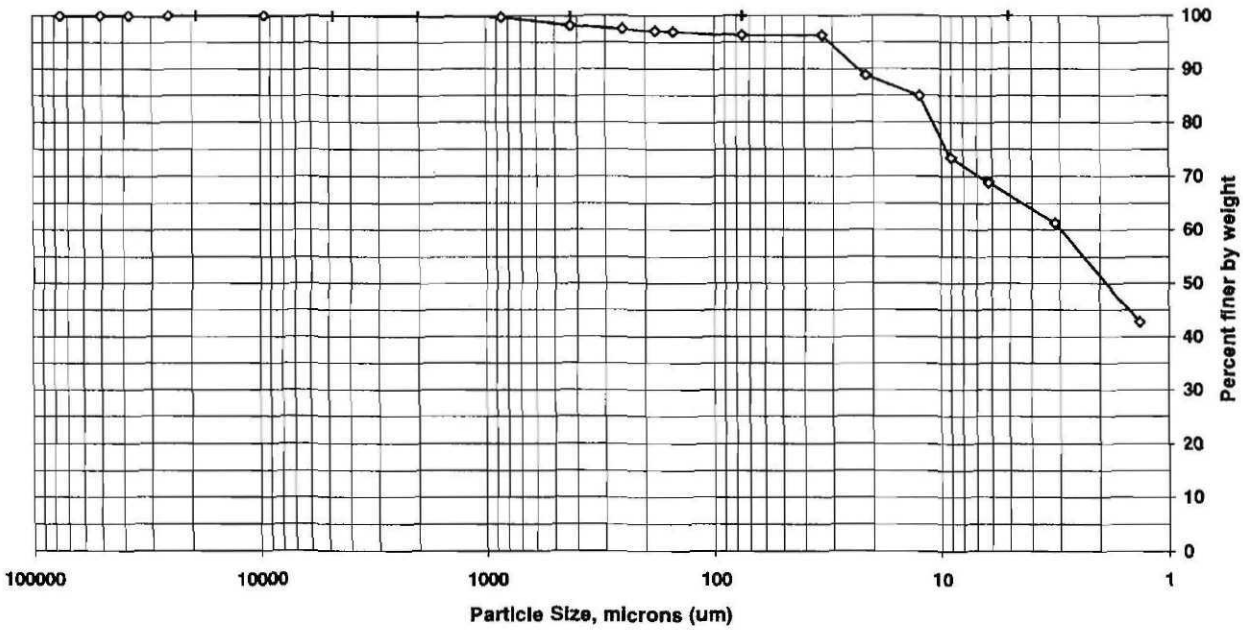
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	10.3
Coarse Sand	0.5
Medium Sand	4.7
Fine Sand	5.2
Silt	20.7
Clay	69.0

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR12-CE-092509	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808449			**End Date:**	10/19/2009

Percent Solids:	36.2%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.7	0.2
#40	425	98.3	1.4
#60	250	97.6	0.7
#80	180	97.2	0.4
#100	150	97.0	0.1
#200	75	96.4	0.6
Hydrometer	33.3	96.4	0.1
|	21.3	88.7	7.7
|	12.4	84.9	3.8
|	9.0	73.4	11.5
|	6.2	68.9	4.5
|	3.1	61.3	7.7
V	1.3	42.8	18.5

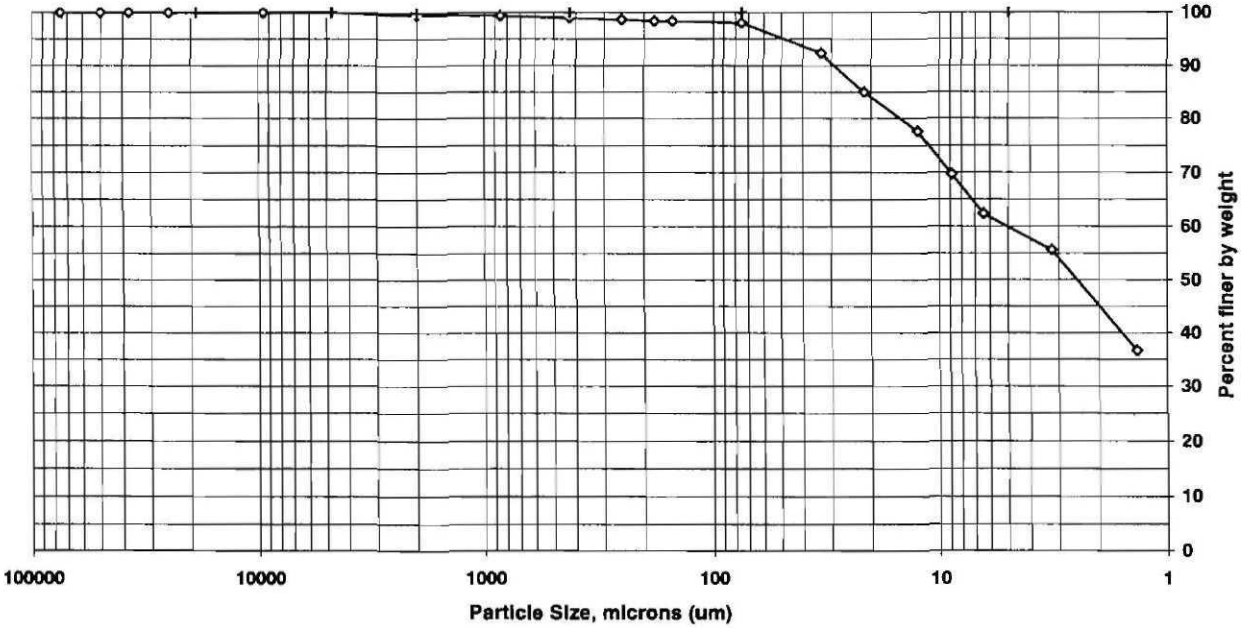
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	3.6
Coarse Sand	0.0
Medium Sand	1.7
Fine Sand	1.9
Silt	27.5
Clay	68.9

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR12-CF-092509	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808450			**End Date:**	10/19/2009

Percent Solids:	34.1%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.5	0.5
#20	850	99.4	0.1
#40	425	99.0	0.4
#60	250	98.6	0.4
#80	180	98.4	0.2
#100	150	98.4	0.0
#200	75	98.0	0.3
Hydrometer	33.3	92.3	5.7
|	21.3	85.0	7.3
|	12.4	77.6	7.3
|	8.8	69.7	7.9
|	6.4	62.3	7.3
|	3.2	55.6	6.7
V	1.4	36.7	18.9

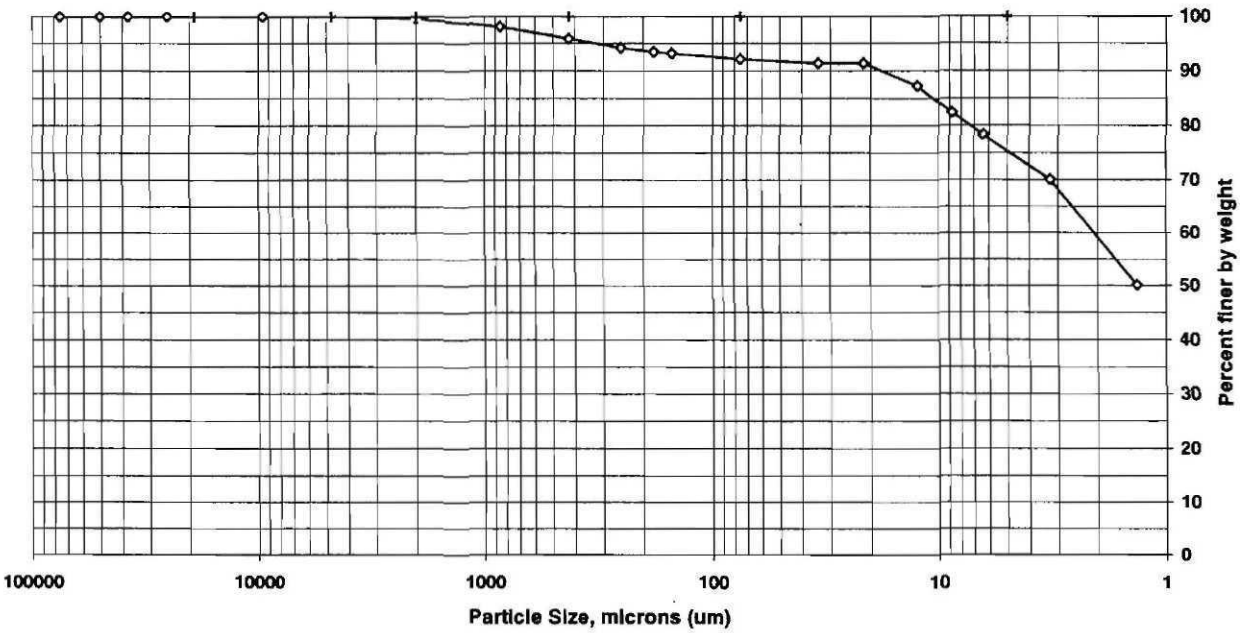
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	2.0
Coarse Sand	0.5
Medium Sand	0.5
Fine Sand	1.0
Silt	35.7
Clay	62.3

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR13-CA-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808451			**End Date:**	10/19/2009

Percent Solids:	25.6%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.6	0.4
#20	850	98.2	1.5
#40	425	95.8	2.3
#60	250	94.2	1.6
#80	180	93.5	0.7
#100	150	93.2	0.3
#200	75	92.1	1.0
Hydrometer	33.9	91.4	0.8
|	21.4	91.4	0.0
|	12.4	87.2	4.1
|	8.7	82.4	4.8
|	6.4	78.3	4.1
|	3.2	70.1	8.2
V	1.3	50.1	19.9

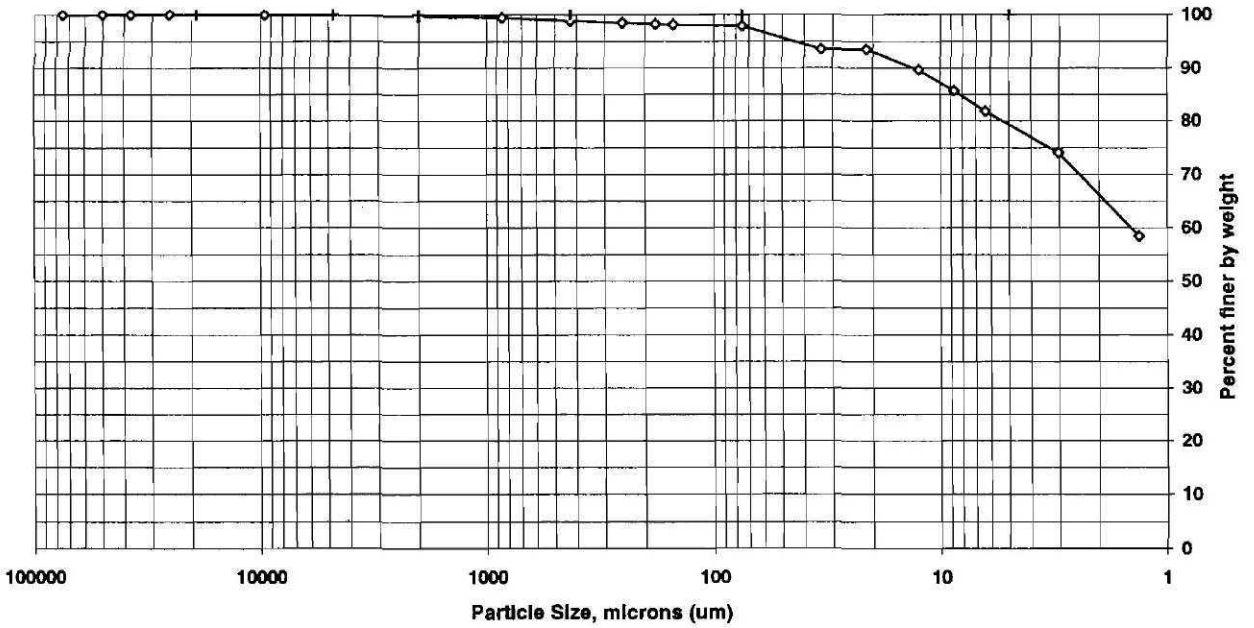
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	7.9
Coarse Sand	0.4
Medium Sand	3.8
Fine Sand	3.7
Silt	13.8
Clay	78.3

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR13-CB-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808452			**End Date:**	10/19/2009

Percent Solids:	30.8%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.7	0.3
#20	850	99.5	0.2
#40	425	98.8	0.6
#60	250	98.5	0.3
#80	180	98.3	0.2
#100	150	98.2	0.1
#200	75	97.9	0.2
Hydrometer	33.7	93.5	4.4
|	21.3	93.5	0.0
|	12.4	89.6	3.9
|	8.7	85.7	3.9
|	6.3	81.8	3.9
|	3.0	74.0	7.8
V	1.3	58.5	15.6

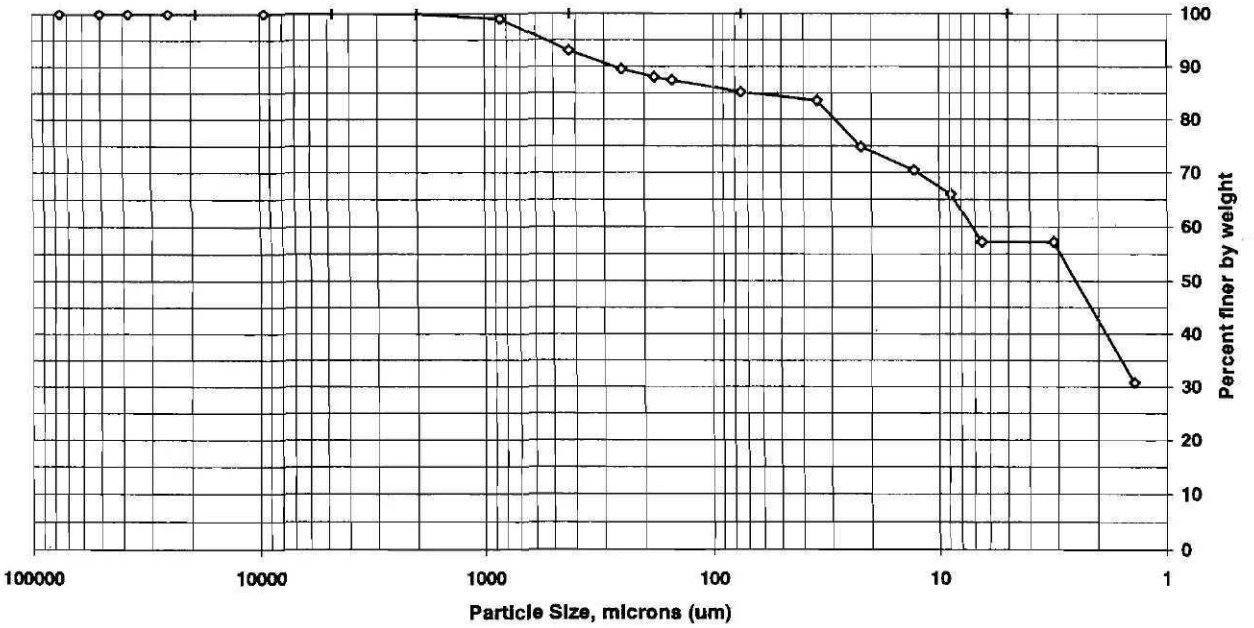
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	2.1
Coarse Sand	0.3
Medium Sand	0.8
Fine Sand	0.9
Silt	16.1
Clay	81.8

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR13-CC-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808453			**End Date:**	10/19/2009

Percent Solids:	27.6%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.9	0.1
#20	850	99.1	0.8
#40	425	93.0	6.0
#60	250	89.5	3.6
#80	180	88.0	1.5
#100	150	87.4	0.6
#200	75	85.2	2.2
Hydrometer	34.6	83.6	1.6
|	22.1	74.8	8.8
|	12.8	70.4	4.4
|	8.8	66.0	4.4
|	6.5	57.2	8.8
|	3.1	57.2	0.0
V	1.4	30.8	26.4

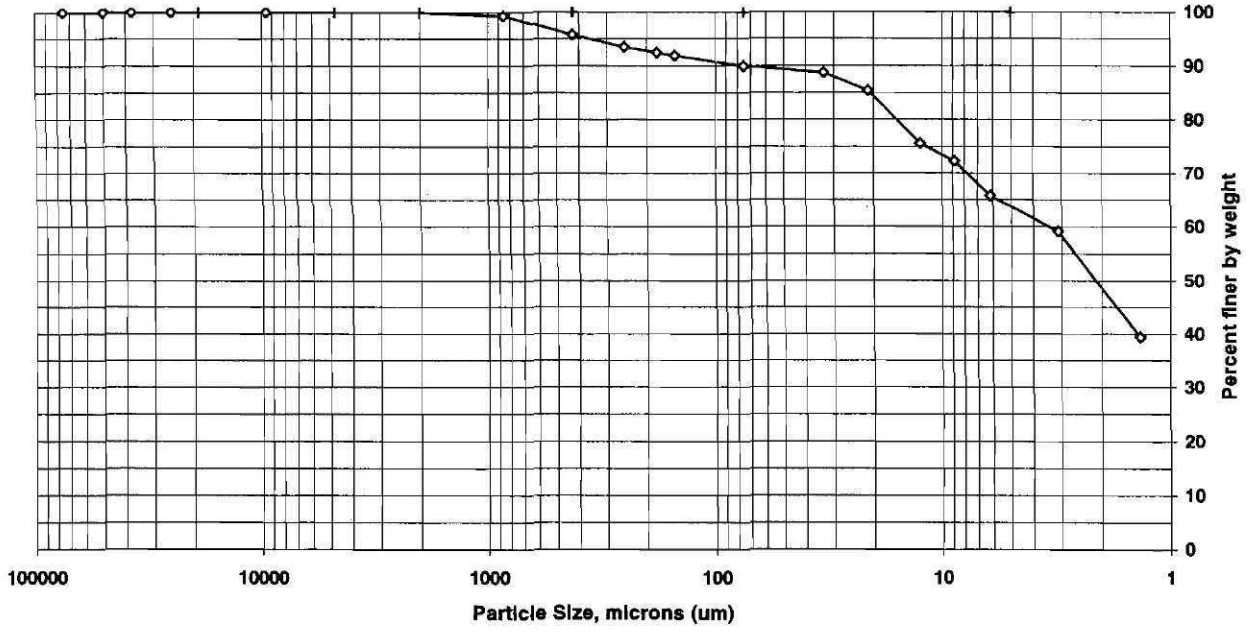
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	14.8
Coarse Sand	0.1
Medium Sand	6.8
Fine Sand	7.9
Silt	28.0
Clay	57.2

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR13-CD-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808454			**End Date:**	10/19/2009

Percent Solids:	34.8%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.3	0.7
#40	425	95.7	3.5
#60	250	93.5	2.3
#80	180	92.3	1.1
#100	150	91.8	0.5
#200	75	89.9	1.9
Hydrometer	33.2	88.7	1.2
|	21.1	85.4	3.3
|	12.4	75.6	9.9
|	8.8	72.3	3.3
|	6.1	65.7	6.6
|	3.1	59.1	6.6
V	1.4	39.4	19.7

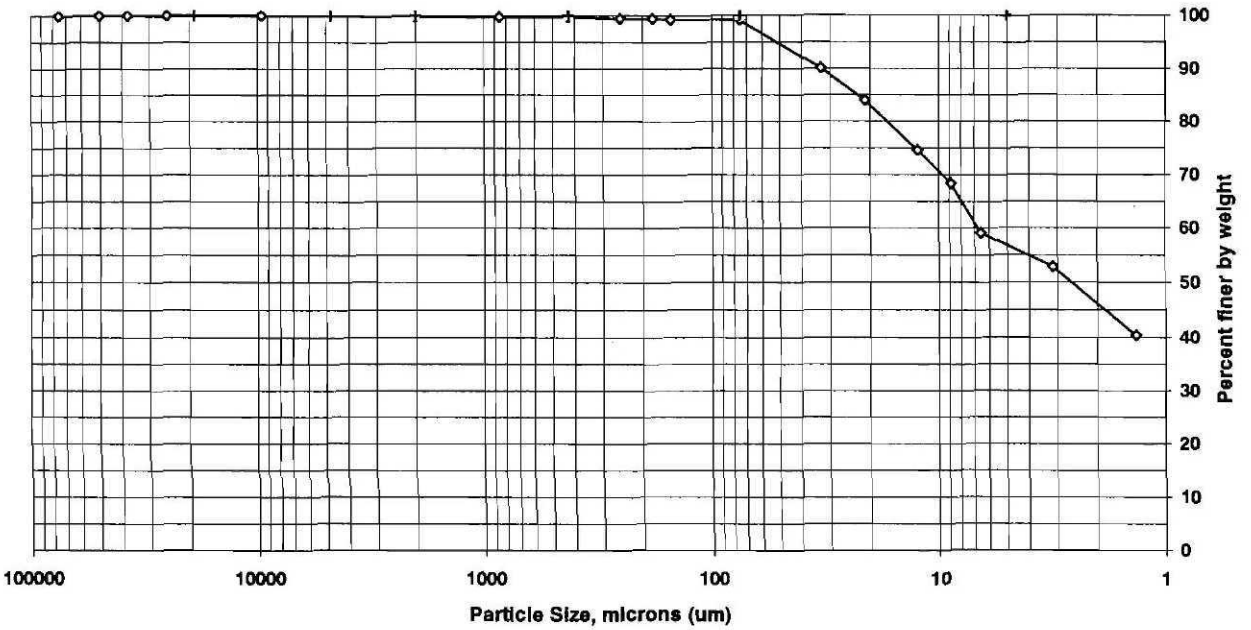
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	10.1
Coarse Sand	0.0
Medium Sand	4.2
Fine Sand	5.8
Silt	24.2
Clay	65.7

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR13-CE-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808455			**End Date:**	10/19/2009

Percent Solids:	40.9%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.8	0.2
#20	850	99.7	0.1
#40	425	99.7	0.1
#60	250	99.4	0.2
#80	180	99.4	0.0
#100	150	99.3	0.1
#200	75	99.1	0.2
Hydrometer	32.8	90.1	9.0
|	21.0	83.9	6.2
|	12.3	74.6	9.3
|	8.8	68.4	6.2
|	6.5	59.0	9.3
|	3.1	52.8	6.2
V	1.4	40.4	12.4

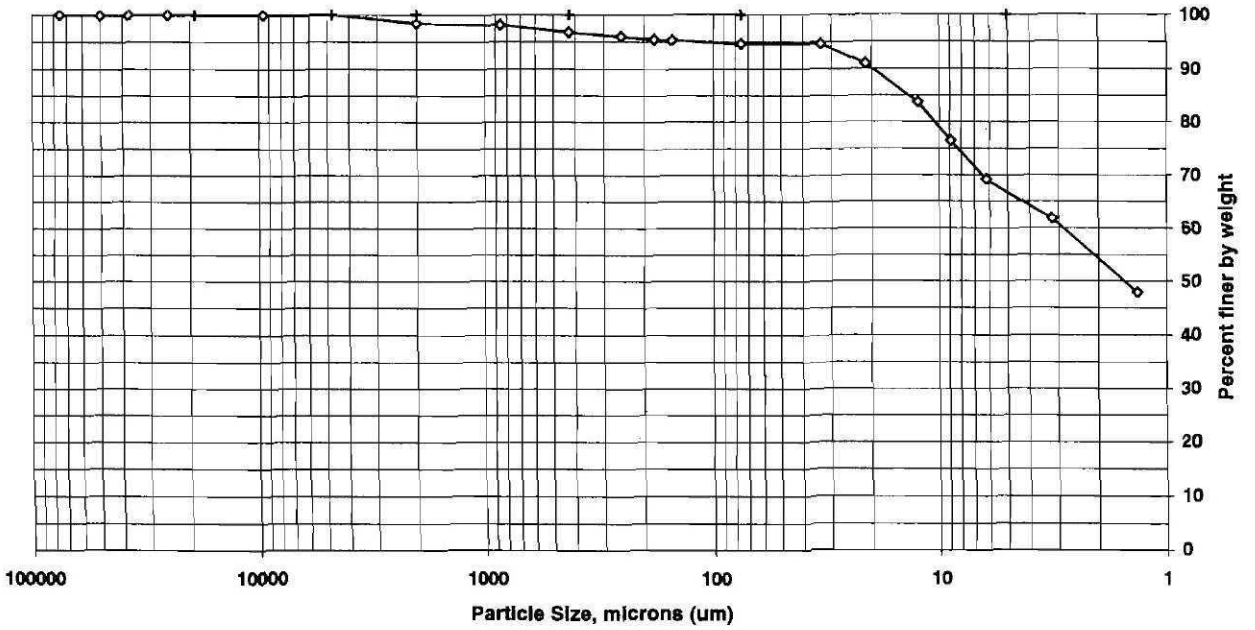
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.9
Coarse Sand	0.2
Medium Sand	0.2
Fine Sand	0.5
Silt	40.1
Clay	59.0

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR9-CA-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808456			**End Date:**	10/19/2009

Percent Solids:	25.6%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	98.4	1.6
#20	850	98.1	0.3
#40	425	96.8	1.4
#60	250	96.0	0.8
#80	180	95.5	0.5
#100	150	95.3	0.2
#200	75	94.6	0.7
Hydrometer	33.4	94.6	0.0
|	21.2	90.9	3.6
|	12.4	83.7	7.3
|	8.8	76.4	7.3
|	6.2	69.1	7.3
|	3.2	61.8	7.3
V	1.3	47.9	13.9

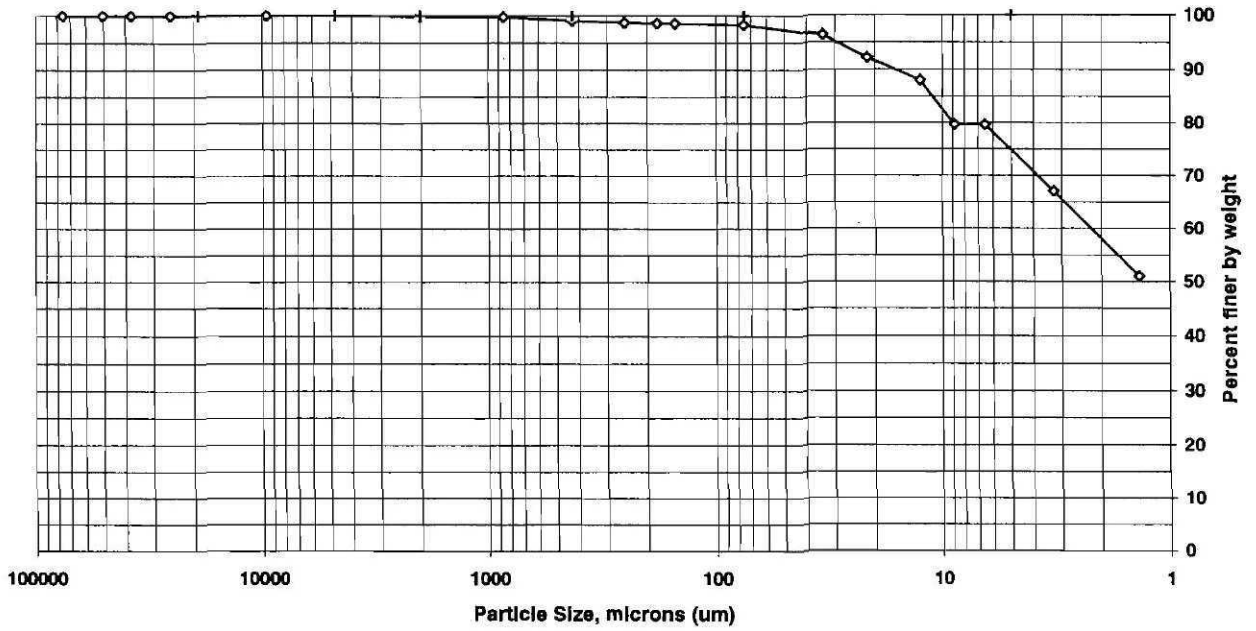
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	5.4
Coarse Sand	1.6
Medium Sand	1.6
Fine Sand	2.2
Silt	25.5
Clay	69.1

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR9-CB-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808457			**End Date:**	10/19/2009

Percent Solids:	29.5%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.8	0.2
#20	850	99.7	0.1
#40	425	99.1	0.6
#60	250	98.7	0.4
#80	180	98.6	0.2
#100	150	98.5	0.1
#200	75	98.3	0.2
Hydrometer	33.9	96.4	1.9
|	21.6	92.2	4.2
|	12.5	88.0	4.2
|	8.8	79.6	8.4
|	6.5	79.6	0.0
|	3.2	67.1	12.6
V	1.4	51.0	16.1

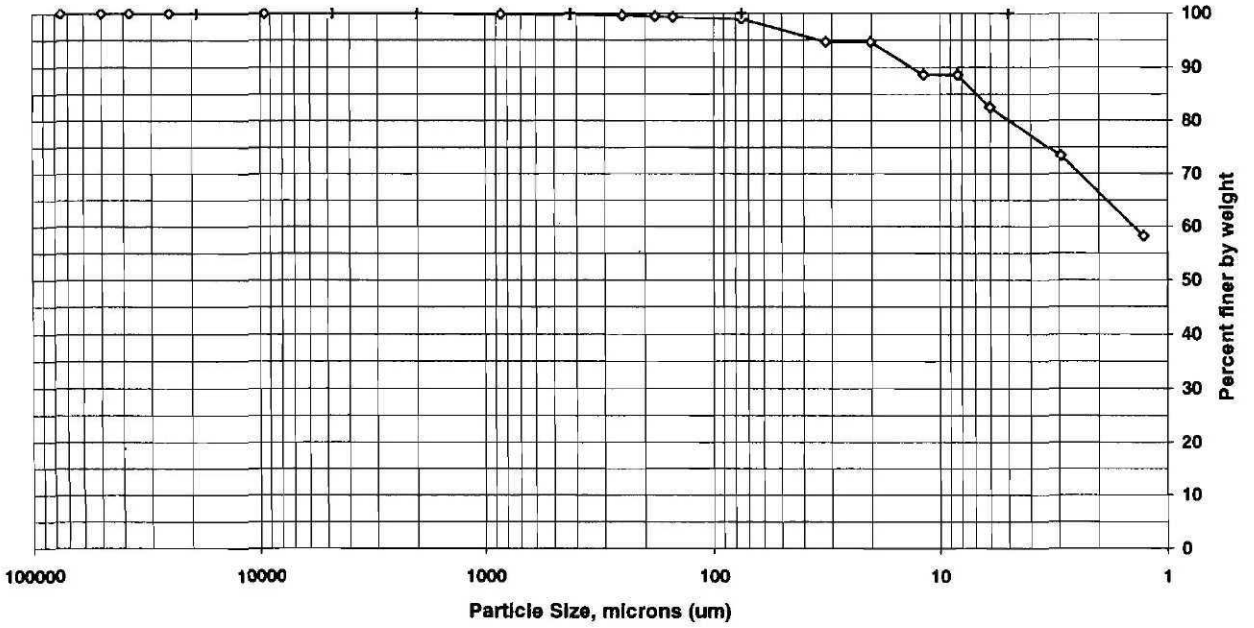
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	1.7
Coarse Sand	0.2
Medium Sand	0.7
Fine Sand	0.8
Silt	18.7
Clay	79.6

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR9-CC-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808458			**End Date:**	10/16/2009

Percent Solids:	36.8%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.8	0.2
#40	425	99.7	0.1
#60	250	99.6	0.1
#80	180	99.4	0.2
#100	150	99.3	0.1
#200	75	98.9	0.4
Hydrometer	31.8	94.7	4.2
I	20.1	94.7	0.0
I	11.8	88.6	6.1
I	8.3	88.6	0.0
I	6.0	82.5	6.1
I	2.9	73.4	9.1
V	1.3	58.2	15.2

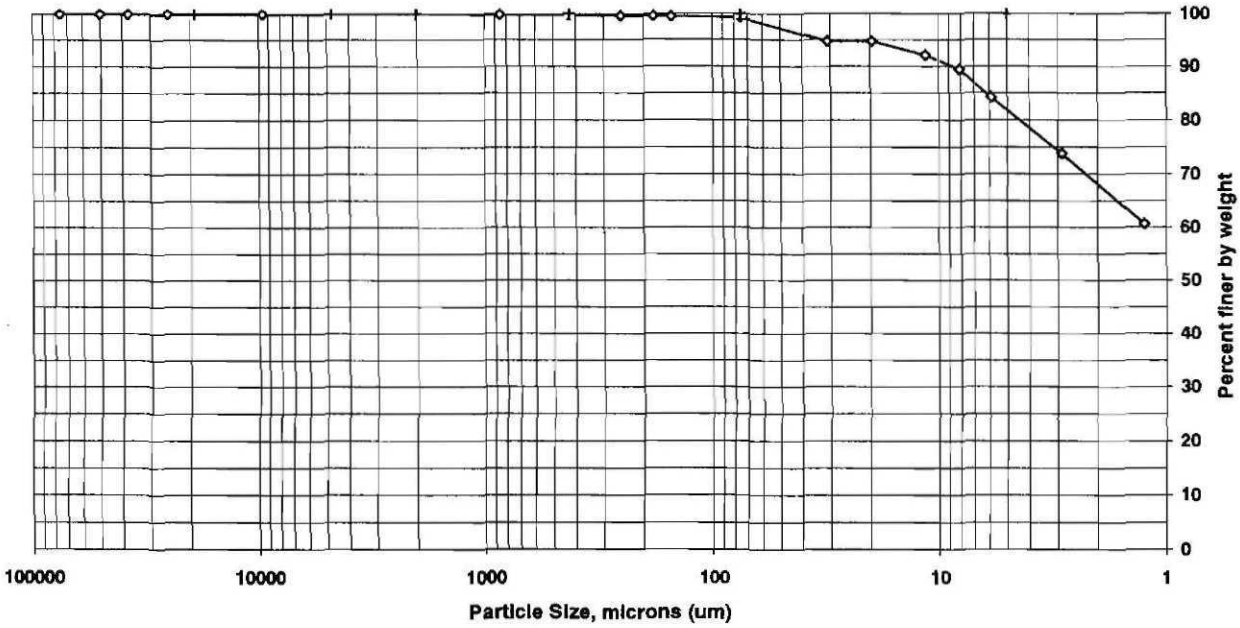
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	1.1
Coarse Sand	0.0
Medium Sand	0.3
Fine Sand	0.8
Silt	16.4
Clay	82.5

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR9-CD-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808459			**End Date:**	10/16/2009

Percent Solids:	41.2%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.9	0.1
#20	850	99.8	0.1
#40	425	99.7	0.1
#60	250	99.6	0.1
#80	180	99.5	0.1
#100	150	99.5	0.0
#200	75	99.3	0.2
Hydrometer	30.9	94.7	4.6
	19.5	94.7	0.0
	11.3	92.1	2.6
	8.1	89.5	2.6
	5.9	84.2	5.2
	2.9	73.8	10.5
V	1.2	60.7	13.1

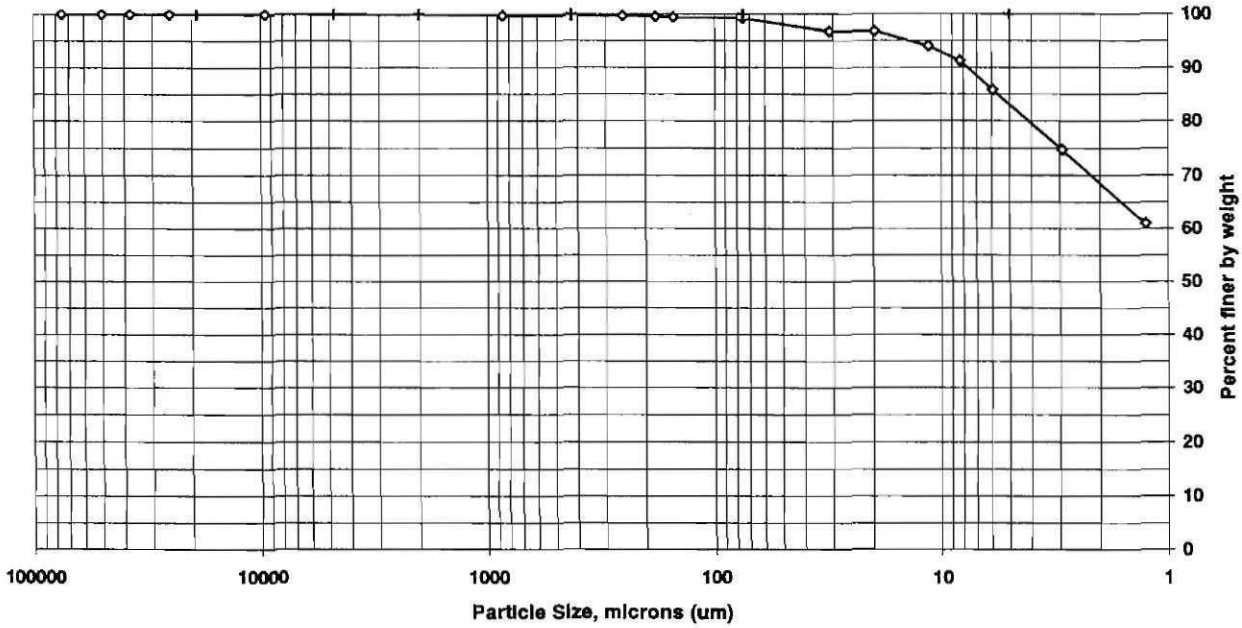
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.7
Coarse Sand	0.1
Medium Sand	0.2
Fine Sand	0.5
Silt	15.0
Clay	84.2

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR9-CE-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808460			**End Date:**	10/16/2009

Percent Solids:	42.3%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.9	0.1
#20	850	99.7	0.1
#40	425	99.7	0.0
#60	250	99.7	0.0
#80	180	99.5	0.1
#100	150	99.4	0.1
#200	75	99.2	0.2
Hydrometer	31.1	96.8	2.5
|	19.6	96.8	0.0
|	11.4	94.0	2.8
|	8.3	91.3	2.8
|	5.9	85.8	5.5
|	2.9	74.8	11.0
V	1.3	61.0	13.8

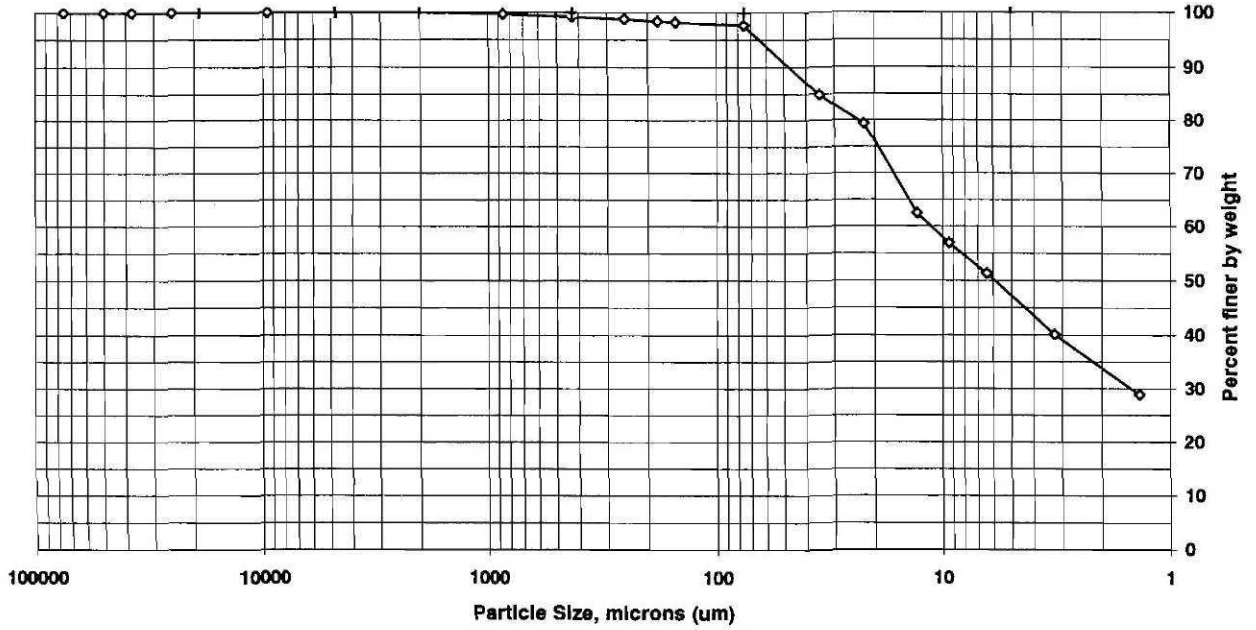
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.8
Coarse Sand	0.1
Medium Sand	0.2
Fine Sand	0.4
Silt	13.5
Clay	85.8

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR10-CA-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808461			**End Date:**	10/16/2009

Percent Solids:	22.9%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.7	0.3
#40	425	99.2	0.5
#60	250	98.8	0.4
#80	180	98.4	0.4
#100	150	98.2	0.2
#200	75	97.6	0.6
Hydrometer	34.8	84.9	12.8
|	22.1	79.3	5.6
|	12.9	62.5	16.8
|	9.4	56.9	5.6
|	6.4	51.3	5.6
|	3.2	40.1	11.2
V	1.4	28.9	11.2

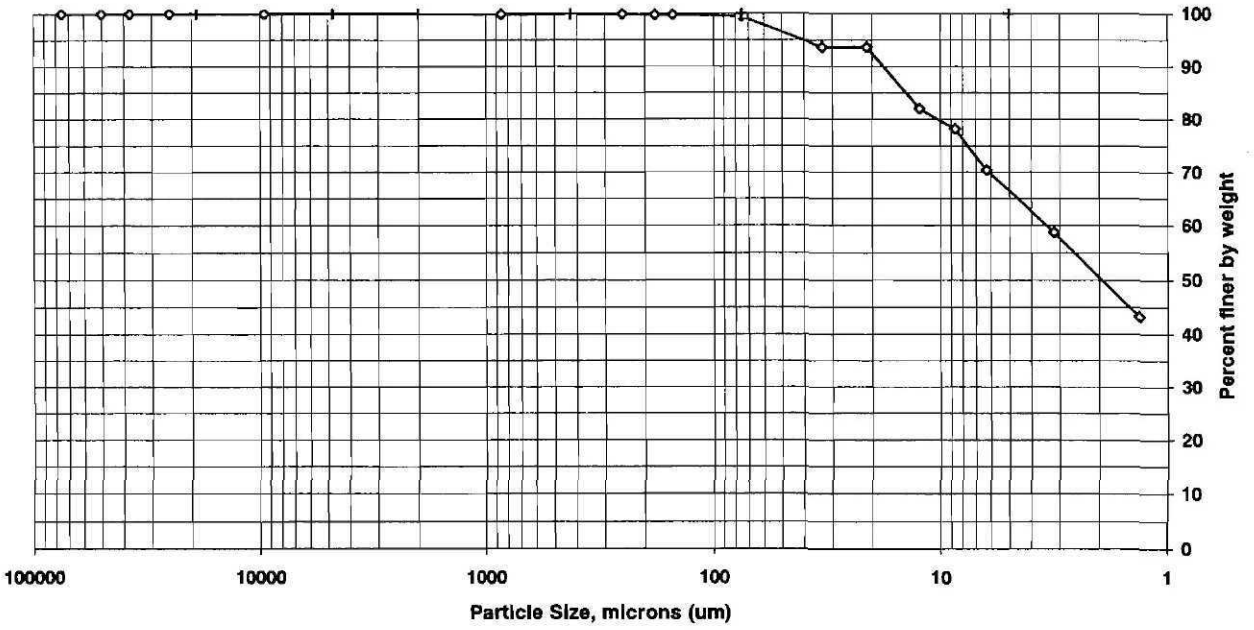
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	2.4
Coarse Sand	0.0
Medium Sand	0.8
Fine Sand	1.6
Silt	46.3
Clay	51.3

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR10-CB-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808462			**End Date:**	10/16/2009

Percent Solids:	28.4%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.9	0.0
#60	250	99.9	0.0
#80	180	99.8	0.1
#100	150	99.8	0.0
#200	75	99.5	0.3
Hydrometer	33.1	93.6	5.8
	21.0	93.6	0.0
	12.3	82.0	11.6
	8.6	78.1	3.9
	6.2	70.4	7.7
	3.2	58.8	11.6
V	1.3	43.3	15.5

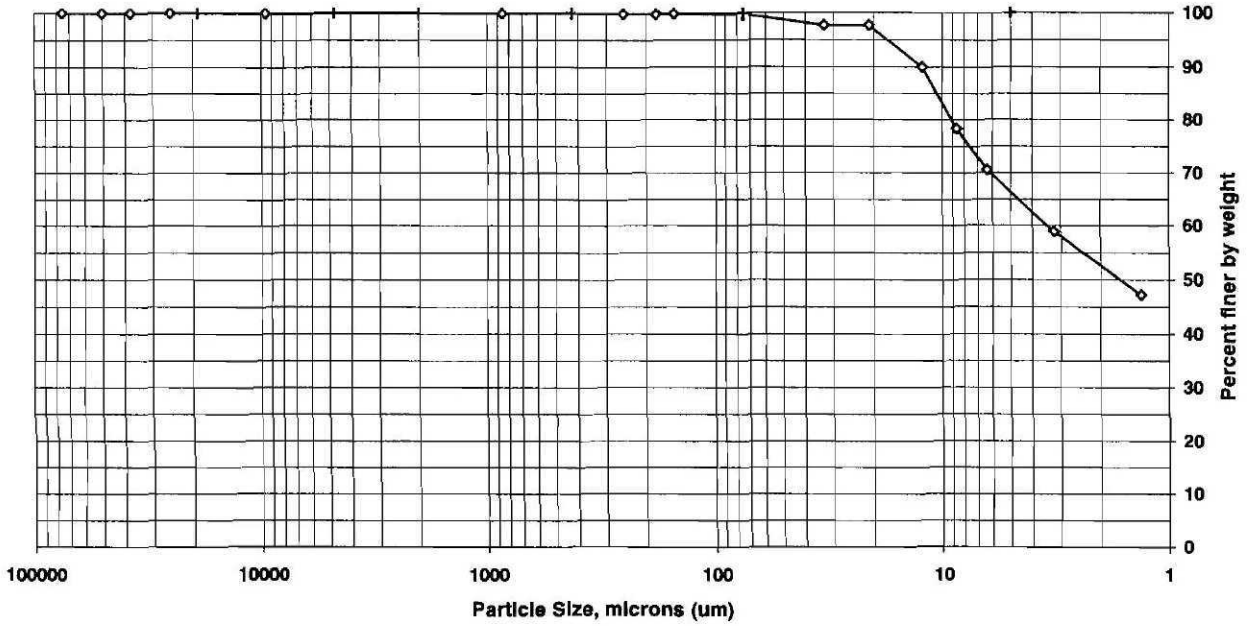
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.5
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.4
Silt	29.1
Clay	70.4

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR10-CC-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808463			**End Date:**	10/16/2009

Percent Solids:	27.7%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.9	0.0
#60	250	99.9	0.0
#80	180	99.8	0.0
#100	150	99.8	0.0
#200	75	99.6	0.2
Hydrometer	33.0	97.7	1.9
|	20.8	97.7	0.0
|	12.2	90.0	7.8
|	8.6	78.3	11.6
|	6.3	70.5	7.8
|	3.2	58.9	11.6
V	1.3	47.2	11.6

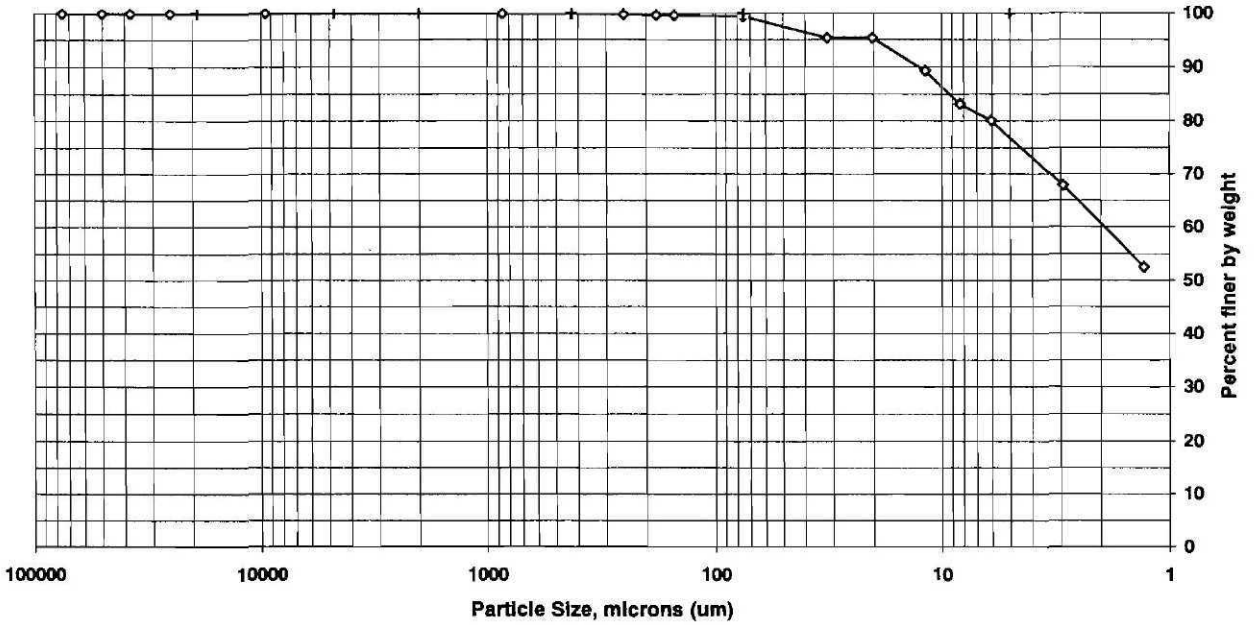
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.4
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.2
Silt	29.1
Clay	70.5

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR10-CD-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808464			**End Date:**	10/16/2009

Percent Solids:	35.3%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.8	0.1
#60	250	99.7	0.1
#80	180	99.6	0.1
#100	150	99.6	0.0
#200	75	99.4	0.2
Hydrometer	31.8	95.4	4.0
|	20.1	95.4	0.0
|	11.8	89.2	6.1
|	8.3	83.1	6.1
|	6.0	80.1	3.1
|	2.9	67.8	12.2
V	1.3	52.5	15.3

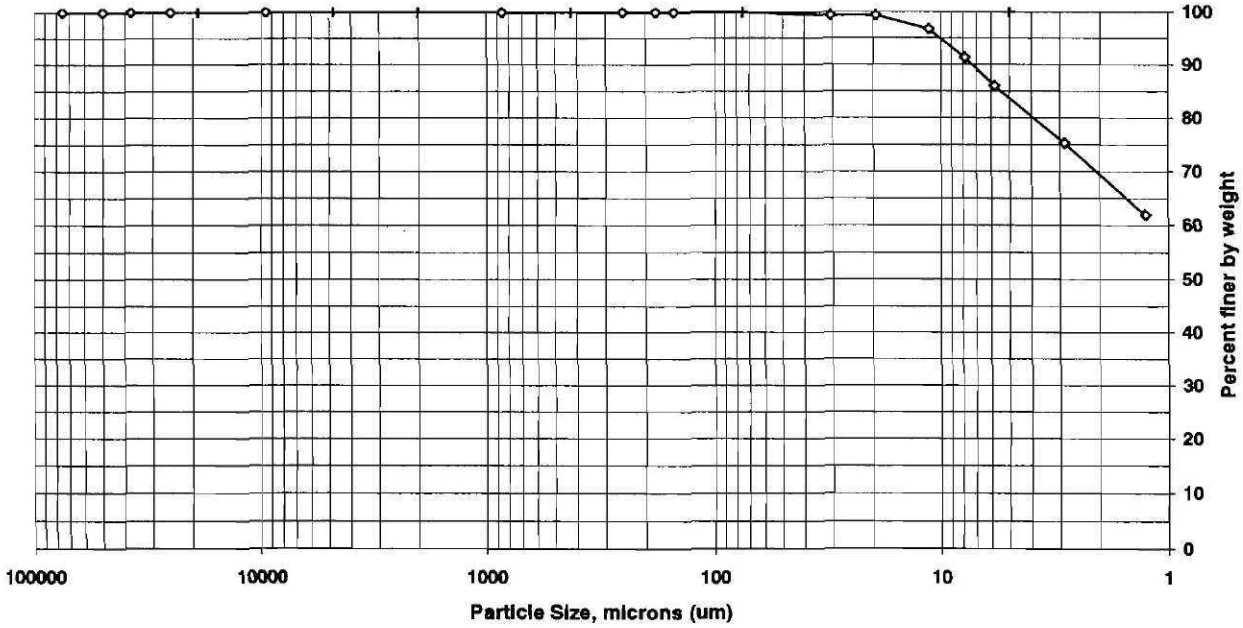
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.6
Coarse Sand	0.0
Medium Sand	0.2
Fine Sand	0.5
Silt	19.3
Clay	80.1

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR10-CE-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808465			**End Date:**	10/16/2009

Percent Solids:	41.5%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.9	0.0
#60	250	99.9	0.0
#80	180	99.9	0.0
#100	150	99.9	0.0
#200	75	99.9	0.0
Hydrometer	30.7	99.3	0.6
	19.4	99.3	0.0
	11.3	96.7	2.7
	7.8	91.3	5.3
	5.8	86.0	5.3
	2.8	75.3	10.7
V	1.3	61.9	13.4

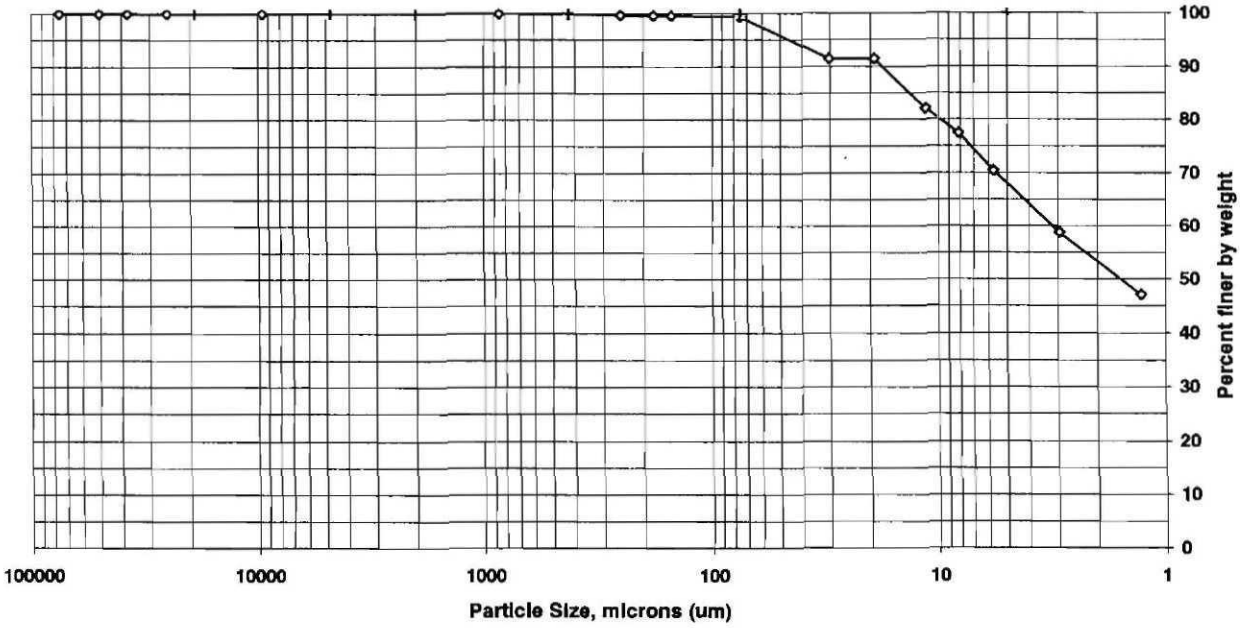
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.1
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.0
Silt	14.0
Clay	86.0

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR11-CA-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808466			**End Date:**	10/16/2009

Percent Solids:	39.6%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.8	0.2
#60	250	99.7	0.1
#80	180	99.5	0.1
#100	150	99.5	0.0
#200	75	99.3	0.2
Hydrometer	30.3	91.4	7.9
|	19.1	91.4	0.0
|	11.3	82.1	9.3
|	8.1	77.4	4.7
|	5.7	70.4	7.0
|	2.9	58.8	11.7
V	1.3	47.1	11.7

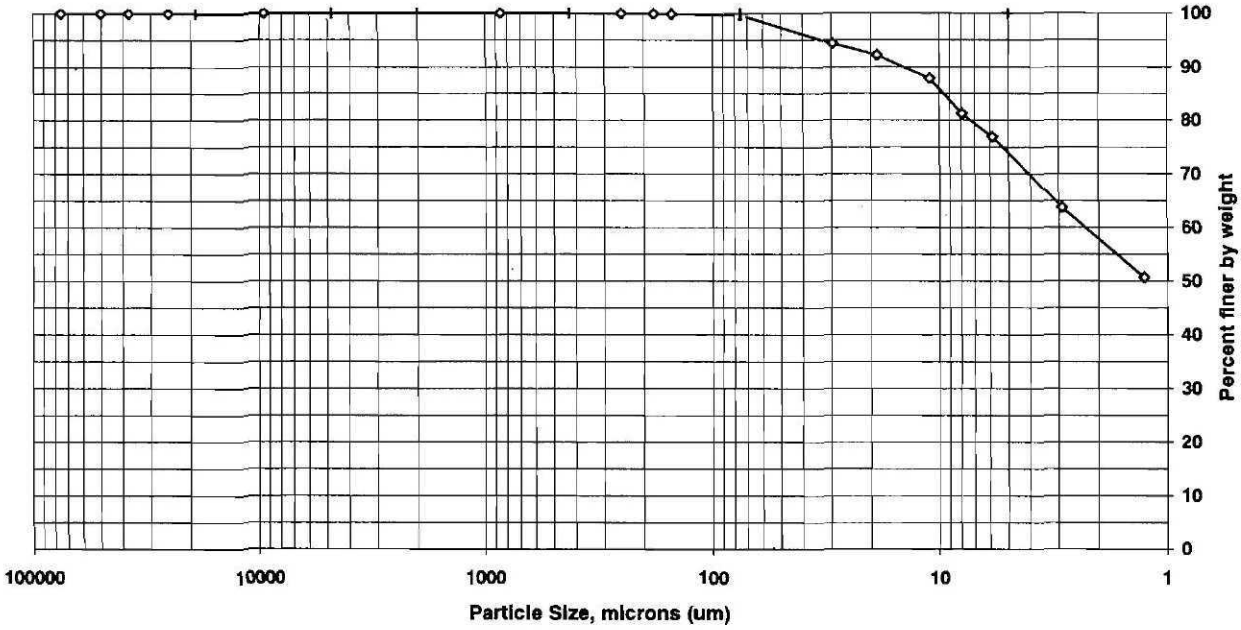
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.7
Coarse Sand	0.0
Medium Sand	0.2
Fine Sand	0.5
Silt	28.9
Clay	70.4

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR11-CB-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808467			**End Date:**	10/16/2009

Percent Solids:	44.5%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	100.0	0.0
#60	250	99.9	0.0
#80	180	99.9	0.1
#100	150	99.8	0.0
#200	75	99.6	0.2
Hydrometer	29.4	94.4	5.3
|	18.8	92.2	2.2
|	11.0	87.8	4.4
|	7.9	81.2	6.6
|	5.8	76.9	4.4
|	2.9	63.8	13.1
V	1.3	50.6	13.1

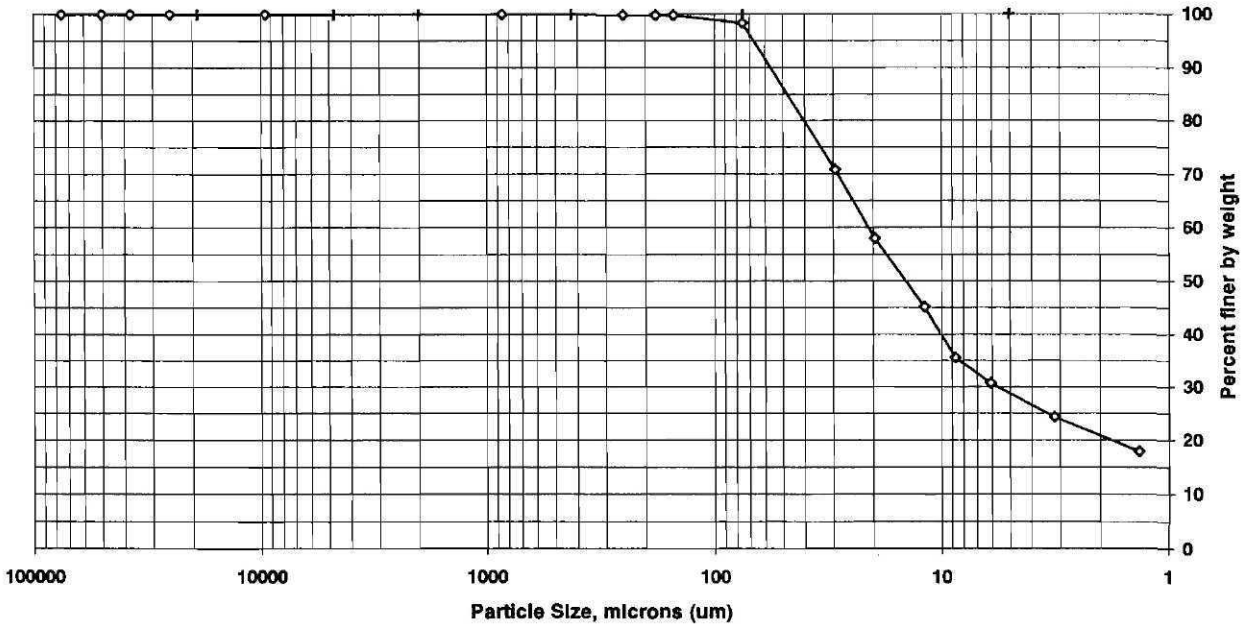
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.4
Coarse Sand	0.0
Medium Sand	0.0
Fine Sand	0.3
Silt	22.8
Clay	76.9

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR11-CD-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808468			**End Date:**	10/16/2009

Percent Solids:	58.4%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.9	0.0
#60	250	99.8	0.1
#80	180	99.8	0.1
#100	150	99.8	0.0
#200	75	98.3	1.5
Hydrometer	29.2	70.8	27.5
|	19.5	58.0	12.8
|	11.8	45.2	12.8
|	8.7	35.5	9.6
|	6.1	30.7	4.8
|	3.2	24.3	6.4
V	1.3	17.9	6.4

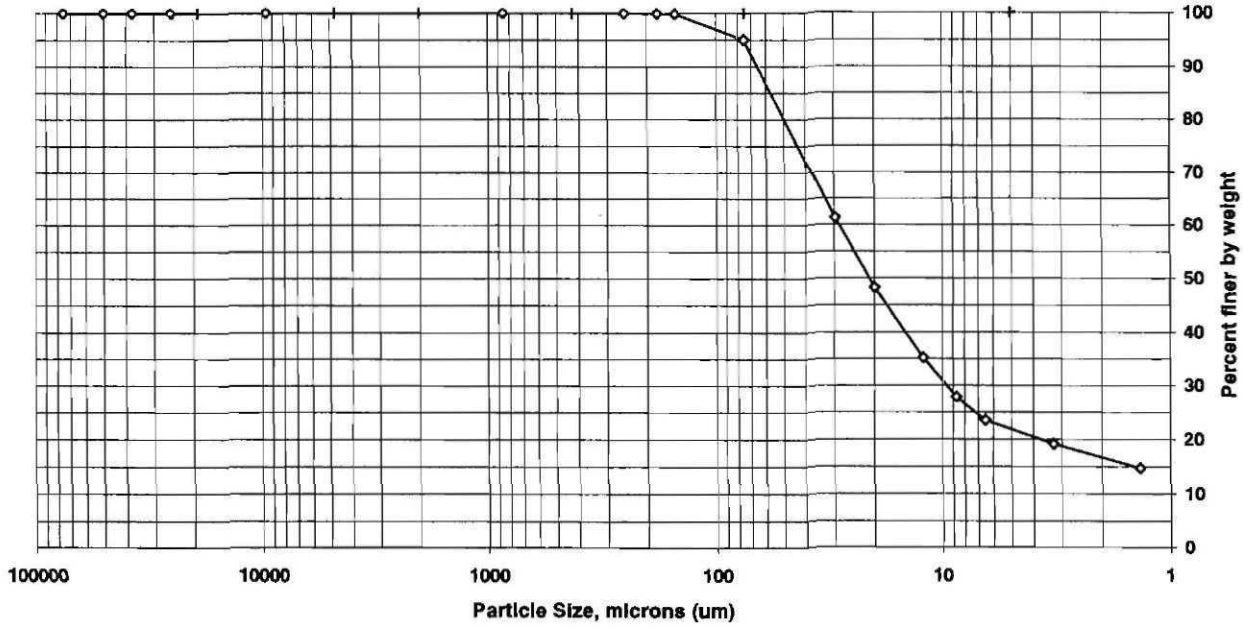
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	1.7
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	1.6
Silt	67.6
Clay	30.7

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR11-CE-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808469			**End Date:**	10/16/2009

Percent Solids:	63.6%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	100.0	0.0
#60	250	99.9	0.0
#80	180	99.9	0.1
#100	150	99.8	0.0
#200	75	95.1	4.8
Hydrometer	29.7	61.3	33.7
|	19.9	48.2	13.1
|	12.1	35.2	13.1
|	8.6	27.9	7.3
|	6.5	23.5	4.4
|	3.2	19.2	4.4
V	1.4	14.8	4.4

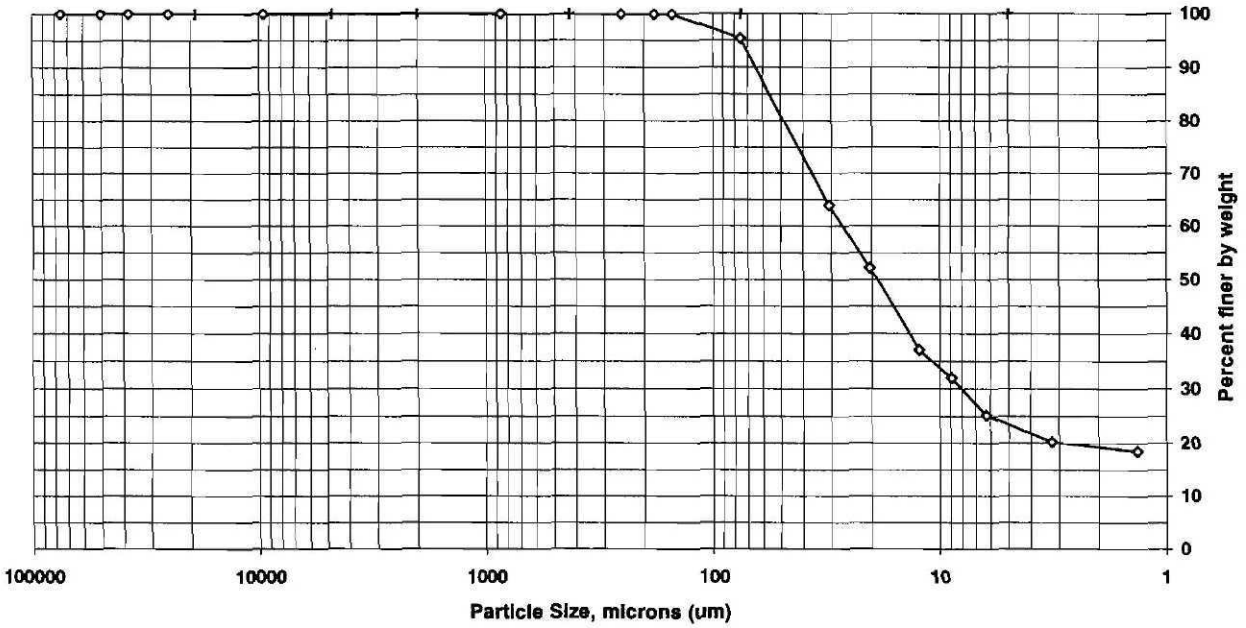
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	4.9
Coarse Sand	0.0
Medium Sand	0.0
Fine Sand	4.9
Silt	71.6
Clay	23.5

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR11-CF-092609	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808470			**End Date:**	10/14/2009

Percent Solids:	62.0%	**Non-soil material:**	na
Specific Gravity:	2.650	**Shape (> #10):**	na
Maximum Particle Size:	Med sand	**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.9	0.1
#60	250	99.9	0.0
#80	180	99.9	0.0
#100	150	99.9	0.0
#200	75	95.3	4.5
Hydrometer	30.7	63.9	31.4
	20.3	52.2	11.8
	12.3	37.0	15.1
	8.8	32.0	5.0
	6.2	25.2	6.7
	3.2	20.2	5.0
V	1.4	18.5	1.7

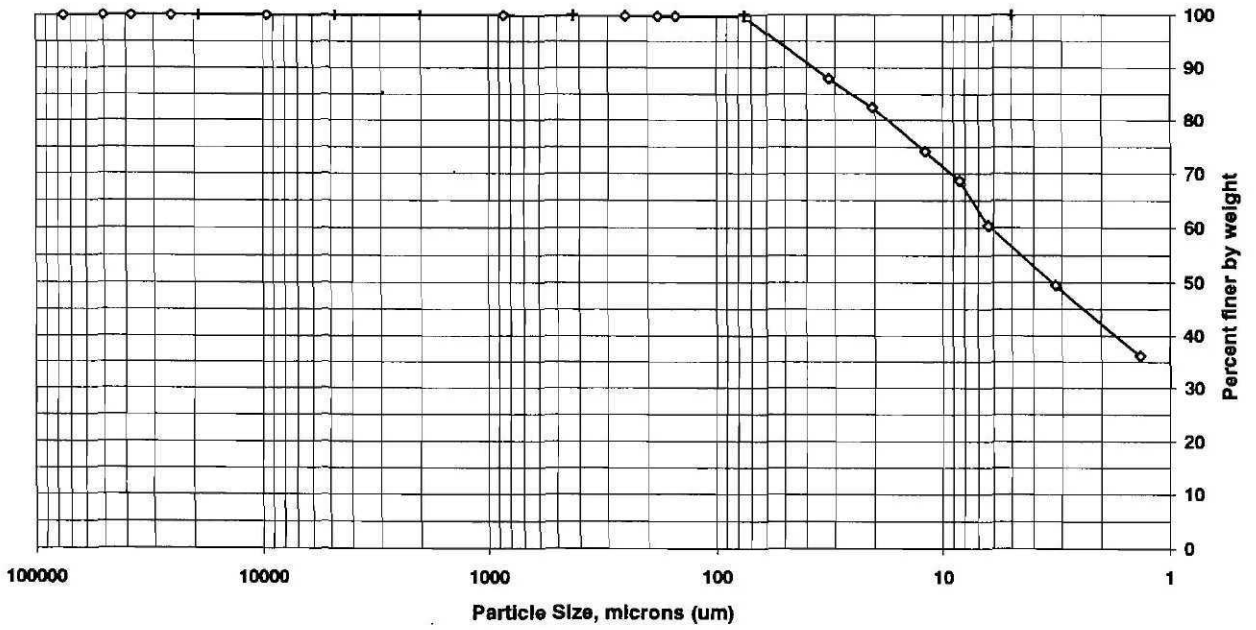
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	4.7
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	4.5
Silt	70.1
Clay	25.2

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041709	**Date Received:**	9/30/2009
Sample ID:	SDCR12-CG-092509	**ETR(s):**	133905	**Start Date:**	10/2/2009
Lab ID:	808471			**End Date:**	10/14/2009

Percent Solids:	37.9%	**Non-soil material:**	na
Specific Gravity:	2.650	**Shape (> #10):**	na
Maximum Particle Size:	Med sand	**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.8	0.2
#60	250	99.8	0.0
#80	180	99.7	0.0
#100	150	99.7	0.0
#200	75	99.6	0.1
Hydrometer	31.8	87.9	11.7
|	20.4	82.4	5.5
|	12.0	74.2	8.2
|	8.4	68.7	5.5
|	6.3	60.4	8.2
|	3.2	49.4	11.0
V	1.3	36.2	13.3

Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.4
Coarse Sand	0.0
Medium Sand	0.2
Fine Sand	0.2
Silt	39.2
Clay	60.4

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

DATA REPORTING QUALIFIERS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Lab Section	Qualifier	Description
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate exceeds the control limits
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	F	RPD of the MS and MSD exceeds the control limits

QUALITY CONTROL RESULTS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Method Blank - Batch: 700-73857

Method: 8081A
Preparation: 3550B

Lab Sample ID: MB 700-73857/1-A
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 10/10/2009 0056
Date Prepared: 10/06/2009 0847

Analysis Batch: 700-74174
Prep Batch: 700-73857
Units: ug/Kg

Instrument ID: SGZ
Lab File ID: Z100929.D
Initial Weight/Volume: 30.0 g
Final Weight/Volume: 5.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDT	3.3	U	0.54	3.3
4,4'-DDE	3.3	U	0.30	3.3
4,4'-DDD	3.3	U	0.34	3.3
2,4'-DDT	3.3	U	0.54	3.3
2,4'-DDE	3.3	U	0.30	3.3
2,4'-DDD	3.3	U	0.34	3.3
Hexachlorobenzene	3.3	U	3.3	3.3

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	82	30 - 150
Tetrachloro-m-xylene	68	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-73857

Method: 8081A
Preparation: 3550B

LCS Lab Sample ID: LCS 700-73857/2-A
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 10/09/2009 2354
Date Prepared: 10/06/2009 0847

Analysis Batch: 700-74174
Prep Batch: 700-73857
Units: ug/Kg

Instrument ID: SGZ
Lab File ID: Z100927.D
Initial Weight/Volume: 30.0 g
Final Weight/Volume: 5.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 700-73857/3-A
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 10/10/2009 0025
Date Prepared: 10/06/2009 0847

Analysis Batch: 700-74174
Prep Batch: 700-73857
Units: ug/Kg

Instrument ID: SGZ
Lab File ID: Z100928.D
Initial Weight/Volume: 30.0 g
Final Weight/Volume: 5.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4,4'-DDT	68	66	24 - 148	2	30		
4,4'-DDE	58	61	20 - 130	5	30		
4,4'-DDD	60	60	13 - 148	1	50		
Hexachlorobenzene	45	53		15			

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	55	53	30 - 150
Tetrachloro-m-xylene	40	49	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Method Blank - Batch: 700-73891

Method: 8081A
Preparation: 3550B

Lab Sample ID: MB 700-73891/1-A
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 10/12/2009 1234
Date Prepared: 10/06/2009 1457

Analysis Batch: 700-74474
Prep Batch: 700-73891
Units: ug/Kg

Instrument ID: SGZ
Lab File ID: Z101209.D
Initial Weight/Volume: 30.0 g
Final Weight/Volume: 5.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDT	3.3	U	0.54	3.3
4,4'-DDE	3.3	U	0.30	3.3
4,4'-DDD	3.3	U	0.34	3.3
2,4'-DDT	3.3	U	0.54	3.3
2,4'-DDE	3.3	U	0.30	3.3
2,4'-DDD	3.3	U	0.34	3.3
Hexachlorobenzene	3.3	U	3.3	3.3

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	76	30 - 150
Tetrachloro-m-xylene	48	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-73891

Method: 8081A
Preparation: 3550B

LCS Lab Sample ID: LCS 700-73891/2-A
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 10/12/2009 1132
Date Prepared: 10/06/2009 1457

Analysis Batch: 700-74474
Prep Batch: 700-73891
Units: ug/Kg

Instrument ID: SGZ
Lab File ID: Z101207.D
Initial Weight/Volume: 30.0 g
Final Weight/Volume: 5.0 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 700-73891/3-A
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 10/12/2009 1203
Date Prepared: 10/06/2009 1457

Analysis Batch: 700-74474
Prep Batch: 700-73891
Units: ug/Kg

Instrument ID: SGZ
Lab File ID: Z101208.D
Initial Weight/Volume: 30.0 g
Final Weight/Volume: 5.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4,4'-DDT	63	66	24 - 148	3	30		
4,4'-DDE	54	51	20 - 130	5	30		
4,4'-DDD	55	56	13 - 148	1	50		
Hexachlorobenzene	45	38		15			

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	49	50	30 - 150
Tetrachloro-m-xylene	41	34	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

TCLP SPLPE Leachate Blank - Batch: 700-73926

Method: 7470A
Preparation: 7470A
SPLP East

Lab Sample ID: LB 700-73858/1-B
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/07/2009 1309
Date Prepared: 10/06/2009 1500
Date Leached: 10/05/2009 1545

Analysis Batch: 700-73953
Prep Batch: 700-73926
Units: mg/L

Leachate Batch: 700-73858

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.0013	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-73926

Method: 7470A
Preparation: 7470A

LCS Lab Sample ID: LCS 700-73926/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/07/2009 1311
Date Prepared: 10/06/2009 1500

Analysis Batch: 700-73953
Prep Batch: 700-73926
Units: mg/L

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-73926/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/07/2009 1313
Date Prepared: 10/06/2009 1500

Analysis Batch: 700-73953
Prep Batch: 700-73926
Units: mg/L

Instrument ID: LEEMAN HYDRA AA HG
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	95	95	80 - 120	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-73926

Method: 7470A
Preparation: 7470A
SPLP East

MS Lab Sample ID:	700-41709-13	Analysis Batch: 700-73953	Instrument ID: LEEMAN HYDRA AA
Client Matrix:	Solid	Prep Batch: 700-73926	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	10/07/2009 1317		Final Weight/Volume: 40 mL
Date Prepared:	10/06/2009 1500		
Date Leached:	10/05/2009 1545	Leachate Batch: 700-73858	

MSD Lab Sample ID:	700-41709-13	Analysis Batch: 700-73953	Instrument ID: LEEMAN HYDRA AA HG4(
Client Matrix:	Solid	Prep Batch: 700-73926	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	10/07/2009 1319		Final Weight/Volume: 40 mL
Date Prepared:	10/06/2009 1500		
Date Leached:	10/05/2009 1545	Leachate Batch: 700-73858	

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	106	110	80 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Method Blank - Batch: 700-74210

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74210/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/14/2009 1304
Date Prepared: 10/13/2009 1400

Analysis Batch: 700-74271
Prep Batch: 700-74210
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74210

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-74210/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/14/2009 1306
Date Prepared: 10/13/2009 1400

Analysis Batch: 700-74271
Prep Batch: 700-74210
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-74210/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/14/2009 1308
Date Prepared: 10/13/2009 1400

Analysis Batch: 700-74271
Prep Batch: 700-74210
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	86	88	80 - 120	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-74210

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	700-41709-24	Analysis Batch: 700-74271	Instrument ID: LEEMAN HYDRA AA
Client Matrix:	Solid	Prep Batch: 700-74210	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.0523 g
Date Analyzed:	10/14/2009 1312		Final Weight/Volume: 40 mL
Date Prepared:	10/13/2009 1400		

MSD Lab Sample ID:	700-41709-24	Analysis Batch: 700-74271	Instrument ID: LEEMAN HYDRA AA HG4(
Client Matrix:	Solid	Prep Batch: 700-74210	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.0527 g
Date Analyzed:	10/14/2009 1314		Final Weight/Volume: 40 mL
Date Prepared:	10/13/2009 1400		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	69	146	80 - 120	47	20	F	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Method Blank - Batch: 700-74216

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74216/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/14/2009 1502
Date Prepared: 10/13/2009 1700

Analysis Batch: 700-74275
Prep Batch: 700-74216
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74216

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-74216/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/14/2009 1504
Date Prepared: 10/13/2009 1700

Analysis Batch: 700-74275
Prep Batch: 700-74216
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-74216/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/14/2009 1505
Date Prepared: 10/13/2009 1700

Analysis Batch: 700-74275
Prep Batch: 700-74216
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	90	91	80 - 120	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-74216

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	700-41709-5MS	Analysis Batch: 700-74275	Instrument ID: LEEMAN HYDRA AA
Client Matrix:	Solid	Prep Batch: 700-74216	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.0996 g
Date Analyzed:	10/14/2009 1510		Final Weight/Volume: 40 mL
Date Prepared:	10/13/2009 1700		

MSD Lab Sample ID:	700-41709-5MSD	Analysis Batch: 700-74275	Instrument ID: LEEMAN HYDRA AA HG4(
Client Matrix:	Solid	Prep Batch: 700-74216	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.0998 g
Date Analyzed:	10/14/2009 1511		Final Weight/Volume: 40 mL
Date Prepared:	10/13/2009 1700		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	99	111	80 - 120	11	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Method Blank - Batch: 700-74247

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74247/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/15/2009 0918
Date Prepared: 10/14/2009 1700

Analysis Batch: 700-74276
Prep Batch: 700-74247
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74247

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-74247/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/15/2009 0920
Date Prepared: 10/14/2009 1700

Analysis Batch: 700-74276
Prep Batch: 700-74247
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-74247/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/15/2009 0921
Date Prepared: 10/14/2009 1700

Analysis Batch: 700-74276
Prep Batch: 700-74247
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	92	89	80 - 120	3	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Method Blank - Batch: 700-74376

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74376/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/19/2009 1242
Date Prepared: 10/16/2009 1630

Analysis Batch: 700-74432
Prep Batch: 700-74376
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74376

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-74376/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/19/2009 1244
Date Prepared: 10/16/2009 1630

Analysis Batch: 700-74432
Prep Batch: 700-74376
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-74376/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/19/2009 1246
Date Prepared: 10/16/2009 1630

Analysis Batch: 700-74432
Prep Batch: 700-74376
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	107	106	80 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-74376

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	700-41709-20	Analysis Batch: 700-74432	Instrument ID: LEEMAN HYDRA AA
Client Matrix:	Solid	Prep Batch: 700-74376	Lab File ID: N/A
Dilution:	5.0		Initial Weight/Volume: 0.0950 g
Date Analyzed:	10/19/2009 1313		Final Weight/Volume: 40 mL
Date Prepared:	10/16/2009 1630		

MSD Lab Sample ID:	700-41709-20	Analysis Batch: 700-74432	Instrument ID: LEEMAN HYDRA AA HG4(
Client Matrix:	Solid	Prep Batch: 700-74376	Lab File ID: N/A
Dilution:	5.0		Initial Weight/Volume: 0.0955 g
Date Analyzed:	10/19/2009 1315		Final Weight/Volume: 40 mL
Date Prepared:	10/16/2009 1630		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	67	10	80 - 120	12	20	4	4

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41709-1

Method Blank - Batch: 700-74502

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74502/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/21/2009 1305
Date Prepared: 10/21/2009 1000

Analysis Batch: 700-74513
Prep Batch: 700-74502
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74502

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-74502/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/21/2009 1308
Date Prepared: 10/21/2009 1000

Analysis Batch: 700-74513
Prep Batch: 700-74502
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-74502/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/21/2009 1310
Date Prepared: 10/21/2009 1000

Analysis Batch: 700-74513
Prep Batch: 700-74502
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	93	95	80 - 120	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Mobile

TA Mobile
900 Lakeside Drive
Mobile, AL 36693
www.testamericainc.com
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Fax: (251) 666-6696

Alternate Laboratory Name/Location:
Phone:
Fax:

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Olin McIntosh OU-2	PROJECT NO.: 6107090036	PROJECT LOCATION (STATE): AL	PAGE 1 OF 3
(LAB) PROJECT MANAGER: Charles Newton	P. O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY ●
CLIENT (SITE) PM: Keith Roberts	CLIENT PHONE: 423336 4388	CLIENT FAX: 4233364166	DATE DUE:
CLIENT NAME: Olin Corporation	CLIENT EMAIL: kdroberts@olin.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS: 3855 N Ocoee St. Cleveland TN 37312			DATE DUE:
COMPANY CONTRACTING THIS WORK (if applicable): MALCEC	SAMPLER'S SIGNATURE: [signature]		NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT...)

REQUIRED ANALYSES: THg (7471); TOC (9060); Density; Grain Size; HCB (8270C); DDT/E (8081A)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	THg (7471)	TOC (9060)	Density	Grain Size	HCB (8270C)	DDT/E (8081A)					REMARKS
		NUMBER OF CONTAINERS SUBMITTED						1	1	1	1	1	1					
9/25/09	15:10	SDCR12-CA-092509	G	X						X	X							
9/25/09	15:20	SDCR12-CB-092509	G	X						X	X							
9/25/09	15:19	SDCR12-CC-092509	G	X				X										
9/25/09	15:29	SDCR12-CD-092509	G	X				X		X	X							
9/25/09	15:40	SDCR12-CE-092509	G	X				X		X	X							
9/25/09	15:49	SDCR-CF-092509	G	X				X		X	X							
9/25/09	15:40	SDCR12-CE-092509(MS/MSD)	G	X				X										
9/26/09	9:38	SDCR13-CA-092609	G	X				X		X	X		X					
9/26/09	9:48	SDCR13-CB-092609	G	X				X		X	X		X					
9/26/09	9:57	SDCR13-CC-092609	G	X				X		X	X		X					
9/26/09	10:03	SDCR13-CD-092609	G	X				X		X	X		X					
9/26/09	10:12	SDCR13-CE-092609	G	X				X		X	X		X					

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9/26/09	1600	[signature]	9/26/09	1656			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]	9/26/09	1600	[signature]	9/26/09	1656			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
[signature]	9/26/09	1656		700-41709		1.1 1.9 1.3 °C LTA 014

Original - Return to Laboratory with Sample(s)

11/03/2009

Serial Number

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Mobile

TA Mobile
900 Lakeside Drive
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www.testamericainc.com
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Fax: (251) 666-6696

Alternate Laboratory Name/Location:
Phone:
Fax:

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Olin McIntosh Qtr	PROJECT NO.: 6107090036	PROJECT LOCATION (STATE): AL
(LAB) PROJECT MANAGER: Charles Newton	P. O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: Keith Roberts	CLIENT PHONE: 423.336.4388	CLIENT FAX: 423.336.4166
CLIENT NAME: Olin Corporation	CLIENT EMAIL: kdroberts@olin.com	
CLIENT ADDRESS: 3855 N Ocoee Street Cleveland TN 37312		
COMPANY CONTRACTING THIS WORK (if applicable): MACTEC	SAMPLER'S SIGNATURE: [signature]	

PAGE 2 OF 3

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: ice ice ice ice ice ice

REQUIRED ANALYSES / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	THg	Density	Grainsize	HCB (8270C)	DDTR (8081A)	SPLP Hg				REMARKS
9/26/09	12:00	SDCR-~~CDUP01~~ CDUP10-0926 09	G	X				X				X					
9/26/09	11:19	SDCR9-CA-0926 09	G	X				X	X	X		X	X				
9/26/09	11:27	SDCR9-CB-0926 09	G	X				X	X	X		X					
9/26/09	11:32	SDCR9-CC-0926 09	G	X				X	X	X		X					
9/26/09	11:40	SDCR9-CD-0926 09	G	X				X	X	X		X					
9/26/09	11:48	SDCR9-CE-0926 09	G	X				X	X	X		X					
9/26/09	12:00	~~SDCR9~~ SDCR-~~C~~DUP07-0926 09	G	X				X				X					
9/26/09	12:00	SDCR-CDUP08-0926 09	G	X				X									
9/26/09	13:21	~~SDCR~~ SDCR10-CA-0926 09	G	X				X	X	X							
9/26/09	13:27	SDCR10-CB-0926 09	G	X				X	X	X							
9/26/09	13:36	SDCR10-CC-0926 09	G	X				X	X	X							
9/26/09	13:42	SDCR10-CD-0926 09	G	X				X	X	X							

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9/26/09	16:00	[signature]	9/26/09	1656			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]	9/26/09	16:00	[signature]	9/26/09	1656			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES / NO	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
[signature]	9/26/09	1656		700-41709		1.7 1.9 13°C L1A0114

Original - Return to Laboratory with Sample(s)

11/03/2009

Serial Number

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Mobile

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

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Fax: (251) 666-6696

Alternate Laboratory Name/Location:
Phone:
Fax:

PROJECT REFERENCE: Olin McIntosh OU-2	PROJECT NO.: 6107090036	PROJECT LOCATION (STATE): AL	PAGE 3 OF 3
(LAB) PROJECT MANAGER: Charles Newton	P. O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY ●
CLIENT (SITE) PM: Keith Roberts	CLIENT PHONE: 423.336.4388	CLIENT FAX: 423.336.4166	DATE DUE:
CLIENT NAME: Olin Corporation	CLIENT EMAIL: kdroberts@olin.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS: 3855 N. Ocoee St. Cleveland TN 37312			DATE DUE:
COMPANY CONTRACTING THIS WORK (if applicable): HALTEC	SAMPLER'S SIGNATURE:		NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT...)

REQUIRED ANALYSES: Hg (7471); Density; Bromide; Hexachlorobutadiene (8270C); DDT/R (8081)

PRESERVATIVE: ice; ice; ice; ice; ice

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	Hg (7471)	Density	Bromide	Hexachlorobutadiene (8270C)	DDT/R (8081)	REMARKS
9/26/09	13:48	SDCR10-CE-092609	G		X			X		X	X		
9/26/09	13:48	SDCR10-CE-092609 (MS/MSD)	G		X			X					
9/26/09	12:00	SDCR-CDUP09-092609	G		X			X					
X 9/26/09	14:44	SDCR11-CA-092609	G		X					X	X		
X 9/26/09	14:52	SDCR11-CB-092609	G		X					X	X		
9/26/09	14:50	SDCR11-CC-092609	G		X			X		X			
9/26/09	14:55	SDCR11-CD-092609	G		X			X		X	X		
9/26/09	15:00	SDCR11-CE-092609	G		X			X		X	X		
9/26/09	15:05	SDCR11-CF-092609	G		X			X		X	X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9/26/09	16:00	[signature]	9-26-09	1656			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]	9/26/09	16:00	[signature]	9/26/09	1656			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES / NO	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
[signature]	9/26/09	1656		00-H709		1.7 1.9 1.3°C LH014

Original - Return to Laboratory with Sample(s)

11/03/2009

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 700-41726-2

Job Description: Olin McIntosh OU-2 6107090036

For:
MACTEC Engineering and Consulting Inc
3200 Town Point Drive Northwest
Suite 100
Kennesaw, GA 30144

Attention: Mr. David Knaub

Approved for release.
Amanda Catrett
Project Manager I
10/30/2009 3:08 PM

Amanda Catrett
Project Manager I
amanda.catrett@testamericainc.com
10/30/2009

cc: Cynthia Draper
Heidi Fogell

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
700-41726-1	**SDCR2-CL-092409**				
Percent Moisture		41	0.10	%	2540G
Percent Solids		59	0.10	%	2540G

METHOD SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-2

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Mercury (CVAA)	TAL MOB	SW846 7471A	
Preparation, Mercury	TAL MOB		SW846 7471A
2540G	TAL MOB	SM18 2540G	

Lab References:

TAL MOB = TestAmerica Mobile

Method References:

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-2

Method	Analyst	Analyst ID
SW846 7471A	Mathews, Robert	RDM
SM18 2540G	Phanthapannha, Charles F	CFP

SAMPLE SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
700-41726-1	SDCR2-CL-092409	Solid	09/24/2009 1506	09/28/2009 1600

SAMPLE RESULTS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-2

Client Sample ID: **SDCR2-CL-092409**

Lab Sample ID: 700-41726-1
Client Matrix: Solid
% Moisture: 41.1

Date Sampled: 09/24/2009 1506
Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74222		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74125		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.069 g
Date Analyzed:	10/13/2009 1049			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.20	U	0.14	0.20

General Chemistry

Client Sample ID: **SDCR2-CL-092409**

Lab Sample ID: 700-41726-1

Client Matrix: Solid

Date Sampled: 09/24/2009 1506

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	41		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N
Percent Solids	59		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-2

Lab Section	Qualifier	Description
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	F	RPD of the MS and MSD exceeds the control limits

QUALITY CONTROL RESULTS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-2

Method Blank - Batch: 700-74125

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74125/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1002
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74222
Prep Batch: 700-74125
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74125

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-74125/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1004
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74222
Prep Batch: 700-74125
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-74125/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1005
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74222
Prep Batch: 700-74125
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	91	92	80 - 120	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-2

Method Blank - Batch: 700-74252

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74252/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/15/2009 1154
Date Prepared: 10/14/2009 1030

Analysis Batch: 700-74284
Prep Batch: 700-74252
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74252

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-74252/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/15/2009 1156
Date Prepared: 10/14/2009 1030

Analysis Batch: 700-74284
Prep Batch: 700-74252
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-74252/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/15/2009 1158
Date Prepared: 10/14/2009 1030

Analysis Batch: 700-74284
Prep Batch: 700-74252
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	91	92	80 - 120	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-74252

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	700-41726-1	Analysis Batch: 700-74284	Instrument ID: LEEMAN HYDRA AA
Client Matrix:	Solid	Prep Batch: 700-74252	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.44 g
Date Analyzed:	10/15/2009 1202		Final Weight/Volume: 40 mL
Date Prepared:	10/14/2009 1030		

MSD Lab Sample ID:	700-41726-1	Analysis Batch: 700-74284	Instrument ID: LEEMAN HYDRA AA HG4(
Client Matrix:	Solid	Prep Batch: 700-74252	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.44 g
Date Analyzed:	10/15/2009 1204		Final Weight/Volume: 40 mL
Date Prepared:	10/14/2009 1030		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	85	56	80 - 120	28	20		F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Sediment - archive

Serial Number

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Mobile

TA Mobile
900 Lakeside Drive
Mobile, AL 36693
www.testamericainc.com
Phone: (251) 666-6633
Fax: (251) 666-6696

Alternate Laboratory Name/Location:
Phone:
Fax:

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Olin McIntosh OU2	PROJECT NO.: 6107090036	PROJECT LOCATION (STATE): AL
(LAB) PROJECT MANAGER: Charles Newton	P. O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: Keith Roberts	CLIENT PHONE: 4233364388	CLIENT FAX: 423.336.4166
CLIENT NAME: Keith Roberts, Jr	CLIENT EMAIL: kdroberts@	
CLIENT ADDRESS: 3855 North Ocoee St. Cleveland TN 37312		
COMPANY CONTRACTING THIS WORK (if applicable): MACTEC	SAMPLER'S SIGNATURE: [signature]	

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	Thg (7471)	TOC (9060)	Density (SM2710)	Grain Size (D422)	8081A (8270C)	HCB (8270C)	DDTC (8081A)				REMARKS
								ice	ice	ice	ice	ice	ice					
								NUMBER OF CONTAINERS SUBMITTED										
9/24/09	15:06	SDCR2-CL-092409	G	X				X		X	X	X						Archive Samples until notified by MACTEC
~~9/23/09~~	~~15:59~~	~~SDCR12-CG-092309~~	G	X				X		X	X							
9/24/09	10:19	SDCR13-CF-092609	G	X				X		X	X		X					
9/26/09	11:56	SDCR9-CF-092609	G	X				X		X	X		X					
9/26/09	13:55	SDCR10-CF-092609	G	X				X		X	X							
9/26/09	15:09	SDCR11-CG-092609	G	X				X		X	X							
9/27/09	10:12	SDCR4-CI-092709	G	X				X		X	X							
9/27/09	11:43	SDCR5-CI-092709	G	X				X		X	X							
9/27/09	14:02	SDCR6-CI-092709	G	X				X		X	X							
9/27/09	14:52	SDCR7-CI-092709	G	X				X		X	X							
9/28/09	16:25	SDCR3-CL-092709	G	X				X		X	X	X	X					
9/28/09	9:20	SDCR8-CL-092809	G	X				X		X	X	X	X					

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9/28/09	1600	[signature]	9/28/09				
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]	9/28/09	1600						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
[signature]	9/28/09	16:00	YES ○ NO ○		700-41726	2.5 3.8 2.3 3.4 3.6 3.9

LTA 3/4

Original - Return to Laboratory with Sample(s)

700- 41726

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10/30/2009

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 700-41726-3

Job Description: Olin McIntosh OU-2 6107090036

For:
MACTEC Engineering and Consulting Inc
3200 Town Point Drive Northwest
Suite 100
Kennesaw, GA 30144

Attention: Mr. David Knaub

Approved for release.
Amanda Catrett
Project Manager I
12/18/2009 2:11 PM

Amanda Catrett
Project Manager I
amanda.catrett@testamericainc.com
12/18/2009

cc: Cynthia Draper
Heidi Fogell

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-3

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
700-41726-3	**SDCR9-CF-092609**					
Mercury		0.14		0.036	mg/Kg	7471A
Percent Moisture		56		0.10	%	2540G
Percent Solids		44		0.10	%	2540G
700-41726-4	**SDCR10-CF-092609**					
Mercury		0.35		0.24	mg/Kg	7471A
Percent Moisture		58		0.10	%	2540G
Percent Solids		42		0.10	%	2540G
700-41726-6	**SDCR4-CI-092709**					
Mercury		0.11		0.032	mg/Kg	7471A
Percent Moisture		52		0.10	%	2540G
Percent Solids		48		0.10	%	2540G
700-41726-7	**SDCR5-CI-092709**					
Mercury		0.55		0.23	mg/Kg	7471A
Percent Moisture		52		0.10	%	2540G
Percent Solids		48		0.10	%	2540G
700-41726-11	**SDCR8-CL-092809**					
4,4'-DDE		360	H	65	ug/Kg	8081A
4,4'-DDD		93	H	65	ug/Kg	8081A
2,4'-DDE		480	H	65	ug/Kg	8081A
2,4'-DDD		88	H	65	ug/Kg	8081A
Mercury		63		5.4	mg/Kg	7471A
Percent Moisture		49		0.10	%	2540G
Percent Solids		51		0.10	%	2540G

METHOD SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-3

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Organochlorine Pesticides (GC)	TAL MOB	SW846 8081A	
Ultrasonic Extraction	TAL MOB		SW846 3550B
Mercury (CVAA)	TAL MOB	SW846 7471A	
Preparation, Mercury	TAL MOB		SW846 7471A
2540G	TAL MOB	SM18 2540G	
General Sub Contract Method	TAL BUR	Subcontract	

Lab References:

TAL BUR = TestAmerica Burlington

TAL MOB = TestAmerica Mobile

Method References:

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-3

Method	Analyst	Analyst ID
SW846 8081A	Pel, Mya B	MBP
SW846 7471A	Mathews, Robert	RDM
SM18 2540G	Norvang, Vanyda A	VAN
SM18 2540G	Phanthapannha, Charles F	CFP

SAMPLE SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-3

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
700-41726-3	SDCR9-CF-092609	Solid	09/26/2009 1156	09/28/2009 1600
700-41726-4	SDCR10-CF-092609	Solid	09/26/2009 1355	09/28/2009 1600
700-41726-6	SDCR4-CI-092709	Solid	09/27/2009 1012	09/28/2009 1600
700-41726-7	SDCR5-CI-092709	Solid	09/27/2009 1143	09/28/2009 1600
700-41726-11	SDCR8-CL-092809	Solid	09/28/2009 0920	09/28/2009 1600

SAMPLE RESULTS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-3

Client Sample ID: **SDCR9-CF-092609**

Lab Sample ID: 700-41726-3
Client Matrix: Solid
% Moisture: 55.6

Date Sampled: 09/26/2009 1156
Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-76474		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73891		Initial Weight/Volume:	30.0 g
Dilution:	5.0			Final Weight/Volume:	5.0 mL
Date Analyzed:	12/04/2009 1744			Injection Volume:	2 uL
Date Prepared:	10/06/2009 1457			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		7.4	U H	1.2	7.4
4,4'-DDE		7.4	U H	0.68	7.4
4,4'-DDD		7.4	U H	0.77	7.4
2,4'-DDT		7.4	U H	1.2	7.4
2,4'-DDE		7.4	U H	0.68	7.4
2,4'-DDD		7.4	U H	0.77	7.4

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	62		30 - 150
Tetrachloro-m-xylene	51		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-3

Client Sample ID: **SDCR8-CL-092809**

Lab Sample ID: 700-41726-11
Client Matrix: Solid
% Moisture: 48.9

Date Sampled: 09/28/2009 0920
Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-76474		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-76194		Initial Weight/Volume:	6 g
Dilution:	10			Final Weight/Volume:	5 mL
Date Analyzed:	12/03/2009 1803			Injection Volume:	2 uL
Date Prepared:	12/02/2009 1213			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		65	U H	11	65
4,4'-DDE		360	H	5.9	65
4,4'-DDD		93	H	6.6	65
2,4'-DDT		65	U H	11	65
2,4'-DDE		480	H	5.9	65
2,4'-DDD		88	H	6.6	65

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	191	X	30 - 150
Tetrachloro-m-xylene	31		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-3

Client Sample ID: **SDCR9-CF-092609**

Lab Sample ID: 700-41726-3
Client Matrix: Solid
% Moisture: 55.6

Date Sampled: 09/26/2009 1156
Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74284		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74252		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.50 g
Date Analyzed:	10/15/2009 1208			Final Weight/Volume:	40 mL
Date Prepared:	10/14/2009 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.14		0.025	0.036

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-3

Client Sample ID: **SDCR10-CF-092609**

Lab Sample ID: 700-41726-4
Client Matrix: Solid
% Moisture: 58.3

Date Sampled: 09/26/2009 1355
Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74222		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74125		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.079 g
Date Analyzed:	10/13/2009 1054			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.35		0.17	0.24

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-3

Client Sample ID: **SDCR4-CI-092709**

Lab Sample ID: 700-41726-6
Client Matrix: Solid
% Moisture: 52.1

Date Sampled: 09/27/2009 1012
Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74284		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74252		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.53 g
Date Analyzed:	10/15/2009 1211			Final Weight/Volume:	40 mL
Date Prepared:	10/14/2009 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.11		0.022	0.032

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-3

Client Sample ID: **SDCR5-CI-092709**

Lab Sample ID: 700-41726-7
Client Matrix: Solid
% Moisture: 51.7

Date Sampled: 09/27/2009 1143
Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74239		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74127		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.071 g
Date Analyzed:	10/13/2009 1224			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.55		0.16	0.23

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-3

Client Sample ID: **SDCR8-CL-092809**

Lab Sample ID: 700-41726-11
Client Matrix: Solid
% Moisture: 48.9

Date Sampled: 09/28/2009 0920
Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74239		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74127		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.058 g
Date Analyzed:	10/13/2009 1415			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		63		3.8	5.4

General Chemistry

Client Sample ID: **SDCR9-CF-092609**

Lab Sample ID: 700-41726-3
Client Matrix: Solid

Date Sampled: 09/26/2009 1156
Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	56		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N
Percent Solids	44		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73803	Date Analyzed: 10/02/2009 1715						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-3

General Chemistry

Client Sample ID: **SDCR10-CF-092609**

Lab Sample ID: 700-41726-4

Client Matrix: Solid

Date Sampled: 09/26/2009 1355

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	58		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-74430	Date Analyzed: 10/19/2009 1615						DryWt Corrected: N
Percent Solids	42		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-74430	Date Analyzed: 10/19/2009 1615						DryWt Corrected: N

General Chemistry

Client Sample ID: SDCR4-CI-092709

Lab Sample ID: 700-41726-6

Client Matrix: Solid

Date Sampled: 09/27/2009 1012

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	52		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N
Percent Solids	48		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR5-CI-092709**

Lab Sample ID: 700-41726-7
Client Matrix: Solid

Date Sampled: 09/27/2009 1143
Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	52		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N
Percent Solids	48		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N

General Chemistry

Client Sample ID: SDCR8-CL-092809

Lab Sample ID: 700-41726-11

Client Matrix: Solid

Date Sampled: 09/28/2009 0920

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	49		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N
Percent Solids	51		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N

TestAmerica
South Burlington, VT

Sample Data Summary Package

70041726

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

December 1, 2009

Ms. Amanda Catrett
TestAmerica, Inc.
900 Lakeside Drive
Mobile, AL 36693

Re: Laboratory Project No. 29023
Case: MACTEC; SDG: 70041726

Dear Ms. Catrett:

Enclosed are the analytical results for the samples that were received by TestAmerica Burlington on November 11th, 2009. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 11/11/09 ETR No: 134700		
813705	SDCR10-CF-092609	09/26/09	SOIL
813706	SDCR8-CL-092809	09/28/09	SOIL

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

The samples were analyzed for particle size by ASTM D422 and for density by ASTM D2937. The density results do not represent the in-place density of the soil. The samples were received in a disturbed state, and subsequent to receipt, the laboratory molded the samples into Shelby tubes, and performed the tests accordingly.

Any reference within this report to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.) The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

If there are any questions regarding this submittal, please contact me at 802 660-1990.

Sincerely,

Steve Timmons
Customer Service Manager

TestAmerica Mobile
900 Lakeside Drive
Mobile, AL 36693
Phone (251) 666-6633 Fax (251) 666-6696

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Catrett, Amanda	Carrier Tracking No(s):	COC No: 700-6584.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: amanda.catrett@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 700-41726-3
Address: 30 Community Drive, Suite 11,	Due Date Requested: 10/29/2009			
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel)	PO #:			
Email:	WO #:			
Project Name: Olin McIntosh OU-2 6107090036	Project #: 70003229			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT/ Grain Size	SUBCONTRACT/ Bulk Density	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SDCR10-CF-092609 (700-41726-4)	9/26/09	13:55		Solid			X	X	1	

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time: 11/10/09	Company	Received by:	Date/Time: 11/11/09 1014	Company TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

12/18/2009

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Data Summary – Geotechnical

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR10-CF-092609

Lab Name: TestAmerica Burlington | Contract: 700-41726-3 | SDG No.: 70041726

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 813705

Matrix: SOIL | Client: STLALM | Date Received: 11/11/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	11/20/09		g/cm3	1	0.0	0.54	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR8-CL-092809

Lab Name: TestAmerica Burlington | Contract: 700-41726-3 | SDG No.: 70041726

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 813706

Matrix: SOIL | Client: STLALM | Date Received: 11/11/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	11/20/09		g/cm3	1	0.0	0.86	

ASTM Method D2937: Standard Test Method for Density of Soil in Place by the Drive-Cylinder Method Calculations

Client Code: STLALM
ETR: 134700
SDG: 70041726

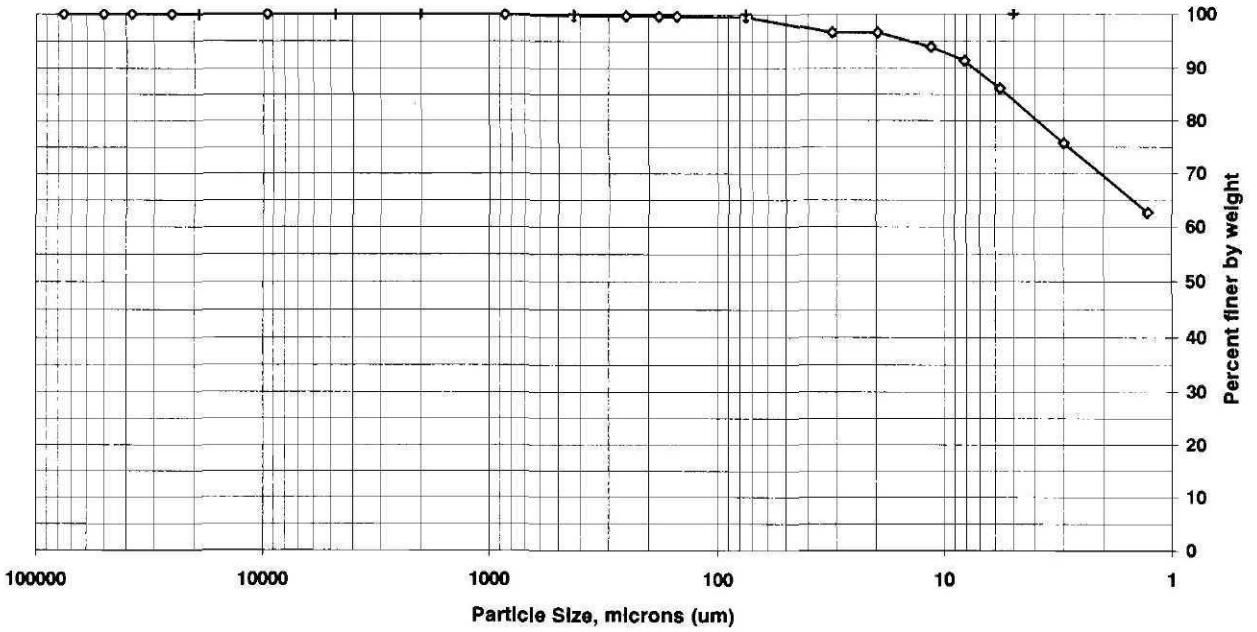
Start Date: 11/20/2009
Start Time: 2245
End Date: 11/23/2009
Analyst: MAP

	Weight Of					Measurement of							
Laboratory Number	Container (g)	Container + Sample (g)	Pan (g)	Pan + Wet Sample (g)	Pan + Dry Sample (g)	Sample Recovery (cm)	Container Diameter (cm)	Area (cm^2)	Wet Sample (g)	Dry Mass Basis (%)	Sample Volume (cm^3)	Dry Mass (g)	In-Place Density (g/cm^3)
813705	117.01	269.61	4.11	65.94	29.13	4.80	5.50	23.76	152.60	147.1%	114.04	61.75	0.54
813706	118.81	299.04	4.07	91.30	53.39	4.97	5.50	23.76	180.23	76.9%	118.08	101.90	0.86

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041726	**Date Received:**	11/11/2009
Sample ID:	SDCR10-CF-092609	**ETR(s):**	134700	**Start Date:**	11/16/2009
Lab ID:	813705			**End Date:**	11/30/2009

Percent Solids:	40.5%	**Non-soil material:**	na
Specific Gravity:	2.650	**Shape (> #10):**	na
Maximum Particle Size:	Med sand	**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.6	0.3
#60	250	99.6	0.0
#80	180	99.6	0.0
#100	150	99.6	0.0
#200	75	99.4	0.1
Hydrometer	31.2	96.6	2.9
|	19.8	96.6	0.0
|	11.5	94.0	2.6
|	8.2	91.4	2.6
|	5.7	86.1	5.2
|	3.0	75.7	10.4
V	1.3	62.6	13.1

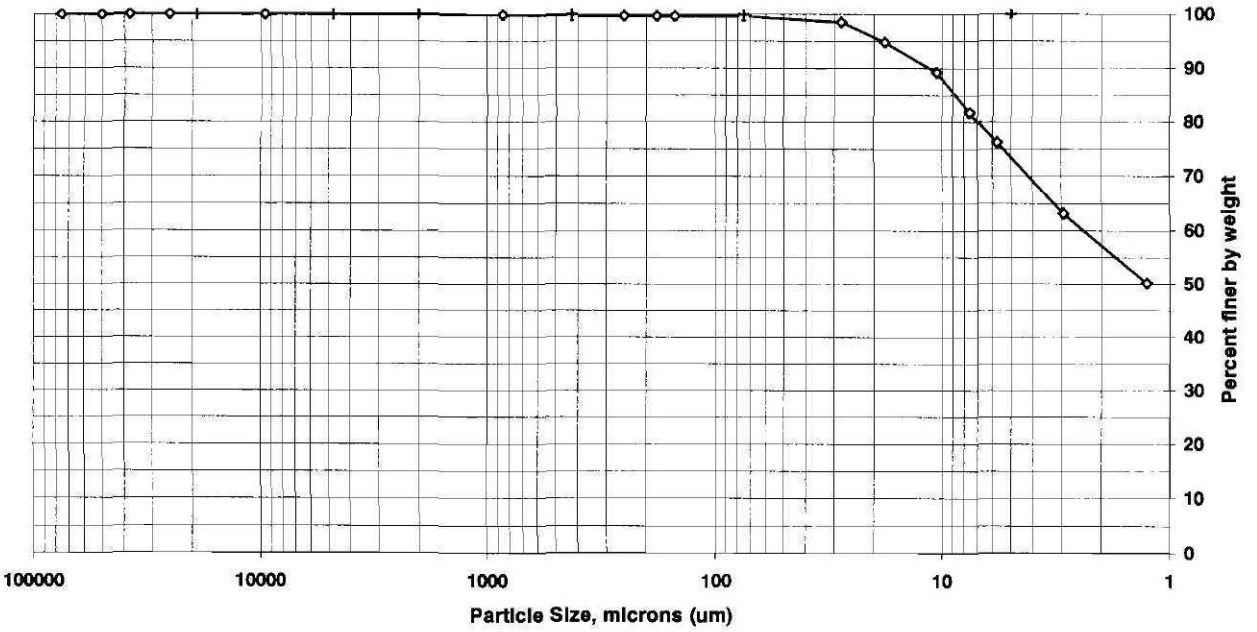
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.6
Coarse Sand	0.0
Medium Sand	0.4
Fine Sand	0.2
Silt	13.3
Clay	86.1

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041726	**Date Received:**	11/11/2009
Sample ID:	SDCR8-CL-092809	**ETR(s):**	134700	**Start Date:**	11/16/2009
Lab ID:	813706			**End Date:**	11/30/2009

Percent Solids:	56.5%	**Non-soil material:**	na
Specific Gravity:	2.650	**Shape (> #10):**	na
Maximum Particle Size:	Med sand	**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.7	0.2
#60	250	99.7	0.0
#80	180	99.7	0.0
#100	150	99.7	0.0
#200	75	99.7	0.0
Hydrometer	27.9	98.5	1.2
|	17.9	94.8	3.7
|	10.6	89.2	5.6
|	7.6	81.8	7.4
|	5.7	76.2	5.6
|	2.9	63.2	13.0
V	1.3	50.2	13.0

Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.3
Coarse Sand	0.0
Medium Sand	0.3
Fine Sand	0.0
Silt	23.5
Clay	76.2

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

DATA REPORTING QUALIFIERS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-3

Lab Section	Qualifier	Description
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	H	Sample was prepped or analyzed beyond the specified holding time
	X	Surrogate exceeds the control limits
Metals		
	U	Indicates the analyte was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-3

Method Blank - Batch: 700-76194

Method: 8081A
Preparation: 3550B

Lab Sample ID: MB 700-76194/1-A
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 12/02/2009 2014
Date Prepared: 12/02/2009 1213

Analysis Batch: 700-76474
Prep Batch: 700-76194
Units: ug/Kg

Instrument ID: SGZ
Lab File ID: Z120214.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 5 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDT	3.3	U	0.54	3.3
4,4'-DDE	3.3	U	0.30	3.3
4,4'-DDD	3.3	U	0.34	3.3
2,4'-DDT	3.3	U	0.54	3.3
2,4'-DDE	3.3	U	0.30	3.3
2,4'-DDD	3.3	U	0.34	3.3
Hexachlorobenzene	3.3	U	3.3	3.3

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	73	30 - 150
Tetrachloro-m-xylene	43	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-3

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-76194

Method: 8081A
Preparation: 3550B

LCS Lab Sample ID: LCS 700-76194/2-A
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 12/02/2009 1912
Date Prepared: 12/02/2009 1213

Analysis Batch: 700-76474
Prep Batch: 700-76194
Units: ug/Kg

Instrument ID: SGZ
Lab File ID: Z120212.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 5 mL
Injection Volume: 2 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 700-76194/3-A
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 12/02/2009 1943
Date Prepared: 12/02/2009 1213

Analysis Batch: 700-76474
Prep Batch: 700-76194
Units: ug/Kg

Instrument ID: SGZ
Lab File ID: Z120213.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 5 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4,4'-DDT	85	91	24 - 148	6	30		
4,4'-DDE	76	77	20 - 130	1	30		
4,4'-DDD	91	94	13 - 148	3	50		
Hexachlorobenzene	61	55		9			

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	73	76	30 - 150
Tetrachloro-m-xylene	57	51	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-3

Method Blank - Batch: 700-74125

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74125/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1002
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74222
Prep Batch: 700-74125
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74125

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-74125/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1004
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74222
Prep Batch: 700-74125
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-74125/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1005
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74222
Prep Batch: 700-74125
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	91	92	80 - 120	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-3

Method Blank - Batch: 700-74127

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74127/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1152
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74239
Prep Batch: 700-74127
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74127

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-74127/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1154
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74239
Prep Batch: 700-74127
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-74127/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1155
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74239
Prep Batch: 700-74127
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	96	97	80 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41726-3

Method Blank - Batch: 700-74252

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74252/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/15/2009 1154
Date Prepared: 10/14/2009 1030

Analysis Batch: 700-74284
Prep Batch: 700-74252
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74252

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-74252/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/15/2009 1156
Date Prepared: 10/14/2009 1030

Analysis Batch: 700-74284
Prep Batch: 700-74252
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-74252/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/15/2009 1158
Date Prepared: 10/14/2009 1030

Analysis Batch: 700-74284
Prep Batch: 700-74252
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	91	92	80 - 120	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Sediment - archive

Serial Number

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Mobile

TA Mobile
900 Lakeside Drive
Mobile, AL 36693
www.testamericainc.com
Phone: (251) 666-6633
Fax: (251) 666-6696

Alternate Laboratory Name/Location:
Phone:
Fax:

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Olin McIntosh OU2	PROJECT NO.: 6107090036	PROJECT LOCATION (STATE): AL
(LAB) PROJECT MANAGER: Charles Newton	P. O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: Keith Roberts	CLIENT PHONE: 4233364388	CLIENT FAX: 423.336.4166
CLIENT NAME: Keith Roberts, Olin	CLIENT EMAIL: kdroberts@	
CLIENT ADDRESS: 3855 North Ocoee St. Cleveland TN 37312		
COMPANY CONTRACTING THIS WORK (if applicable): MACTEC	SAMPLER'S SIGNATURE: [signature]	

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	Thg (7471)	TOC (9060)	Density (SM2710)	Grain Size (D422)	8081A (8270C)	HCB (8270C)	DDTC (8081A)					REMARKS
								ice	ice	ice	ice	ice	ice						
								NUMBER OF CONTAINERS SUBMITTED											
9/24/09	15:06	SDCR2-CL-092409	G	X				X		X	X	X							Archive Samples until notified by MACTEC
~~9/23/09~~	~~15:59~~	~~SDCR12-CG-092309~~	G	X				X		X	X								
9/24/09	10:19	SDCR13-CF-092609	G	X				X		X	X			X					
9/26/09	11:56	SDCR9-CF-092609	G	X				X		X	X			X					
9/26/09	13:55	SDCR10-CF-092609	G	X				X		X	X								
9/26/09	15:09	SDCR11-CG-092609	G	X				X		X	X								
9/27/09	10:12	SDCR4-CI-092709	G	X				X		X	X								
9/27/09	11:43	SDCR5-CI-092709	G	X				X		X	X								
9/27/09	14:02	SDCR6-CI-092709	G	X				X		X	X								
9/27/09	14:52	SDCR7-CI-092709	G	X				X		X	X								
9/28/09	16:25	SDCR3-CL-092709	G	X				X		X	X	X		X					
9/28/09	9:20	SDCR8-CL-092809	G	X				X		X	X	X		X					

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9/28/09	1600	[signature]	9/28/09				

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]	9/28/09	1600						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
[signature]	9/28/09	16:00			700-41726	2.5 3.8 2.3 3.4 3.6 3.9

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12/18/2009

Original - Return to Laboratory with Sample(s)

700-41726

LTA 3/4

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 700-41727-1

Job Description: Olin McIntosh OU-2 6107090036

For:
MACTEC Engineering and Consulting Inc
3200 Town Point Drive Northwest
Suite 100
Kennesaw, GA 30144

Attention: Mr. David Knaub

Approved for release.
Amanda Catrett
Project Manager I
10/29/2009 4:58 PM

Amanda Catrett
Project Manager I
amanda.catrett@testamericainc.com
10/29/2009

cc: Cynthia Draper
Heidi Fogell

Method 8081: Elevated detection limits due to sample matrix required dilution prior to analysis.

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
700-41727-1	**SDCR4-CA-092709**				
Mercury		23	2.0	mg/Kg	7471A
Percent Moisture		71	0.10	%	2540G
Percent Solids		29	0.10	%	2540G
700-41727-2	**SDCR4-CB-092709**				
Mercury		16	0.45	mg/Kg	7471A
Percent Moisture		72	0.10	%	2540G
Percent Solids		28	0.10	%	2540G
700-41727-3	**SDCR4-CC-092709**				
Mercury		230	5.2	mg/Kg	7471A
Percent Moisture		60	0.10	%	2540G
Percent Solids		40	0.10	%	2540G
700-41727-4	**SDCR4-CD-092709**				
Mercury		64	3.6	mg/Kg	7471A
Percent Moisture		54	0.10	%	2540G
Percent Solids		46	0.10	%	2540G
700-41727-5	**SDCR4-CE-092709**				
Mercury		17	0.37	mg/Kg	7471A
Percent Moisture		56	0.10	%	2540G
Percent Solids		44	0.10	%	2540G
700-41727-6	**SDCR4-CF-092709**				
Mercury		1.7	0.22	mg/Kg	7471A
Percent Moisture		55	0.10	%	2540G
Percent Solids		45	0.10	%	2540G
700-41727-7	**SDCR4-CG-092709**				
Mercury		0.69	0.21	mg/Kg	7471A
Percent Moisture		55	0.10	%	2540G
Percent Solids		45	0.10	%	2540G

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
700-41727-8	**SDCR4-CH-092709**				
Mercury		0.43	0.22	mg/Kg	7471A
Percent Moisture		54	0.10	%	2540G
Percent Solids		46	0.10	%	2540G
700-41727-9	**SDCR-CDUP03-092709**				
Mercury		19	0.48	mg/Kg	7471A
Percent Moisture		78	0.10	%	2540G
Percent Solids		22	0.10	%	2540G
700-41727-10	**SDCR5-CA-092709**				
Mercury		20	0.45	mg/Kg	7471A
Percent Moisture		76	0.10	%	2540G
Percent Solids		24	0.10	%	2540G
700-41727-11	**SDCR5-CB-092709**				
Mercury		18	0.56	mg/Kg	7471A
Percent Moisture		75	0.10	%	2540G
Percent Solids		25	0.10	%	2540G
700-41727-13	**SDCR5-CC-092709**				
Mercury		19	1.5	mg/Kg	7471A
Percent Moisture		73	0.10	%	2540G
Percent Solids		27	0.10	%	2540G
700-41727-14	**SDCRCDUP04-092709**				
Mercury		87	6.2	mg/Kg	7471A
Percent Moisture		73	0.10	%	2540G
Percent Solids		27	0.10	%	2540G
700-41727-15	**SDCR5-CD-092709**				
Mercury		300	9.4	mg/Kg	7471A
Percent Moisture		64	0.10	%	2540G
Percent Solids		36	0.10	%	2540G

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
700-41727-16	**SDCR5-CE-092709**				
Mercury		96	10	mg/Kg	7471A
Percent Moisture		53	0.10	%	2540G
Percent Solids		47	0.10	%	2540G
700-41727-17	**SDCR5-CF-092709**				
Mercury		120	4.0	mg/Kg	7471A
Percent Moisture		52	0.10	%	2540G
Percent Solids		48	0.10	%	2540G
700-41727-18	**SDCR5-CG-092709**				
Mercury		9.0	0.25	mg/Kg	7471A
Percent Moisture		57	0.10	%	2540G
Percent Solids		43	0.10	%	2540G
700-41727-19	**SDCR5-CH-092709**				
Mercury		1.0	0.20	mg/Kg	7471A
Percent Moisture		57	0.10	%	2540G
Percent Solids		43	0.10	%	2540G
700-41727-20	**SDCR6-CA-092709**				
Mercury		61	6.1	mg/Kg	7471A
Percent Moisture		70	0.10	%	2540G
Percent Solids		30	0.10	%	2540G
700-41727-21	**SDCR6-CB-092709**				
Mercury		52	1.4	mg/Kg	7471A
Percent Moisture		62	0.10	%	2540G
Percent Solids		38	0.10	%	2540G
700-41727-22	**SDCR6-CC-092709**				
Mercury		1.5	0.14	mg/Kg	7471A
Percent Moisture		54	0.10	%	2540G
Percent Solids		46	0.10	%	2540G

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
700-41727-23	**SDCR6-CD-092709**				
Mercury		1.7	0.13	mg/Kg	7471A
Percent Moisture		52	0.10	%	2540G
Percent Solids		48	0.10	%	2540G
700-41727-24	**SDCR6-CE-092709**				
Mercury		0.64	0.026	mg/Kg	7471A
Percent Moisture		53	0.10	%	2540G
Percent Solids		47	0.10	%	2540G
700-41727-25	**SDCR6-CF-092709**				
Mercury		0.49	0.023	mg/Kg	7471A
Percent Moisture		51	0.10	%	2540G
Percent Solids		49	0.10	%	2540G
700-41727-26	**SDCR6-CG-092709**				
Mercury		0.060	0.021	mg/Kg	7471A
Percent Moisture		49	0.10	%	2540G
Percent Solids		51	0.10	%	2540G
700-41727-27	**SDCR6-CH-092709**				
Mercury		0.073	0.026	mg/Kg	7471A
Percent Moisture		51	0.10	%	2540G
Percent Solids		49	0.10	%	2540G
700-41727-28	**SDCR7-CA-092709**				
Mercury		88	4.6	mg/Kg	7471A
Percent Moisture		65	0.10	%	2540G
Percent Solids		35	0.10	%	2540G
700-41727-29	**SDCR7-CB-092709**				
Mercury		2.6	0.20	mg/Kg	7471A
Percent Moisture		55	0.10	%	2540G
Percent Solids		45	0.10	%	2540G

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
700-41727-30	**SDCR7-CC-092709**					
Mercury		0.55		0.17	mg/Kg	7471A
Percent Moisture		52		0.10	%	2540G
Percent Solids		48		0.10	%	2540G
700-41727-31	**SDCR7-CD-092709**					
Mercury		0.16		0.020	mg/Kg	7471A
Percent Moisture		49		0.10	%	2540G
Percent Solids		51		0.10	%	2540G
700-41727-32	**SDCR7-CE-092709**					
Mercury		0.076		0.025	mg/Kg	7471A
Percent Moisture		48		0.10	%	2540G
Percent Solids		52		0.10	%	2540G
700-41727-33	**SDCR7-CF-092709**					
Mercury		0.018	J	0.020	mg/Kg	7471A
Percent Moisture		39		0.10	%	2540G
Percent Solids		61		0.10	%	2540G
700-41727-34	**SDCR7-CG-092709**					
Mercury		0.063		0.018	mg/Kg	7471A
Percent Moisture		34		0.10	%	2540G
Percent Solids		66		0.10	%	2540G
700-41727-35	**SDCR7-CH-092709**					
Mercury		0.059		0.017	mg/Kg	7471A
Percent Moisture		36		0.10	%	2540G
Percent Solids		64		0.10	%	2540G
700-41727-36	**SDCRCDUP05-092709**					
Mercury		1.2		0.026	mg/Kg	7471A
Percent Moisture		55		0.10	%	2540G
Percent Solids		45		0.10	%	2540G

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
700-41727-37	**SDCR3-CA-092709**					
4,4'-DDD		440		34	ug/Kg	8081A
2,4'-DDE		310		34	ug/Kg	8081A
2,4'-DDD		110		34	ug/Kg	8081A
Mercury		76		4.8	mg/Kg	7471A
Percent Moisture		62		0.10	%	2540G
Percent Solids		38		0.10	%	2540G
SPLP East						
Mercury		0.034		0.020	mg/L	7470A
700-41727-38	**SDCR3-CB-092709**					
4,4'-DDD		330		35	ug/Kg	8081A
2,4'-DDE		140		35	ug/Kg	8081A
Percent Moisture		62		0.10	%	2540G
Percent Solids		38		0.10	%	2540G
700-41727-39	**SDCR3-CC-092709**					
Mercury		5.2		0.20	mg/Kg	7471A
Percent Moisture		58		0.10	%	2540G
Percent Solids		42		0.10	%	2540G
700-41727-40	**SDCR3-CD-092709**					
4,4'-DDD		4.1	J	7.2	ug/Kg	8081A
Mercury		0.53		0.024	mg/Kg	7471A
Percent Moisture		54		0.10	%	2540G
Percent Solids		46		0.10	%	2540G
700-41727-41	**SDCR3-CE-092709**					
Mercury		0.50		0.024	mg/Kg	7471A
Percent Moisture		49		0.10	%	2540G
Percent Solids		51		0.10	%	2540G
700-41727-42	**SDCR3-CF-092709**					
4,4'-DDD		2.3	J	6.8	ug/Kg	8081A
Mercury		0.13		0.024	mg/Kg	7471A
Percent Moisture		51		0.10	%	2540G
Percent Solids		49		0.10	%	2540G

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
700-41727-43	**SDCR3-CG-092709**					
Mercury		0.19		0.024	mg/Kg	7471A
Percent Moisture		47		0.10	%	2540G
Percent Solids		53		0.10	%	2540G
700-41727-44	**SDCR3-CH-092709**					
Mercury		0.13		0.023	mg/Kg	7471A
Percent Moisture		48		0.10	%	2540G
Percent Solids		52		0.10	%	2540G
700-41727-45	**SDCR3-CI-092709**					
Mercury		0.070		0.035	mg/Kg	7471A
Percent Moisture		45		0.10	%	2540G
Percent Solids		55		0.10	%	2540G
700-41727-46	**SDCR3-CJ-092709**					
Mercury		0.074		0.017	mg/Kg	7471A
Percent Moisture		43		0.10	%	2540G
Percent Solids		57		0.10	%	2540G
700-41727-47	**SDCR3-CK-092709**					
Mercury		0.14		0.13	mg/Kg	7471A
Percent Moisture		36		0.10	%	2540G
Percent Solids		64		0.10	%	2540G
700-41727-48	**SDCRDUP02-092709**					
4,4'-DDT		5.3	J	8.6	ug/Kg	8081A
4,4'-DDE		110		8.6	ug/Kg	8081A
4,4'-DDD		270	E	8.6	ug/Kg	8081A
2,4'-DDD		46		8.6	ug/Kg	8081A
Hexachlorobenzene		60		8.6	ug/Kg	8081A
Percent Moisture		62		0.10	%	2540G
Percent Solids		38		0.10	%	2540G
700-41727-49	**SDCR8-CA-092809**					
4,4'-DDD		94	J	110	ug/Kg	8081A
Percent Moisture		71		0.10	%	2540G
Percent Solids		29		0.10	%	2540G

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
700-41727-50	**SDCR8-CB-092809**					
4,4'-DDD		94		50	ug/Kg	8081A
2,4'-DDT		13	J	50	ug/Kg	8081A
2,4'-DDE		150		50	ug/Kg	8081A
2,4'-DDD		49	J	50	ug/Kg	8081A
Hexachlorobenzene		110		50	ug/Kg	8081A
Percent Moisture		73		0.10	%	2540G
Percent Solids		27		0.10	%	2540G
700-41727-51	**SDCR8-CC-092809**					
Mercury		39		8.1	mg/Kg	7471A
Percent Moisture		71		0.10	%	2540G
Percent Solids		29		0.10	%	2540G
700-41727-52	**SDCR8-CD-092809**					
2,4'-DDE		230		51	ug/Kg	8081A
Mercury		24		2.1	mg/Kg	7471A
Percent Moisture		74		0.10	%	2540G
Percent Solids		26		0.10	%	2540G
700-41727-53	**SDCR8-CE-092809**					
4,4'-DDE		580		48	ug/Kg	8081A
4,4'-DDD		420		48	ug/Kg	8081A
2,4'-DDE		930		48	ug/Kg	8081A
2,4'-DDD		69		48	ug/Kg	8081A
Mercury		15		1.8	mg/Kg	7471A
Percent Moisture		73		0.10	%	2540G
Percent Solids		27		0.10	%	2540G
700-41727-54	**SDCR8-CF-092809**					
2,4'-DDE		1800	E	48	ug/Kg	8081A
Hexachlorobenzene		93		48	ug/Kg	8081A
Mercury		94		7.4	mg/Kg	7471A
Percent Moisture		72		0.10	%	2540G
Percent Solids		28		0.10	%	2540G

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
700-41727-55	**SDCR8-CG-092809**					
4,4'-DDE		2000		390	ug/Kg	8081A
2,4'-DDE		2300		390	ug/Kg	8081A
Hexachlorobenzene		620		390	ug/Kg	8081A
Mercury		440		10	mg/Kg	7471A
Percent Moisture		58		0.10	%	2540G
Percent Solids		42		0.10	%	2540G
700-41727-56	**SDCR8-CH-092809**					
4,4'-DDE		790		240	ug/Kg	8081A
2,4'-DDE		1100		240	ug/Kg	8081A
2,4'-DDD		580		240	ug/Kg	8081A
Hexachlorobenzene		510		240	ug/Kg	8081A
Mercury		120		3.8	mg/Kg	7471A
Percent Moisture		45		0.10	%	2540G
Percent Solids		55		0.10	%	2540G
700-41727-57	**SDCR8-CI-092809**					
4,4'-DDE		1000		250	ug/Kg	8081A
2,4'-DDT		120	J	250	ug/Kg	8081A
2,4'-DDE		1600		250	ug/Kg	8081A
2,4'-DDD		530		250	ug/Kg	8081A
Hexachlorobenzene		290		250	ug/Kg	8081A
Mercury		120		4.6	mg/Kg	7471A
Percent Moisture		46		0.10	%	2540G
Percent Solids		54		0.10	%	2540G
700-41727-58	**SDCR8-CJ-092809**					
4,4'-DDE		15000		6400	ug/Kg	8081A
4,4'-DDD		2200	J	6400	ug/Kg	8081A
2,4'-DDE		17000		6400	ug/Kg	8081A
Mercury		230		8.5	mg/Kg	7471A
Percent Moisture		49		0.10	%	2540G
Percent Solids		51		0.10	%	2540G

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
700-41727-59	**SDCR8-CK-092809**					
4,4'-DDE		1100		260	ug/Kg	8081A
4,4'-DDD		560		260	ug/Kg	8081A
2,4'-DDE		1100		260	ug/Kg	8081A
2,4'-DDD		480		260	ug/Kg	8081A
Mercury		170		3.4	mg/Kg	7471A
Percent Moisture		49		0.10	%	2540G
Percent Solids		51		0.10	%	2540G
700-41727-60	**SDCRCDUP06-092809**					
4,4'-DDD		130	J	140	ug/Kg	8081A
2,4'-DDE		190000	E	140	ug/Kg	8081A
2,4'-DDD		63000	E	140	ug/Kg	8081A
Percent Moisture		76		0.10	%	2540G
Percent Solids		24		0.10	%	2540G

METHOD SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Organochlorine Pesticides (GC)	TAL MOB	SW846 8081A	
Ultrasonic Extraction	TAL MOB		SW846 3550B
SPLP Mercury	TAL MOB	SW846 7470A	
SPLP Extraction	TAL MOB		SW846 1312
Preparation, Mercury	TAL MOB		SW846 7470A
Mercury (CVAA)	TAL MOB	SW846 7471A	
Preparation, Mercury	TAL MOB		SW846 7471A
2540G	TAL MOB	SM18 2540G	
General Sub Contract Method	TAL BUR	Subcontract	

Lab References:

TAL BUR = TestAmerica Burlington

TAL MOB = TestAmerica Mobile

Method References:

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Method	Analyst	Analyst ID
SW846 8081A	Bendolph, Jackie	JB
SW846 7470A	Mathews, Robert	RDM
SW846 7471A	Mathews, Robert	RDM
SM18 2540G	Fowler, Gina M	GMF
SM18 2540G	Norvang, Vanyda A	VAN

SAMPLE SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
700-41727-1	SDCR4-CA-092709	Solid	09/27/2009 0914	09/28/2009 1600
700-41727-2	SDCR4-CB-092709	Solid	09/27/2009 0920	09/28/2009 1600
700-41727-3	SDCR4-CC-092709	Solid	09/27/2009 0928	09/28/2009 1600
700-41727-4	SDCR4-CD-092709	Solid	09/27/2009 0933	09/28/2009 1600
700-41727-5	SDCR4-CE-092709	Solid	09/27/2009 0938	09/28/2009 1600
700-41727-6	SDCR4-CF-092709	Solid	09/27/2009 0946	09/28/2009 1600
700-41727-6MS	SDCR4-CF-092709	Solid	09/27/2009 1012	09/28/2009 1600
700-41727-6MSD	SDCR4-CF-092709	Solid	09/27/2009 1012	09/28/2009 1600
700-41727-7	SDCR4-CG-092709	Solid	09/27/2009 0955	09/28/2009 1600
700-41727-8	SDCR4-CH-092709	Solid	09/27/2009 1003	09/28/2009 1600
700-41727-9	SDCR-CDUP03-092709	Solid	09/27/2009 1200	09/28/2009 1600
700-41727-10	SDCR5-CA-092709	Solid	09/27/2009 1057	09/28/2009 1600
700-41727-11	SDCR5-CB-092709	Solid	09/27/2009 1102	09/28/2009 1600
700-41727-13	SDCR5-CC-092709	Solid	09/27/2009 1106	09/28/2009 1600
700-41727-14	SDCRCDUP04-092709	Solid	09/27/2009 1200	09/28/2009 1600
700-41727-15	SDCR5-CD-092709	Solid	09/27/2009 1113	09/28/2009 1600
700-41727-16	SDCR5-CE-092709	Solid	09/27/2009 1119	09/28/2009 1600
700-41727-17	SDCR5-CF-092709	Solid	09/27/2009 1124	09/28/2009 1600
700-41727-18	SDCR5-CG-092709	Solid	09/27/2009 1131	09/28/2009 1600
700-41727-19	SDCR5-CH-092709	Solid	09/27/2009 1139	09/28/2009 1600
700-41727-20	SDCR6-CA-092709	Solid	09/27/2009 1316	09/28/2009 1600
700-41727-21	SDCR6-CB-092709	Solid	09/27/2009 1324	09/28/2009 1600
700-41727-22	SDCR6-CC-092709	Solid	09/27/2009 1327	09/28/2009 1600
700-41727-23	SDCR6-CD-092709	Solid	09/27/2009 1334	09/28/2009 1600
700-41727-24	SDCR6-CE-092709	Solid	09/27/2009 1341	09/28/2009 1600
700-41727-25	SDCR6-CF-092709	Solid	09/27/2009 1348	09/28/2009 1600
700-41727-26	SDCR6-CG-092709	Solid	09/27/2009 1353	09/28/2009 1600
700-41727-27	SDCR6-CH-092709	Solid	09/27/2009 1358	09/28/2009 1600
700-41727-28	SDCR7-CA-092709	Solid	09/27/2009 1450	09/28/2009 1600
700-41727-29	SDCR7-CB-092709	Solid	09/27/2009 1455	09/28/2009 1600
700-41727-30	SDCR7-CC-092709	Solid	09/27/2009 1500	09/28/2009 1600
700-41727-31	SDCR7-CD-092709	Solid	09/27/2009 1504	09/28/2009 1600
700-41727-32	SDCR7-CE-092709	Solid	09/27/2009 1508	09/28/2009 1600
700-41727-33	SDCR7-CF-092709	Solid	09/27/2009 1510	09/28/2009 1600
700-41727-34	SDCR7-CG-092709	Solid	09/27/2009 1504	09/28/2009 1600
700-41727-35	SDCR7-CH-092709	Solid	09/27/2009 1458	09/28/2009 1600
700-41727-36	SDCRCDUP05-092709	Solid	09/27/2009 1200	09/28/2009 1600
700-41727-37	SDCR3-CA-092709	Solid	09/27/2009 1725	09/28/2009 1600
700-41727-38	SDCR3-CB-092709	Solid	09/27/2009 1623	09/28/2009 1600
700-41727-39	SDCR3-CC-092709	Solid	09/27/2009 1619	09/28/2009 1600
700-41727-40	SDCR3-CD-092709	Solid	09/27/2009 1612	09/28/2009 1600
700-41727-41	SDCR3-CE-092709	Solid	09/27/2009 1634	09/28/2009 1600
700-41727-42	SDCR3-CF-092709	Solid	09/27/2009 1641	09/28/2009 1600
700-41727-43	SDCR3-CG-092709	Solid	09/27/2009 1647	09/28/2009 1600
700-41727-44	SDCR3-CH-092709	Solid	09/27/2009 1653	09/28/2009 1600
700-41727-45	SDCR3-CI-092709	Solid	09/27/2009 1659	09/28/2009 1600

SAMPLE SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
700-41727-46	SDCR3-CJ-092709	Solid	09/27/2009 1645	09/28/2009 1600
700-41727-46MS	SDCR3-CJ-092709	Solid	09/27/2009 1645	09/28/2009 1600
700-41727-46MSD	SDCR3-CJ-092709	Solid	09/27/2009 1645	09/28/2009 1600
700-41727-47	SDCR3-CK-092709	Solid	09/27/2009 1630	09/28/2009 1600
700-41727-48	SDCRDUP02-092709	Solid	09/27/2009 1200	09/28/2009 1600
700-41727-49	SDCR8-CA-092809	Solid	09/28/2009 0920	09/28/2009 1600
700-41727-50	SDCR8-CB-092809	Solid	09/28/2009 0928	09/28/2009 1600
700-41727-51	SDCR8-CC-092809	Solid	09/28/2009 0926	09/28/2009 1600
700-41727-52	SDCR8-CD-092809	Solid	09/28/2009 0936	09/28/2009 1600
700-41727-53	SDCR8-CE-092809	Solid	09/28/2009 0943	09/28/2009 1600
700-41727-54	SDCR8-CF-092809	Solid	09/28/2009 0951	09/28/2009 1600
700-41727-55	SDCR8-CG-092809	Solid	09/28/2009 0958	09/28/2009 1600
700-41727-56	SDCR8-CH-092809	Solid	09/28/2009 0955	09/28/2009 1600
700-41727-56MS	SDCR8-CH-092809	Solid	09/28/2009 0955	09/28/2009 1600
700-41727-56MSD	SDCR8-CH-092809	Solid	09/28/2009 0955	09/28/2009 1600
700-41727-57	SDCR8-CI-092809	Solid	09/28/2009 0945	09/28/2009 1600
700-41727-58	SDCR8-CJ-092809	Solid	09/28/2009 0940	09/28/2009 1600
700-41727-59	SDCR8-CK-092809	Solid	09/28/2009 0930	09/28/2009 1600
700-41727-60	SDCRCDUP06-092809	Solid	09/28/2009 1200	09/28/2009 1600

SAMPLE RESULTS

TestAmerica
South Burlington, VT

Sample Data Summary Package

70041727

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

October 27, 2009

Ms. Amanda Catrett
TestAmerica, Inc.
900 Lakeside Drive
Mobile, AL 36693

Re: Laboratory Project No. 29023
Case: MACTEC; SDG: 70041727

Dear Ms. Catrett:

Enclosed are the analytical results for the samples that were received by TestAmerica Burlington on September 30th, 2009. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 09/30/09 ETR No: 133873		
808214	SDCR4-CA-092709	09/27/09	SOLID
808215	SDCR4-CB-092709	09/27/09	SOLID
808216	SDCR4-CC-092709	09/27/09	SOLID
808217	SDCR4-CD-092709	09/27/09	SOLID
808218	SDCR4-CE-092709	09/27/09	SOLID
808219	SDCR4-CF-092709	09/27/09	SOLID
808220	SDCR4-CG-092709	09/27/09	SOLID
808221	SDCR4-CH-092709	09/27/09	SOLID
808222	SDCR5-CA-092709	09/27/09	SOLID
808223	SDCR5-CB-092709	09/27/09	SOLID
808224	SDCR5-CC-092709	09/27/09	SOLID
808225	SDCR5-CD-092709	09/27/09	SOLID
808226	SDCR5-CE-092709	09/27/09	SOLID
808227	SDCR5-CF-092709	09/27/09	SOLID
808228	SDCR5-CG-092709	09/27/09	SOLID
808229	SDCR5-CH-092709	09/27/09	SOLID
808230	SDCR6-CA-092709	09/27/09	SOLID
808231	SDCR6-CB-092709	09/27/09	SOLID
808232	SDCR6-CC-092709	09/27/09	SOLID
808233	SDCR6-CD-092709	09/27/09	SOLID
808234	SDCR6-CE-092709	09/27/09	SOLID
808235	SDCR6-CF-092709	09/27/09	SOLID
808236	SDCR6-CG-092709	09/27/09	SOLID
808237	SDCR6-CH-092709	09/27/09	SOLID
808238	SDCR7-CA-092709	09/27/09	SOLID

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Received: 09/30/09 ETR No: 133873

Lab ID	Client Sample ID	Sample Date	Sample Matrix
808239	SDCR7-CB-092709	09/27/09	SOLID
808240	SDCR7-CC-092709	09/27/09	SOLID
808241	SDCR7-CD-092709	09/27/09	SOLID
808242	SDCR7-CE-092709	09/27/09	SOLID
808243	SDCR7-CF-092709	09/27/09	SOLID
808244	SDCR7-CG-092709	09/27/09	SOLID
808245	SDCR7-CH-092709	09/27/09	SOLID
808246	SDCR3-CA-092709	09/27/09	SOLID
808247	SDCR3-CB-092709	09/27/09	SOLID
808248	SDCR3-CD-092709	09/27/09	SOLID
808249	SDCR3-CE-092709	09/27/09	SOLID
808250	SDCR3-CF-092709	09/27/09	SOLID
808251	SDCR3-CG-092709	09/27/09	SOLID
808252	SDCR3-CH-092709	09/27/09	SOLID
808253	SDCR3-CI-092709	09/27/09	SOLID
808254	SDCR3-CJ-092709	09/27/09	SOLID
808255	SDCR3-CK-092709	09/27/09	SOLID
808256	SDCR8-CA-092809	09/28/09	SOLID
808257	SDCR8-CB-092809	09/28/09	SOLID
808258	SDCR8-CD-092809	09/28/09	SOLID
808259	SDCR8-CE-092809	09/28/09	SOLID
808260	SDCR8-CF-092809	09/28/09	SOLID
808261	SDCR8-CG-092809	09/28/09	SOLID
808262	SDCR8-CH-092809	09/28/09	SOLID
808263	SDCR8-CI-092809	09/28/09	SOLID
808264	SDCR8-CJ-092809	09/28/09	SOLID
808265	SDCR8-CK-092809	09/28/09	SOLID

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

The samples were analyzed for particle size by ASTM D422 and for density by ASTM D2937. The density results do not represent the in-place density of the soil. The samples were received in a disturbed state, and subsequent to receipt, the laboratory molded the samples into Shelby tubes, and performed the tests accordingly.

Any reference within this report to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.) The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 660-1990.

Sincerely,

Rayburn J. Lavigne

Rayburn Lavigne
Project Manager

RJL/hsf
Enclosure

TestAmerica Mobile
900 Lakeside Drive
Mobile, AL 36693
Phone (251) 666-6633 Fax (251) 666-6696

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Catrett, Amanda	Carrier Tracking No(s):	COC No: 700-6285.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: amanda.catrett@testamericainc.com		Page: Page 1 of 5
Company: TestAmerica Laboratories, Inc.				Job #: 700-41727-1
Address: 30 Community Drive, Suite 11.	Due Date Requested: 10/8/2009			
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel)	PO #:			
Email:	WO #:			
Project Name: Olin McIntosh OU-2 6107090036	Project #: 70003229			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT/ Grain Size	SUBCONTRACT/ Bulk Density	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SDCR4-CA-092709 (700-41727-1)	9/27/09	9:14		Solid			X	X	1	
SDCR4-CB-092709 (700-41727-2)	9/27/09	9:20		Solid			X	X	1	
SDCR4-CC-092709 (700-41727-3)	9/27/09	9:28		Solid			X	X	1	
SDCR4-CD-092709 (700-41727-4)	9/27/09	9:33		Solid			X	X	1	
SDCR4-CE-092709 (700-41727-5)	9/27/09	9:38		Solid			X	X	1	
SDCR4-CF-092709 (700-41727-6)	9/27/09	9:46		Solid			X	X	1	
SDCR4-CG-092709 (700-41727-7)	9/27/09	9:55		Solid			X	X	1	
SDCR4-CH-092709 (700-41727-8)	9/27/09	10:03		Solid			X	X	1	
SDCR5-CA-092709 (700-41727-10)	9/27/09	10:57		Solid			X	X	1	
SDCR5-CB-092709 (700-41727-11)	9/27/09	11:02		Solid			X	X	1	
SDCR5-CC-092709 (700-41727-13)	9/27/09	11:06		Solid			X	X	1	

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by: Zithan	Date/Time: 9/29/09 1600	Company:	Received by:	Date/Time: 9/30/09 1025	Company: TA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Mobile
900 Lakeside Drive
Mobile, AL 36693
Phone (251) 666-6633 Fax (251) 666-6696

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Catrett, Amanda	Carrier Tracking No(s):	COC No: 700-6285.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: amanda.catrett@testamericainc.com		Page: Page 2 of 5
Company: TestAmerica Laboratories, Inc.				Job #: 700-41727-1
Address: 30 Community Drive, Suite 11,	Due Date Requested: 10/6/2009			
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel)	PO #:			
Email:	WO #:			
Project Name: Olin McIntosh OU-2 6107090036	Project #: 70003229			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT/ Grain Size	SUBCONTRACT/ Bulk Density	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SDCR5-CD-0927090 (700-41727-15)	9/27/09	11:13		Solid			X	X	1	
SDCR5-CE-0927090 (700-41727-16)	9/27/09	11:19		Solid			X	X	1	
SDCR5-CF-0927090 (700-41727-17)	9/27/09	11:24		Solid			X	X	1	
SDCR5-CG-0927090 (700-41727-18)	9/27/09	11:31		Solid			X	X	1	
SDCR5-CH-0927090 (700-41727-19)	9/27/09	11:39		Solid			X	X	1	
SDCR6-CA-0927090 (700-41727-20)	9/27/09	13:16		Solid			X	X	1	
SDCR6-CB-0927090 (700-41727-21)	9/27/09	13:24		Solid			X	X	1	
SDCR6-CC-0927090 (700-41727-22)	9/27/09	13:27		Solid			X	X	1	
SDCR6-CD-0927090 (700-41727-23)	9/27/09	13:34		Solid			X	X	1	
SDCR6-CE-0927090 (700-41727-24)	9/27/09	13:41		Solid			X	X	1	
SDCR6-CF-0927090 (700-41727-25)	9/27/09	13:48		Solid			X	X	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time: 9/29/09 1600	Company:	Received by:	Date/Time: 9/30/09 1025	Company: TA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

10/29/2009

TestAmerica Mobile
900 Lakeside Drive
Mobile, AL 36693
Phone (251) 666-6633 Fax (251) 666-6696

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Catrett, Amanda	Carrier Tracking No(s):	COC No: 700-6285.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: amanda.catrett@testamericainc.com		Page: Page 3 of 5
Company: TestAmerica Laboratories, Inc.				Job #: 700-41727-1
Address: 30 Community Drive, Suite 11,	Due Date Requested: 10/8/2009			
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel)	PO #:			
Email:	WO #:			
Project Name: Olin McIntosh OU-2 6107090036	Project #: 70003229			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT/ Grain Size	SUBCONTRACT/ Bulk Density	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SDCR6-CG-0927090 (700-41727-26)	9/27/09	13:53		Solid			X	X	1	
SDCR6-CH-0927090 (700-41727-27)	9/27/09	13:58		Solid			X	X	1	
SDCR7-CA-0927090 (700-41727-28)	9/27/09	14:50		Solid			X	X	1	
SDCR7-CB-0927090 (700-41727-29)	9/27/09	14:55		Solid			X	X	1	
SDCR7-CC-0927090 (700-41727-30)	9/27/09	15:00		Solid			X	X	1	
SDCR7-CD-0927090 (700-41727-31)	9/27/09	15:04		Solid			X	X	1	
SDCR7-CE-0927090 (700-41727-32)	9/27/09	15:08		Solid			X	X	1	
SDCR7-CF-0927090 (700-41727-33)	9/27/09	15:10		Solid			X	X	1	
SDCR7-CG-0927090 (700-41727-34)	9/27/09	15:04		Solid			X	X	1	
SDCR7-CH-092709 (700-41727-35)	9/27/09	14:58		Solid			X	X	1	
SDCR3-CA-092709 (700-41727-37)	9/27/09	17:25		Solid			X	X	1	

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by	Date/Time:	Company
Relinquished by:	Date/Time: 9/29/09 1600	Company	Received by:	Date/Time: 9/30/09 1025	Company TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Y Yes A No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

TestAmerica Mobile
900 Lakeside Drive
Mobile, AL 36693
Phone (251) 666-6633 Fax (251) 666-6696

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Catrett, Amanda	Carrier Tracking No(s):	COC No: 700-6285.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: amanda.catrett@testamericainc.com		Page: Page 4 of 5
Company: TestAmerica Laboratories, Inc.				Job #: 700-41727-1
Address: 30 Community Drive, Suite 11,	Due Date Requested: 10/8/2009			
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel)	PO #:			
Email:	WO #:			
Project Name: Olin McIntosh OU-2 6107090036	Project #: 70003229			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT/ Grain Size	SUBCONTRACT/ Bulk Density	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SDCR3-CB-092709 (700-41727-38)	9/27/09	16:23		Solid			X	X	1	
SDCR3-CD-092709 (700-41727-40)	9/27/09	16:12		Solid			X	X	1	
SDCR3-CE-092709 (700-41727-41)	9/27/09	16:34		Solid			X	X	1	
SDCR3-CF-092709 (700-41727-42)	9/27/09	16:41		Solid			X	X	1	
SDCR3-CG-092709 (700-41727-43)	9/27/09	16:47		Solid			X	X	1	
SDCR3-CH-092709 (700-41727-44)	9/27/09	16:53		Solid			X	X	1	
SDCR3-CI-092709 (700-41727-45)	9/27/09	16:59		Solid			X	X	1	
SDCR3-CJ-092709 (700-41727-46)	9/27/09	16:45		Solid			X	X	1	
SDCR3-CK-092709 (700-41727-47)	9/27/09	16:30		Solid			X	X	1	
SDCR8-CA-092809 (700-41727-49)	9/28/09	9:20		Solid			X	X	1	
SDCR8-CB-092809 (700-41727-50)	9/28/09	9:28		Solid			X	X	1	

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: [signature]	Date/Time: 9/29/09 1600	Company	Received by: [signature]	Date/Time: 9/30/09 1025	Company: TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Mobile
900 Lakeside Drive
Mobile, AL 36693
Phone (251) 666-6633 Fax (251) 666-6696

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Catrett, Amanda	Carrier Tracking No(s):	COC No: 700-6285.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: amanda.catrett@testamericainc.com		Page: Page 5 of 5
Company: TestAmerica Laboratories, Inc				Job #: 700-41727-1
Address: 30 Community Drive, Suite 11,	Due Date Requested: 10/8/2009			
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel)	PO #:			
Email:	WO #:			
Project Name: Olin McIntosh OU-2 6107090036	Project #: 70003229			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT/ Grain Size	SUBCONTRACT/ Bulk Density	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SDCR8-CD-092809 (700-41727-52)	9/28/09	9:36		Solid			X	X	1	
SDCR8-CE-092809 (700-41727-53)	9/28/09	9:43		Solid			X	X	1	
SDCR8-CF-092809 (700-41727-54)	9/28/09	9:51		Solid			X	X	1	
SDCR8-CG-092809 (700-41727-55)	9/28/09	9:58		Solid			X	X	1	
SDCR8-CH-092809 (700-41727-56)	9/28/09	9:55		Solid			X	X	1	
SDCR8-CI-092809 (700-41727-57)	9/28/09	9:45		Solid			X	X	1	
SDCR8-CJ-092809 (700-41727-58)	9/28/09	9:40		Solid			X	X	1	
SDCR8-CK-092809 (700-41727-59)	9/28/09	9:30		Solid			X	X	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by: J. Hart	Date/Time: 9/29/09 1600	Company:	Received by:	Date/Time: 9/30/09 1025	Company: TA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Data Summary – Geotechnical

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR4-CA-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808214

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.36	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR4-CB-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808215

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.33	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR4-CC-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808216

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.55	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR4-CD-092709

Lab Name: TestAmerica Burlington | **Contract:** 700-41727-1 | **SDG No.:** 70041727

Lab Code: TALVT | **Case No.:** MACTEC | **Lab Sample ID:** 808217

Matrix: SOLID | **Client:** STLALM | **Date Received:** 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.65	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR4-CE-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808218

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.59	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR4-CF-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808219

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.59	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR4-CG-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808220

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.62	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR4-CH-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808221

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.61	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR5-CA-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808222

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.26	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR5-CB-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808223

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.27	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
SDCR5-CC-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808224

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.31	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR5-CD-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808225

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.46	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR5-CE-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808226

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.68	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
SDCR5-CF-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808227

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.70	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR5-CG-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808228

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.57	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR5-CH-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808229

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.60	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR6-CA-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808230

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.35	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR6-CB-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808231

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.52	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR6-CC-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808232

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.62	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR6-CD-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808233

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.60	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR6-CE-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808234

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/20/09		g/cm3	1	0.0	0.65	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR6-CF-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808235

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.67	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR6-CG-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808236

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.73	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR6-CH-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808237

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.67	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR7-CA-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808238

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.45	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR7-CB-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808239

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.63	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR7-CC-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808240

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.69	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR7-CD-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808241

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.69	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR7-CE-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808242

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.74	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR7-CF-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808243

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.89	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR7-CG-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808244

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.81	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR7-CH-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808245

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.92	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR3-CA-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808246

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.53	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR3-CB-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808247

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.49	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR3-CD-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808248

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.62	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR3-CE-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808249

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.68	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR3-CF-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808250

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.68	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR3-CG-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808251

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.69	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR3-CH-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808252

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.71	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR3-CI-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808253

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.74	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR3-CJ-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808254

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	0.87	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR3-CK-092709

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808255

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/21/09		g/cm3	1	0.0	1.15	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR8-CA-092809

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808256

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/22/09		g/cm3	1	0.0	0.31	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR8-CB-092809

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808257

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/22/09		g/cm3	1	0.0	0.29	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR8-CD-092809

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808258

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/22/09		g/cm3	1	0.0	0.27	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR8-CE-092809

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808259

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/22/09		g/cm3	1	0.0	0.30	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR8-CF-092809

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808260

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/22/09		g/cm3	1	0.0	0.34	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR8-CG-092809

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808261

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/22/09		g/cm3	1	0.0	0.55	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR8-CH-092809

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808262

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/22/09		g/cm3	1	0.0	0.81	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR8-CI-092809

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808263

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/22/09		g/cm3	1	0.0	0.79	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR8-CJ-092809

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808264

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/22/09		g/cm3	1	0.0	0.74	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
SDCR8-CK-092809

Lab Name: TestAmerica Burlington | Contract: 700-41727-1 | SDG No.: 70041727

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808265

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/22/09		g/cm3	1	0.0	0.74	

ASTM Method D2937: Standard Test Method for Density of Soil in Place by the Drive-Cylinder Method Calculations

Client Code: STLALM
ETR: 133873
SDG: 70041727

Start Date: 10/20/2009
Start Time: 1825
End Date: 10/21/2009
Analyst: MAP

Laboratory Number	Weight Of					Measurement of							
	Container (g)	Container + Sample (g)	Pan (g)	Pan + Wet Sample (g)	Pan + Dry Sample (g)	Sample Recovery (cm)	Container Diameter (cm)	Area (cm^2)	Wet Sample (g)	Dry Mass Basis (%)	Sample Volume (cm^3)	Dry Mass (g)	In-Place Density (g/cm^3)
808214	124.43	255.70	3.77	35.79	12.95	4.46	5.50	23.76	131.27	248.8%	105.96	37.63	0.36
808215	126.34	275.98	3.77	56.63	18.39	5.22	5.50	23.76	149.64	261.6%	124.02	41.39	0.33
808216	125.07	278.28	3.78	51.89	23.53	4.80	5.50	23.76	153.21	143.6%	114.04	62.90	0.55
808217	124.99	287.86	3.86	69.05	34.08	4.88	5.50	23.76	162.87	115.7%	115.94	75.50	0.65
808218	125.16	283.49	3.85	71.37	32.48	4.76	5.50	23.76	158.33	135.8%	113.09	67.14	0.59
808219	124.54	293.82	3.82	88.66	41.64	5.39	5.50	23.76	169.28	124.3%	128.06	75.46	0.59
808220	125.46	277.41	3.78	69.57	33.37	4.67	5.50	23.76	151.95	122.3%	110.95	68.34	0.62
808221	124.19	246.11	3.84	46.62	23.41	3.87	5.50	23.76	121.92	118.6%	91.94	55.77	0.61
808222	125.52	269.14	3.81	51.89	14.60	5.30	5.50	23.76	143.62	345.6%	125.92	32.23	0.26
808223	125.48	249.54	3.84	40.65	12.61	4.67	5.50	23.76	124.06	319.7%	110.95	29.56	0.27
808224	125.63	261.64	3.81	52.38	16.50	4.76	5.50	23.76	136.01	282.7%	113.09	35.54	0.31
808225	125.18	287.31	3.85	58.43	23.38	5.30	5.50	23.76	162.13	179.5%	125.92	58.01	0.46
808226	125.21	290.96	3.83	59.36	29.77	4.80	5.50	23.76	165.75	114.1%	114.04	77.43	0.68
808227	125.51	299.06	3.80	72.15	36.50	4.97	5.50	23.76	173.55	109.0%	118.08	83.03	0.70
808228	125.83	283.74	3.85	78.99	35.38	4.88	5.50	23.76	157.91	138.3%	115.94	66.26	0.57
808229	125.49	276.76	3.80	68.79	32.25	4.63	5.50	23.76	151.27	128.4%	110.00	66.22	0.60
808230	127.49	273.52	3.80	46.92	15.85	4.88	5.50	23.76	146.03	257.8%	115.94	40.81	0.35
808231	125.05	288.92	3.77	60.00	24.97	5.01	5.50	23.76	163.87	165.2%	119.03	61.78	0.52
808232	126.42	277.80	3.79	61.28	29.49	4.63	5.50	23.76	151.38	123.7%	110.00	67.67	0.62
808233	125.09	260.47	3.83	52.00	26.23	4.38	5.50	23.76	135.38	115.0%	104.06	62.95	0.60
808234	126.18	275.62	3.83	64.71	32.11	4.50	5.50	23.76	149.44	115.3%	106.91	69.42	0.65

ASTM Method D2937: Standard Test Method for Density of Soil in Place by the Drive-Cylinder Method Calculations

Client Code: STLALM
ETR: 133873
SDG: 70041727

Start Date: 10/21/2009
Start Time: 00:12
End Date: 10/22/2009
Analyst: MAP

Laboratory Number	Weight Of					Measurement of							
	Container (g)	Container + Sample (g)	Pan (g)	Pan + Wet Sample (g)	Pan + Dry Sample (g)	Sample Recovery (cm)	Container Diameter (cm)	Area (cm^2)	Wet Sample (g)	Dry Mass Basis (%)	Sample Volume (cm^3)	Dry Mass (g)	In-Place Density (g/cm^3)
808235	125.70	271.12	3.81	62.87	32.08	4.38	5.50	23.76	145.42	108.9%	104.06	69.61	0.67
808236	124.52	283.39	3.78	68.10	35.93	4.55	5.50	23.76	158.87	100.1%	108.10	79.41	0.73
808237	125.68	262.34	3.78	60.44	31.76	4.21	5.50	23.76	136.66	102.5%	100.02	67.49	0.67
808238	126.71	284.51	3.80	54.41	21.61	5.18	5.50	23.76	157.80	184.2%	123.07	55.53	0.45
808239	126.45	284.61	3.79	55.69	26.39	4.63	5.50	23.76	158.16	129.6%	110.00	68.87	0.63
808240	125.82	291.29	3.79	66.75	33.12	4.71	5.50	23.76	165.47	114.7%	111.90	77.08	0.69
808241	126.05	277.01	3.82	48.51	25.82	4.55	5.50	23.76	150.96	103.1%	108.10	74.31	0.69
808242	126.16	283.12	3.84	67.14	36.11	4.55	5.50	23.76	156.96	96.2%	108.10	80.02	0.74
808243	125.12	285.19	3.82	79.43	48.88	4.50	5.50	23.76	160.07	67.8%	106.91	95.39	0.89
808244	125.24	285.10	3.78	62.16	35.93	4.59	5.50	23.76	159.86	81.6%	109.05	88.04	0.81
808245	125.72	245.26	3.80	40.87	27.42	3.49	5.50	23.76	119.54	56.9%	82.92	76.17	0.92
808246	124.41	292.49	3.80	69.17	29.54	5.30	5.50	23.76	168.08	154.0%	125.92	66.18	0.53
808247	125.82	276.78	3.80	51.57	21.59	4.80	5.50	23.76	150.96	168.5%	114.04	56.22	0.49
808248	124.97	297.63	3.74	74.95	35.50	5.22	5.50	23.76	172.66	124.2%	124.02	77.01	0.62
808249	126.50	286.26	3.73	73.86	37.42	4.76	5.50	23.76	159.76	108.2%	113.09	76.75	0.68
808250	125.64	286.98	3.75	69.54	35.17	4.76	5.50	23.76	161.34	109.4%	113.09	77.05	0.68
808251	125.79	295.96	3.83	79.74	40.15	4.97	5.50	23.76	170.17	109.0%	118.08	81.42	0.69
808252	125.26	273.40	3.85	63.57	34.26	4.50	5.50	23.76	148.14	96.4%	106.91	75.43	0.71
808253	124.80	250.78	3.82	44.04	25.42	3.83	5.50	23.76	125.98	86.2%	90.99	67.66	0.74
808254	125.85	294.11	3.80	84.99	50.19	4.63	5.50	23.76	168.26	75.0%	110.00	96.14	0.87
808255	124.88	316.79	3.80	96.67	64.92	4.63	5.50	23.76	191.91	51.9%	110.00	126.30	1.15

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ASTM Method D2937: Standard Test Method for Density of Soil in Place by the Drive-Cylinder Method Calculations

Client Code: STLALM
ETR: 133873
SDG: 70041727

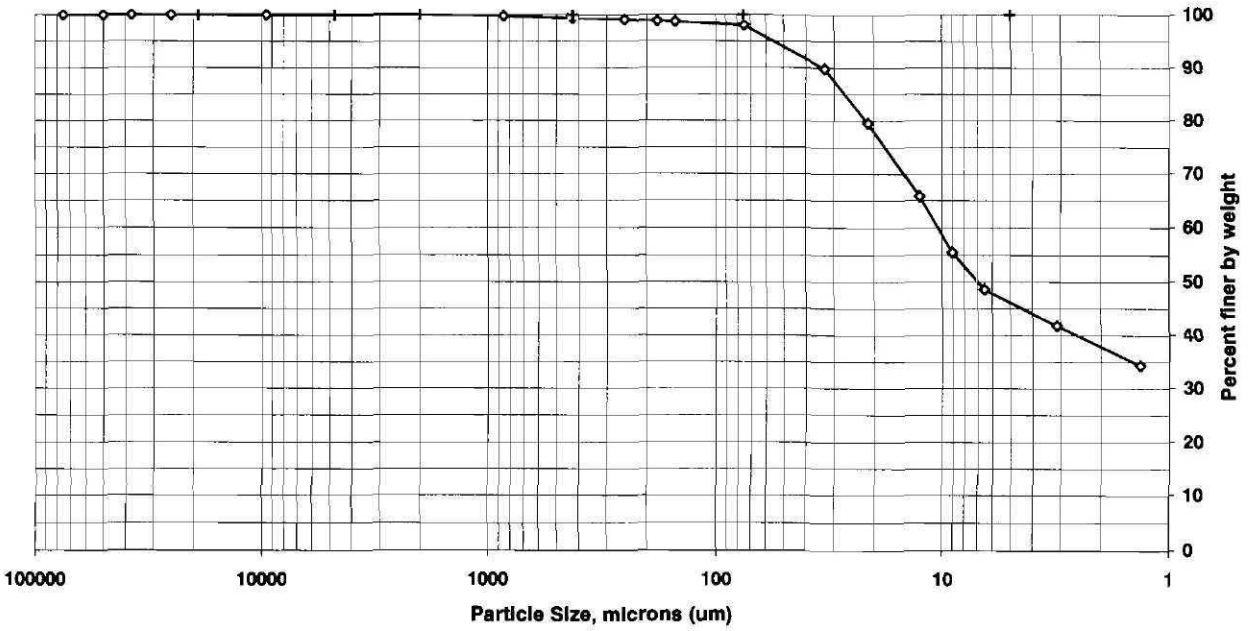
Start Date: 10/22/2009
Start Time: 1745
End Date: 10/24/2009
Analyst: MAP

Laboratory Number	Weight Of					Measurement of							
	Container (g)	Container + Sample (g)	Pan (g)	Pan + Wet Sample (g)	Pan + Dry Sample (g)	Sample Recovery (cm)	Container Diameter (cm)	Area (cm^2)	Wet Sample (g)	Dry Mass Basis (%)	Sample Volume (cm^3)	Dry Mass (g)	In-Place Density (g/cm^3)
808256	125.74	254.35	3.83	36.45	12.53	4.59	5.50	23.76	128.61	274.9%	109.05	34.30	0.31
808257	127.11	269.60	3.80	51.19	15.88	5.26	5.50	23.76	142.49	292.3%	124.97	36.32	0.29
808258	125.69	247.57	3.76	35.09	11.78	4.80	5.50	23.76	121.88	290.6%	114.04	31.20	0.27
808259	124.98	259.47	3.76	35.51	11.80	4.71	5.50	23.76	134.49	294.9%	111.90	34.06	0.30
808260	125.00	267.44	3.78	49.58	16.37	4.88	5.50	23.76	142.44	263.8%	115.94	39.16	0.34
808261	124.67	246.31	3.81	30.50	14.68	3.79	5.50	23.76	121.64	145.5%	90.04	49.54	0.55
808262	125.59	311.24	3.84	80.07	44.84	5.22	5.50	23.76	185.65	85.9%	124.02	99.85	0.81
808263	125.80	306.49	3.88	81.21	45.68	5.22	5.50	23.76	180.69	85.0%	124.02	97.67	0.79
808264	125.79	311.93	3.83	78.64	42.86	5.51	5.50	23.76	186.14	91.7%	130.91	97.11	0.74
808265	126.45	305.90	3.80	82.07	44.33	5.30	5.50	23.76	179.45	93.1%	125.92	92.92	0.74

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR4-CA-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808214			**End Date:**	10/24/2009

Percent Solids:	28.7%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.7	0.3
#40	425	99.3	0.4
#60	250	99.1	0.2
#80	180	98.8	0.3
#100	150	98.7	0.1
#200	75	98.0	0.6
Hydrometer	33.0	89.8	8.2
|	21.2	79.5	10.3
|	12.5	65.8	13.7
|	9.0	55.5	10.3
|	6.5	48.6	6.9
|	3.1	41.8	6.9
V	1.3	34.3	7.4

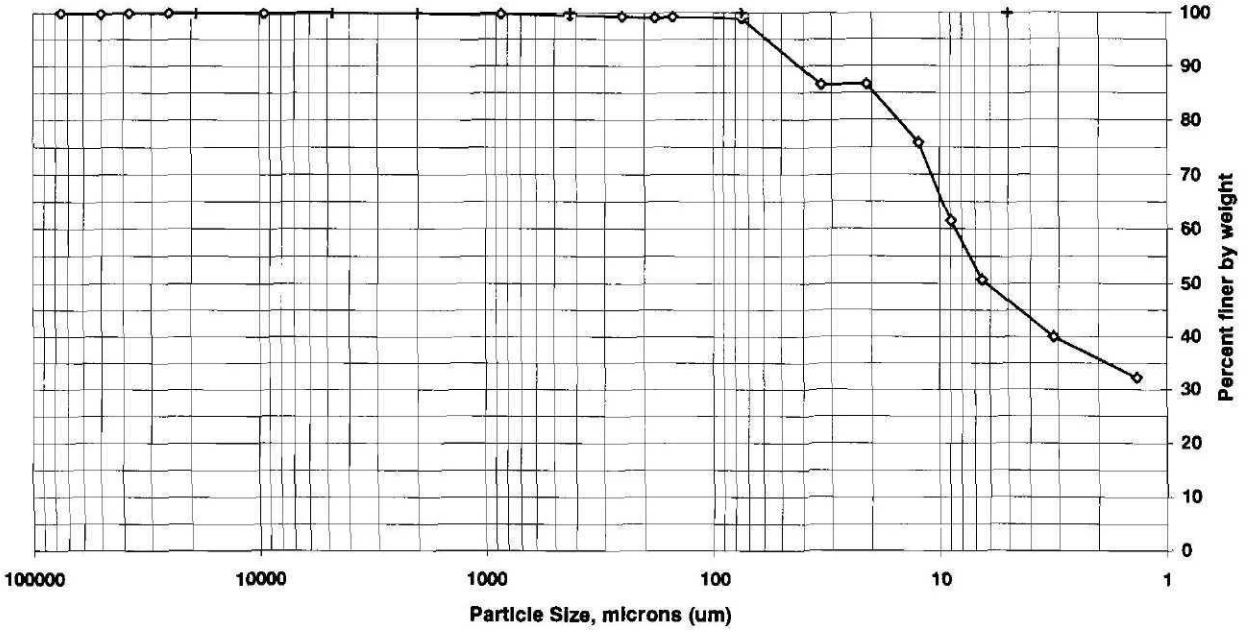
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	2.0
Coarse Sand	0.0
Medium Sand	0.7
Fine Sand	1.3
Silt	49.4
Clay	48.6

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR4-CB-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808215			**End Date:**	10/24/2009

Percent Solids:	27.7%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	subangular
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.9	0.1
#20	850	99.7	0.1
#40	425	99.5	0.3
#60	250	99.3	0.2
#80	180	99.2	0.1
#100	150	99.2	0.0
#200	75	98.9	0.2
Hydrometer	33.3	86.5	12.4
	21.1	86.5	0.0
	12.4	75.8	10.7
	8.9	61.5	14.3
	6.5	50.7	10.7
	3.1	40.0	10.7
V	1.3	32.2	7.8

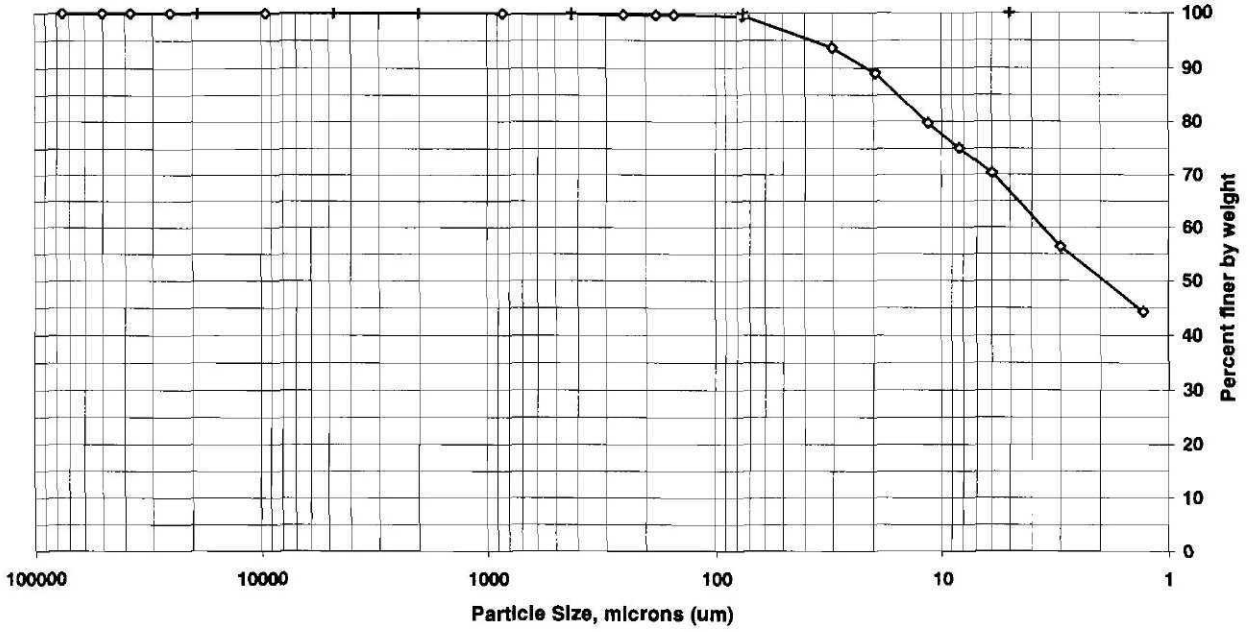
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	1.1
Coarse Sand	0.1
Medium Sand	0.4
Fine Sand	0.5
Silt	48.2
Clay	50.7

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR4-CC-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808216			**End Date:**	10/24/2009

Percent Solids:	41.1%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.7	0.2
#60	250	99.7	0.1
#80	180	99.6	0.1
#100	150	99.6	0.0
#200	75	99.4	0.2
Hydrometer	30.3	93.7	5.7
|	19.4	89.0	4.7
|	11.5	79.7	9.3
|	8.4	75.0	4.7
|	6.0	70.4	4.7
|	3.0	56.4	14.0
V	1.3	44.3	12.1

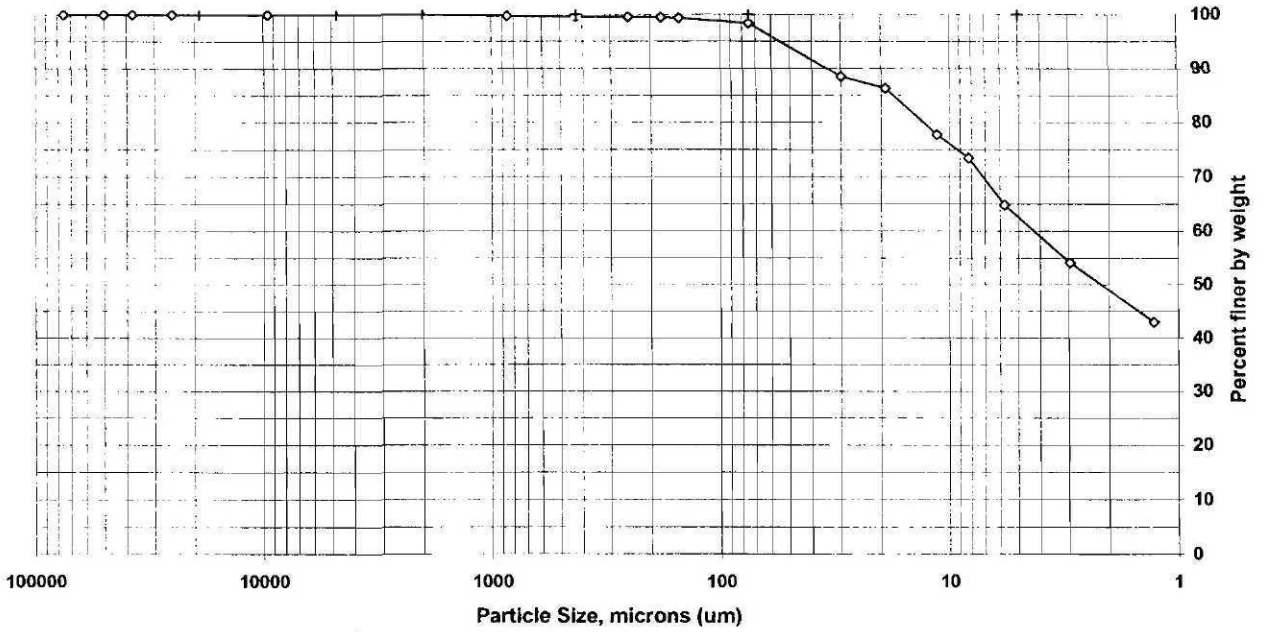
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.6
Coarse Sand	0.0
Medium Sand	0.3
Fine Sand	0.3
Silt	29.1
Clay	70.4

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	09/30/2009
Sample ID:	SDCR4-CD-092709	**ETR(s):**	133873	**Start Date:**	10/06/2009
Lab ID:	808217			**End Date:**	10/24/2009

Percent Solids:	46.4%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.8	0.2
#40	425	99.6	0.2
#60	250	99.5	0.1
#80	180	99.4	0.1
#100	150	99.3	0.1
#200	75	98.4	1.0
Hydrometer	30.1	88.5	9.9
I	19.1	86.3	2.1
I	11.3	77.7	8.6
I	8.3	73.4	4.3
I	5.7	64.8	8.6
I	3.0	54.1	10.7
V	1.3	43.0	11.1

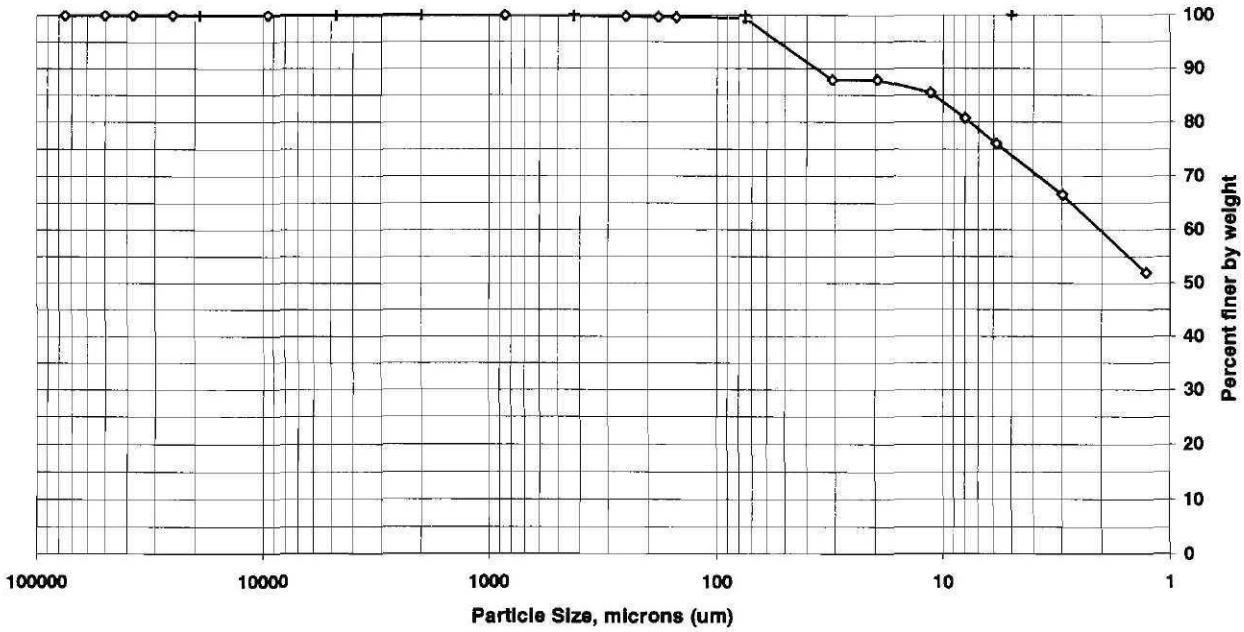
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	1.6
Coarse Sand	0.0
Medium Sand	0.4
Fine Sand	1.2
Silt	33.5
Clay	64.8

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR4-CE-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808218			**End Date:**	10/24/2009

Percent Solids:	42.4%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.8	0.1
#60	250	99.8	0.1
#80	180	99.6	0.1
#100	150	99.6	0.1
#200	75	99.5	0.1
Hydrometer	30.9	87.8	11.7
|	19.5	87.8	0.0
|	11.3	85.4	2.4
|	8.0	80.7	4.7
|	5.8	76.0	4.7
|	3.0	66.5	9.4
V	1.3	52.0	14.6

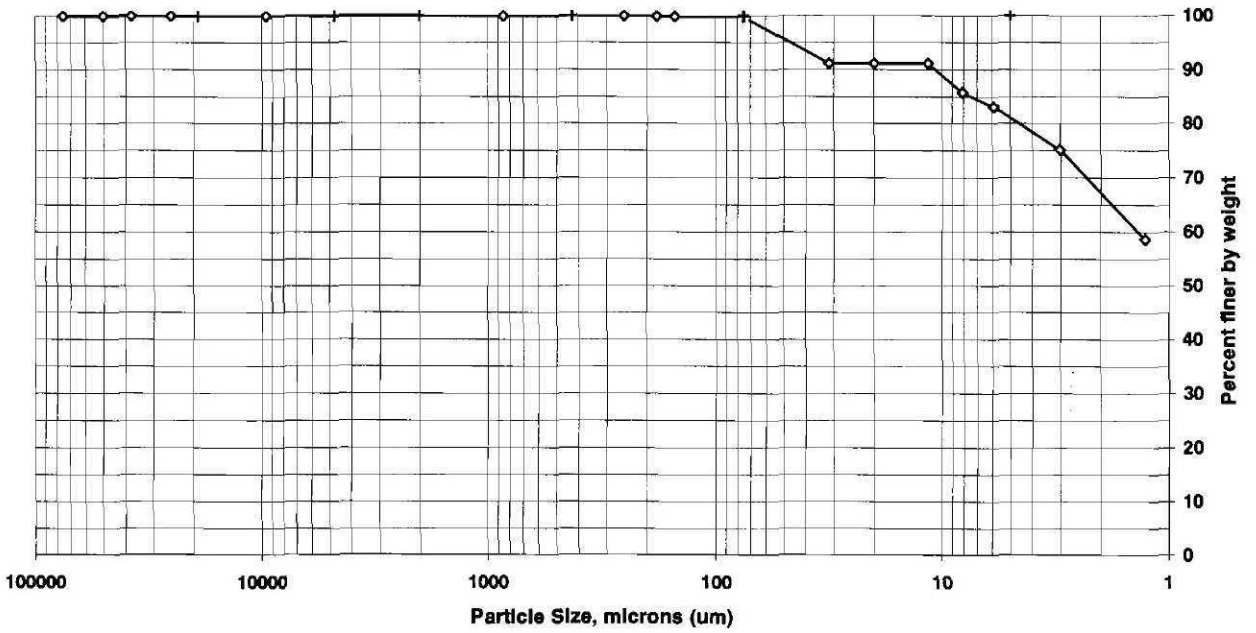
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.5
Coarse Sand	0.0
Medium Sand	0.2
Fine Sand	0.4
Silt	23.5
Clay	76.0

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR4-CF-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808219			**End Date:**	10/24/2009

Percent Solids:	44.6%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.9	0.0
#60	250	99.9	0.0
#80	180	99.9	0.1
#100	150	99.8	0.0
#200	75	99.8	0.1
Hydrometer	31.4	91.1	8.7
	19.9	91.1	0.0
	11.5	91.1	0.0
	8.1	85.8	5.3
	5.9	83.1	2.7
	3.0	75.1	8.0
V	1.3	58.7	16.4

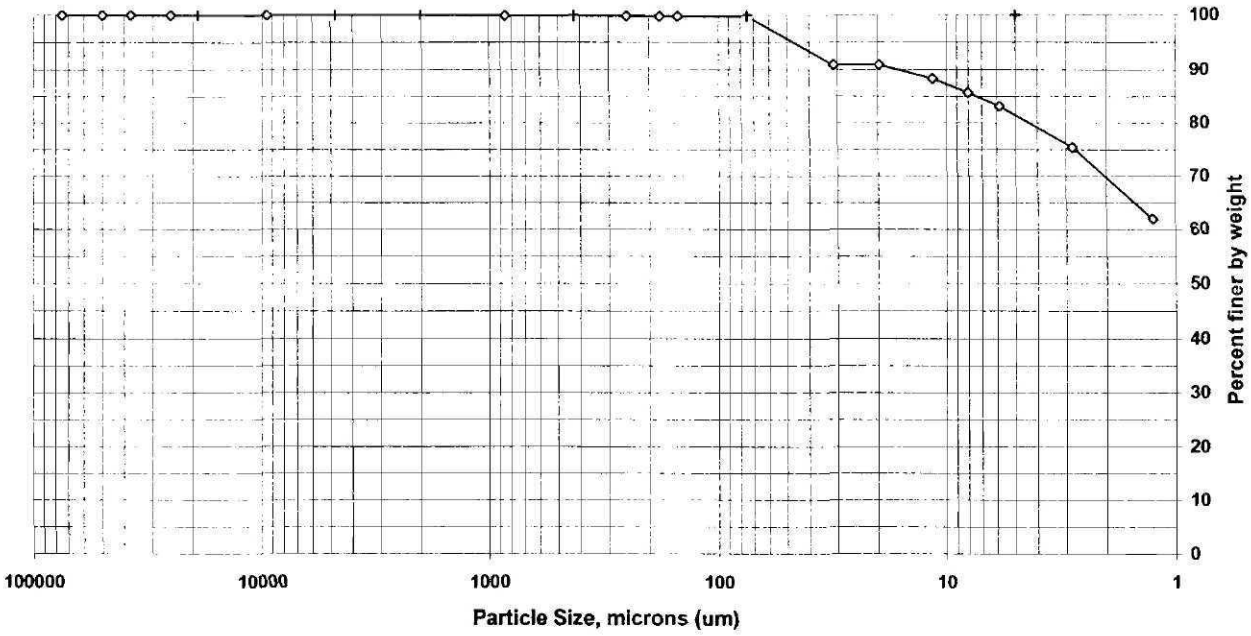
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.2
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.2
Silt	16.7
Clay	83.1

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	09/30/2009
Sample ID:	SDCR4-CG-092709	**ETR(s):**	133873	**Start Date:**	10/06/2009
Lab ID:	808220			**End Date:**	10/24/2009

Percent Solids:	45.0%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.8	0.1
#60	250	99.8	0.0
#80	180	99.7	0.1
#100	150	99.7	0.0
#200	75	99.7	0.0
Hydrometer	31.3	90.9	8.9
|	19.8	90.9	0.0
|	11.5	88.3	2.6
|	8.0	85.7	2.6
|	5.9	83.1	2.6
|	2.8	75.4	7.8
V	1.3	62.0	13.4

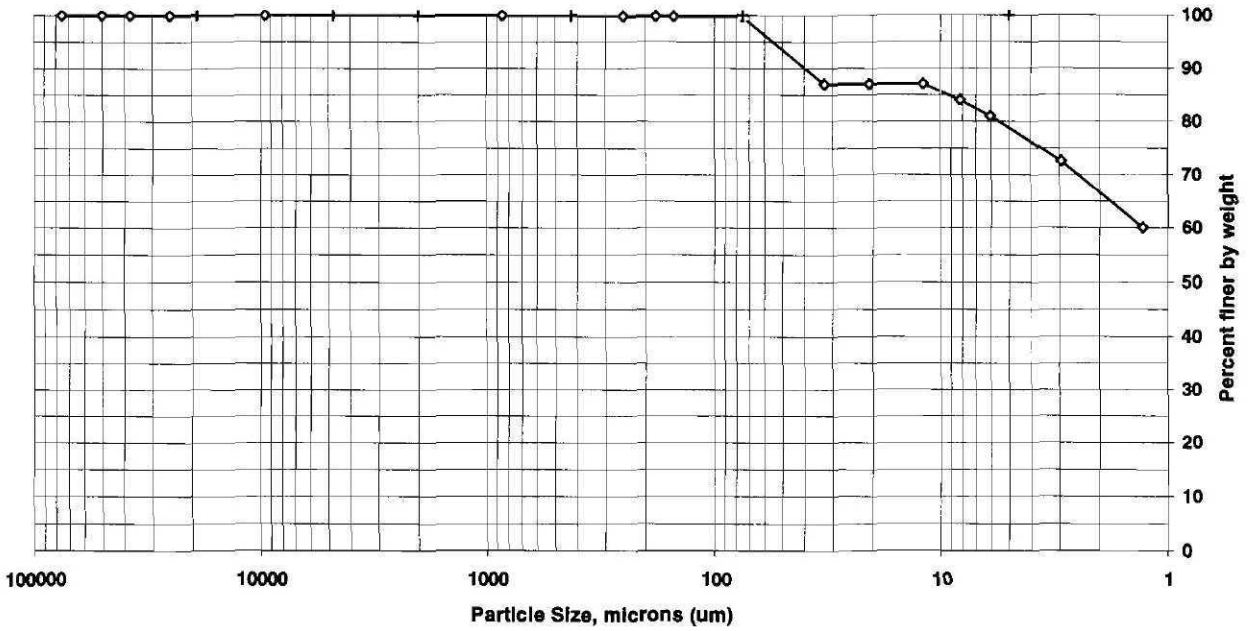
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.3
Coarse Sand	0.0
Medium Sand	0.2
Fine Sand	0.1
Silt	16.6
Clay	83.1

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR4-CH-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808221			**End Date:**	10/24/2009

Percent Solids:	45.7%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.9	0.1
#60	250	99.8	0.0
#80	180	99.8	0.0
#100	150	99.8	0.0
#200	75	99.8	0.0
Hydrometer	32.6	87.1	12.7
|	20.6	87.1	0.0
|	11.9	87.1	0.0
|	8.2	84.0	3.0
|	6.0	81.0	3.0
|	2.9	72.5	8.5
V	1.3	60.0	12.5

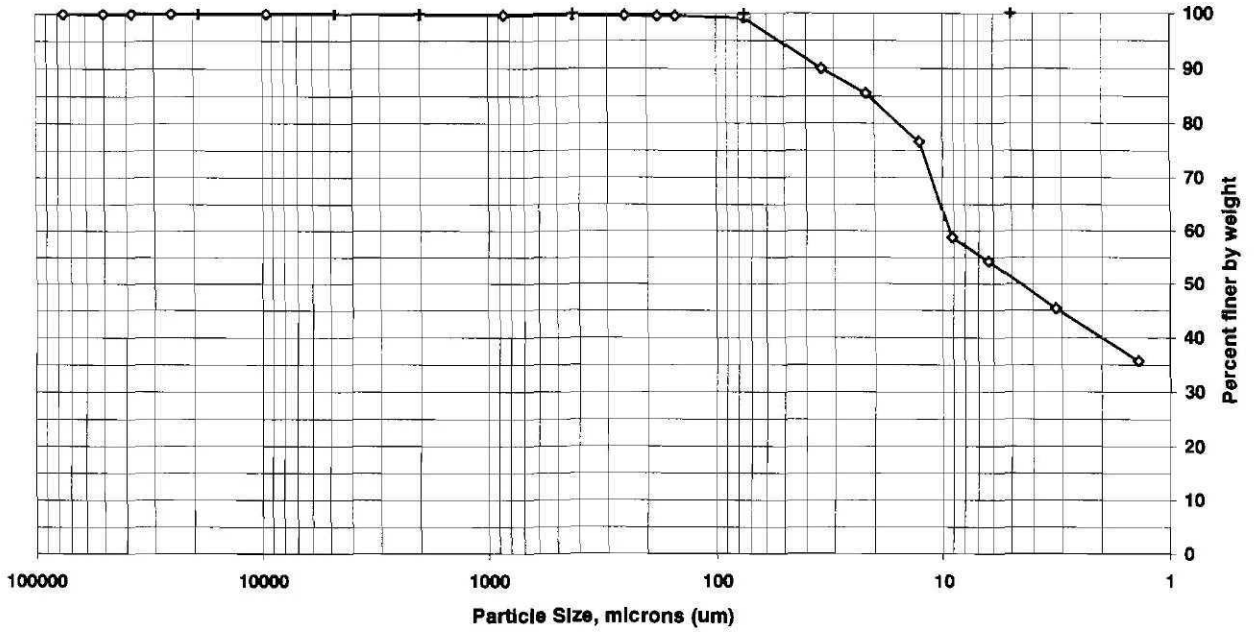
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.2
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.1
Silt	18.7
Clay	81.0

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR5-CA-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808222			**End Date:**	10/24/2009

Percent Solids:	22.4%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.8	0.2
#20	850	99.7	0.1
#40	425	99.6	0.1
#60	250	99.6	0.0
#80	180	99.5	0.1
#100	150	99.5	0.0
#200	75	99.2	0.3
Hydrometer	34.1	90.0	9.3
|	21.6	85.5	4.5
|	12.6	76.6	8.9
|	9.1	58.7	17.8
|	6.3	54.3	4.5
|	3.2	45.4	8.9
V	1.4	35.7	9.7

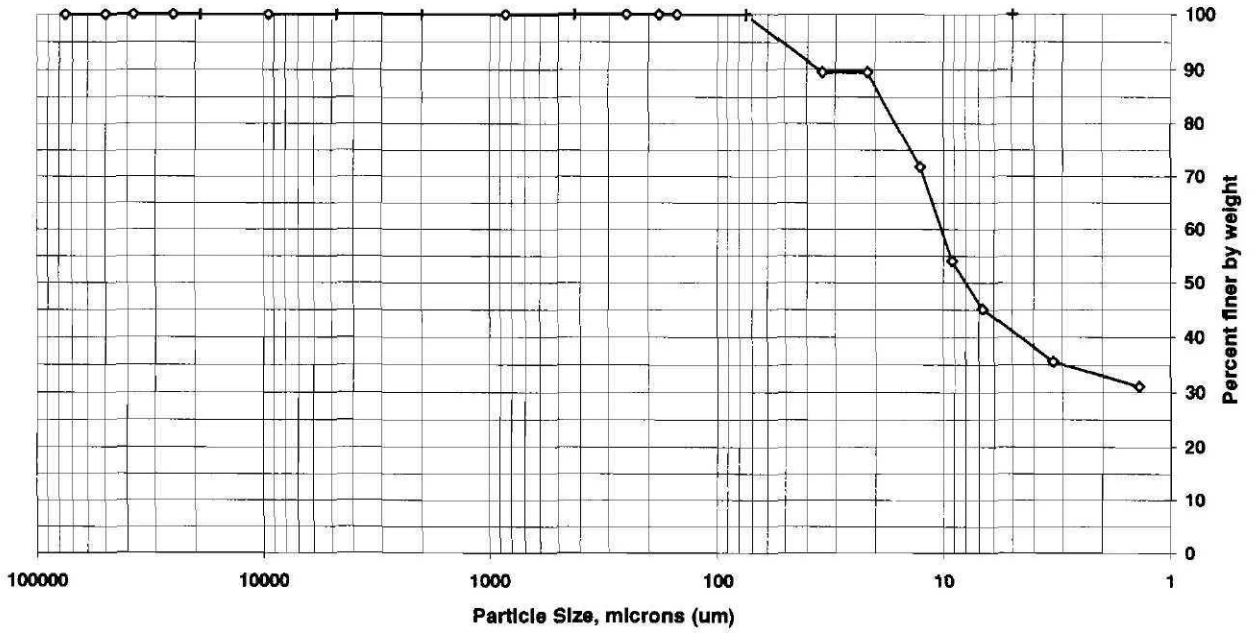
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.8
Coarse Sand	0.2
Medium Sand	0.2
Fine Sand	0.4
Silt	44.9
Clay	54.3

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR5-CB-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808223			**End Date:**	10/24/2009

Percent Solids:	23.8%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Fine sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	100.0	0.0
#60	250	100.0	0.0
#80	180	99.9	0.1
#100	150	99.9	0.0
#200	75	99.9	0.1
Hydrometer	34.1	89.5	10.4
	21.5	89.5	0.0
	12.7	71.8	17.8
	9.2	54.0	17.8
	6.7	45.1	8.9
	3.3	35.5	9.6
V	1.4	31.1	4.4

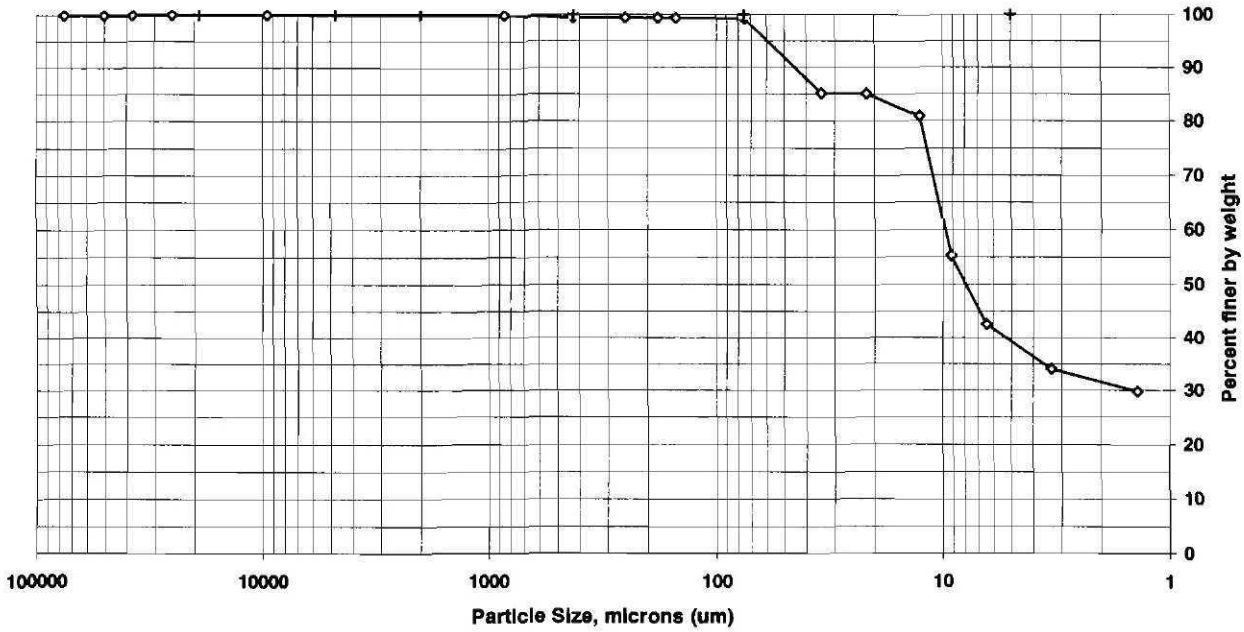
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.1
Coarse Sand	0.0
Medium Sand	0.0
Fine Sand	0.1
Silt	54.8
Clay	45.1

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR5-CC-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808224			**End Date:**	10/24/2009

Percent Solids:	26.1%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.4	0.6
#60	250	99.4	0.0
#80	180	99.4	0.1
#100	150	99.3	0.1
#200	75	99.2	0.1
Hydrometer	34.3	85.1	14.1
	21.7	85.1	0.0
	12.6	80.8	4.3
	9.2	55.3	25.5
	6.4	42.5	12.8
	3.3	34.0	8.5
V	1.4	29.8	4.3

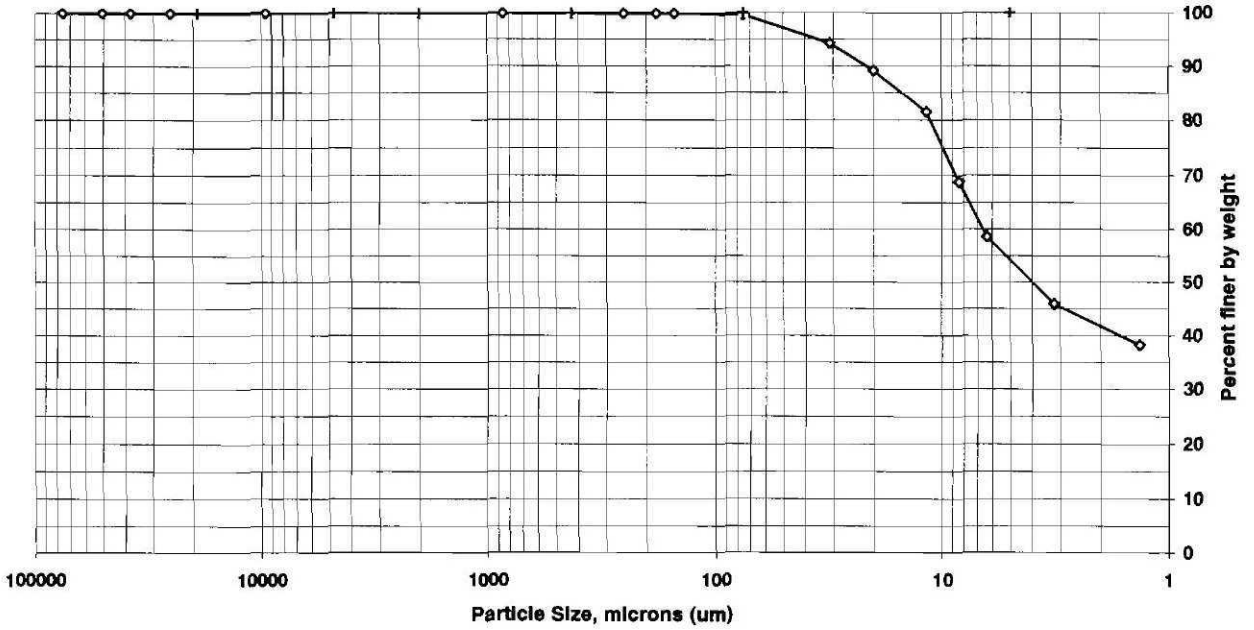
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.8
Coarse Sand	0.0
Medium Sand	0.6
Fine Sand	0.2
Silt	56.7
Clay	42.5

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR5-CD-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808225			**End Date:**	10/24/2009

Percent Solids:	35.8%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.9	0.1
#20	850	99.9	0.0
#40	425	99.9	0.0
#60	250	99.9	0.0
#80	180	99.9	0.0
#100	150	99.9	0.0
#200	75	99.6	0.3
Hydrometer	31.1	94.3	5.3
|	19.9	89.2	5.1
|	11.7	81.5	7.6
|	8.4	68.8	12.7
|	6.3	58.6	10.2
|	3.2	45.9	12.7
V	1.3	38.2	7.6

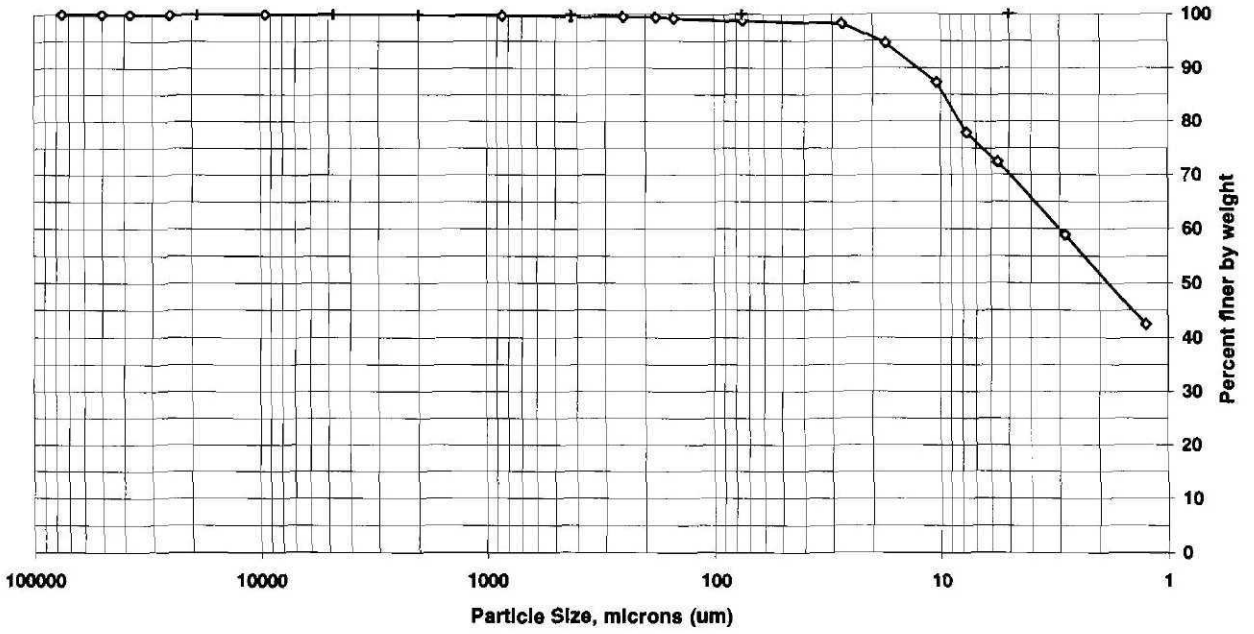
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.4
Coarse Sand	0.1
Medium Sand	0.0
Fine Sand	0.3
Silt	41.0
Clay	58.6

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR5-CE-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808226			**End Date:**	10/26/2009

Percent Solids:	46.7%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.9	0.1
#20	850	99.7	0.2
#40	425	99.6	0.2
#60	250	99.5	0.1
#80	180	99.4	0.1
#100	150	99.2	0.2
#200	75	98.8	0.5
Hydrometer	27.2	98.3	0.5
	17.5	94.6	3.7
	10.4	87.3	7.3
	7.7	77.8	9.5
	5.6	72.3	5.5
	2.8	58.9	13.4
V	1.3	42.4	16.5

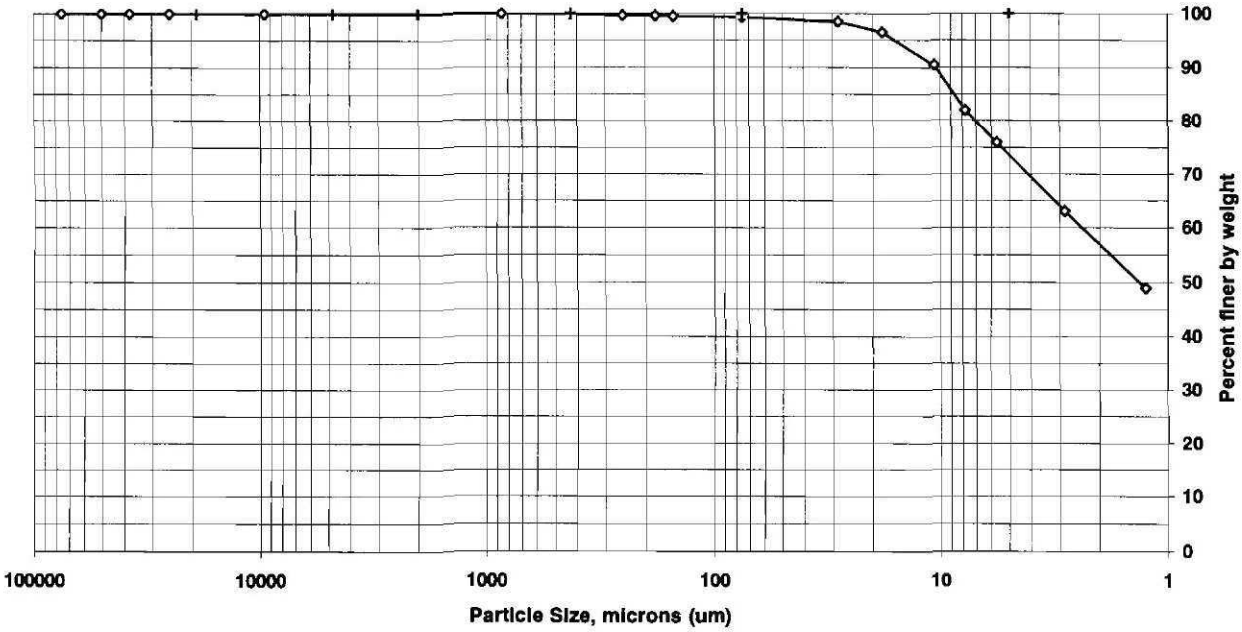
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	1.2
Coarse Sand	0.1
Medium Sand	0.4
Fine Sand	0.8
Silt	26.4
Clay	72.3

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR5-CF-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808227			**End Date:**	10/26/2009

Percent Solids:	47.8%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.8	0.1
#60	250	99.6	0.2
#80	180	99.6	0.1
#100	150	99.5	0.1
#200	75	99.3	0.1
Hydrometer	28.3	98.5	0.8
|	18.0	96.5	2.0
|	10.6	90.4	6.1
|	7.8	82.0	8.4
|	5.7	75.9	6.1
|	2.8	63.1	12.8
V	1.2	48.9	14.2

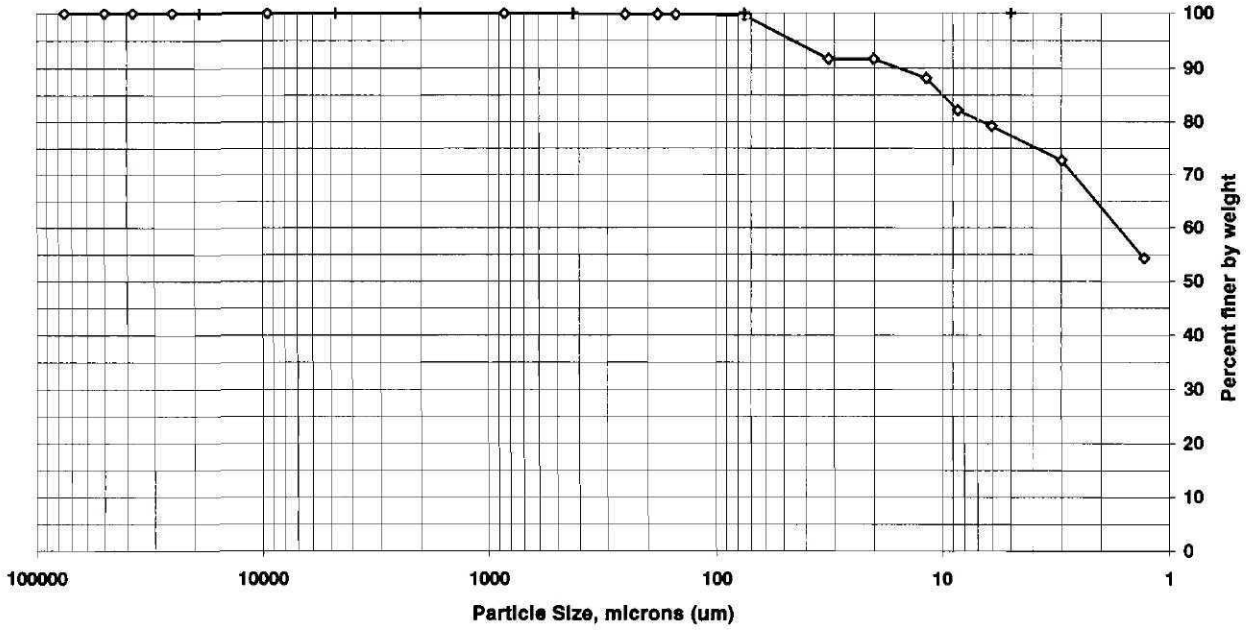
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.7
Coarse Sand	0.0
Medium Sand	0.2
Fine Sand	0.5
Silt	23.4
Clay	75.9

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR5-CG-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808228			**End Date:**	10/26/2009

Percent Solids:	42.0%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.9	0.1
#60	250	99.8	0.1
#80	180	99.8	0.0
#100	150	99.7	0.1
#200	75	99.6	0.1
Hydrometer	31.8	91.6	7.9
|	20.1	91.6	0.0
|	11.8	88.1	3.5
|	8.5	82.2	6.0
|	6.1	79.2	3.0
|	3.0	72.7	6.5
V	1.3	54.3	18.4

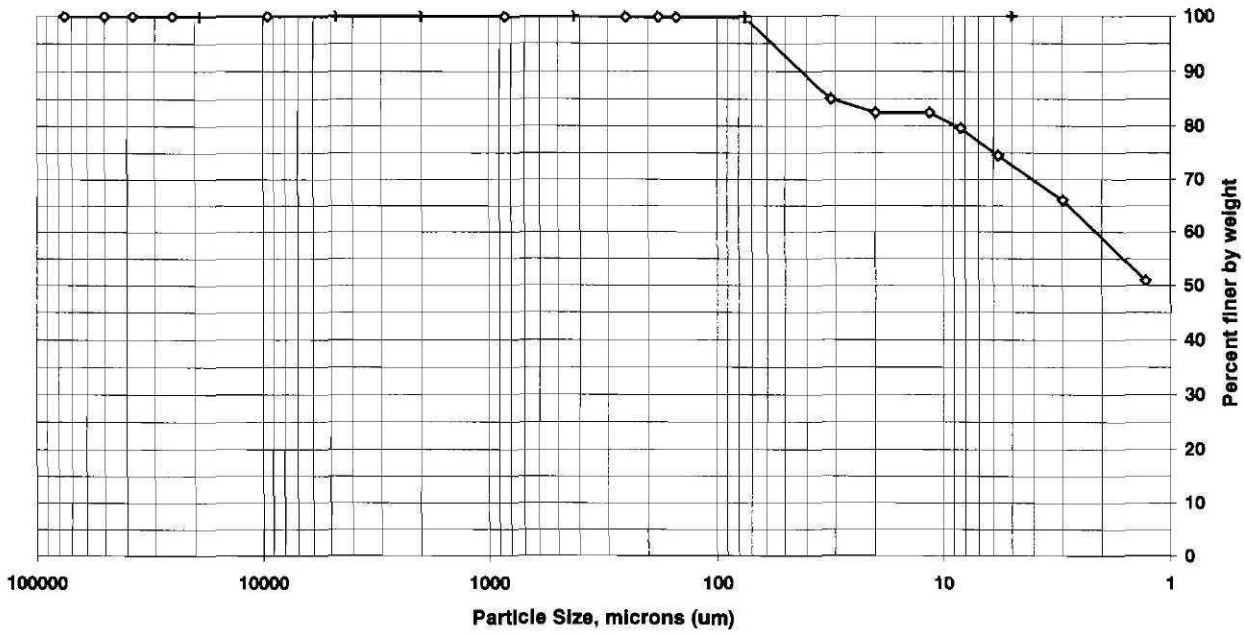
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.4
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.3
Silt	20.4
Clay	79.2

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR5-CH-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808229			**End Date:**	10/26/2009

Percent Solids:	43.8%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.9	0.0
#60	250	99.8	0.1
#80	180	99.8	0.0
#100	150	99.8	0.1
#200	75	99.7	0.1
Hydrometer	31.2	85.0	14.7
|	19.9	82.5	2.5
|	11.5	82.5	0.0
|	8.4	79.6	2.9
|	5.7	74.5	5.1
|	3.0	66.1	8.4
V	1.3	50.9	15.1

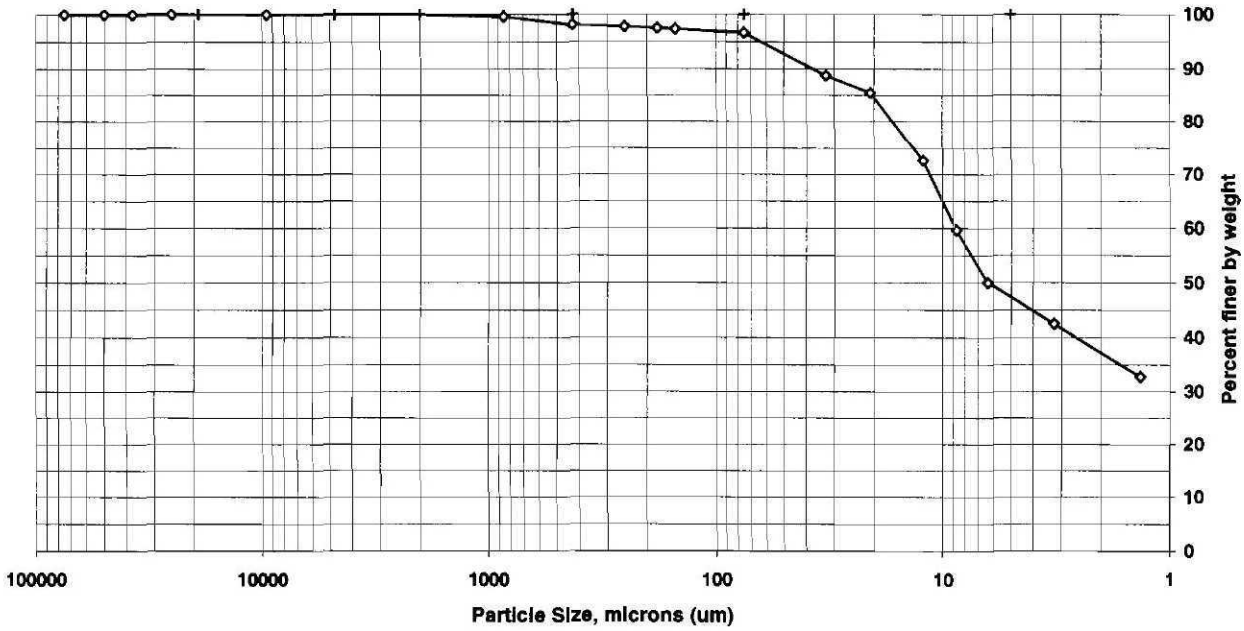
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.3
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.3
Silt	25.2
Clay	74.5

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR6-CA-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808230			**End Date:**	10/26/2009

Percent Solids:	27.9%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.6	0.4
#40	425	98.2	1.4
#60	250	97.8	0.4
#80	180	97.5	0.2
#100	150	97.4	0.2
#200	75	96.7	0.7
Hydrometer	32.5	88.7	8.0
|	20.7	85.5	3.2
|	12.2	72.6	12.9
|	8.7	59.7	12.9
|	6.3	50.0	9.7
|	3.2	42.5	7.5
V	1.3	32.8	9.7

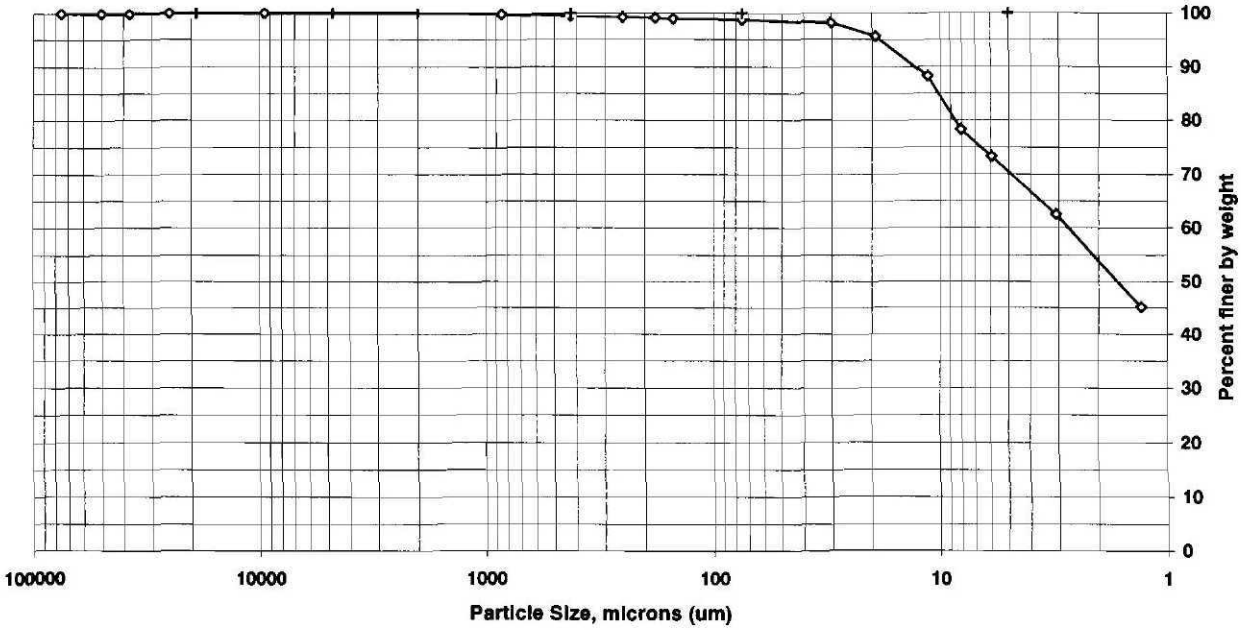
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	3.3
Coarse Sand	0.0
Medium Sand	1.8
Fine Sand	1.4
Silt	46.7
Clay	50.0

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR6-CB-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808231			**End Date:**	10/26/2009

Percent Solids:	37.7%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.4	0.4
#60	250	99.2	0.2
#80	180	99.1	0.1
#100	150	98.9	0.2
#200	75	98.8	0.2
Hydrometer	30.3	98.1	0.6
|	19.3	95.6	2.5
|	11.3	88.2	7.5
|	8.1	78.3	9.9
|	5.9	73.3	5.0
|	3.1	62.5	10.8
V	1.3	45.1	17.4

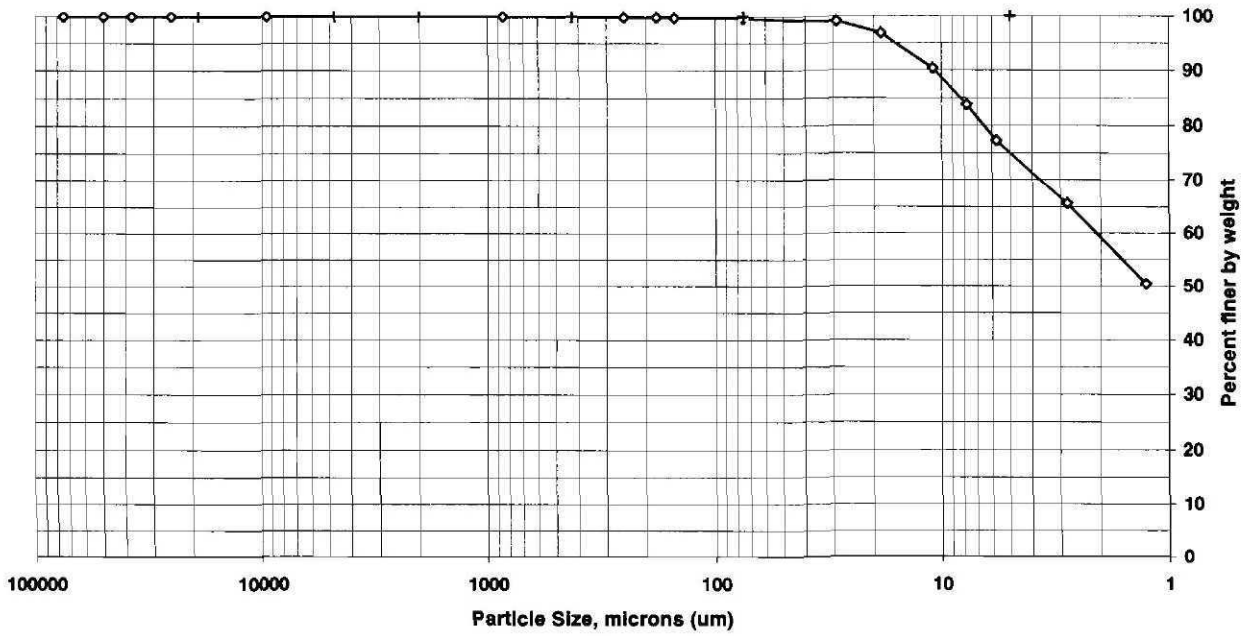
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	1.2
Coarse Sand	0.0
Medium Sand	0.6
Fine Sand	0.7
Silt	25.5
Clay	73.3

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR6-CC-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808232			**End Date:**	10/26/2009

Percent Solids:	44.7%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.9	0.1
#60	250	99.8	0.1
#80	180	99.8	0.0
#100	150	99.7	0.1
#200	75	99.6	0.1
Hydrometer	29.1	99.0	0.6
|	18.5	96.8	2.2
|	10.9	90.3	6.5
|	7.7	83.8	6.5
|	5.7	77.3	6.5
|	2.8	65.7	11.6
V	1.3	50.4	15.2

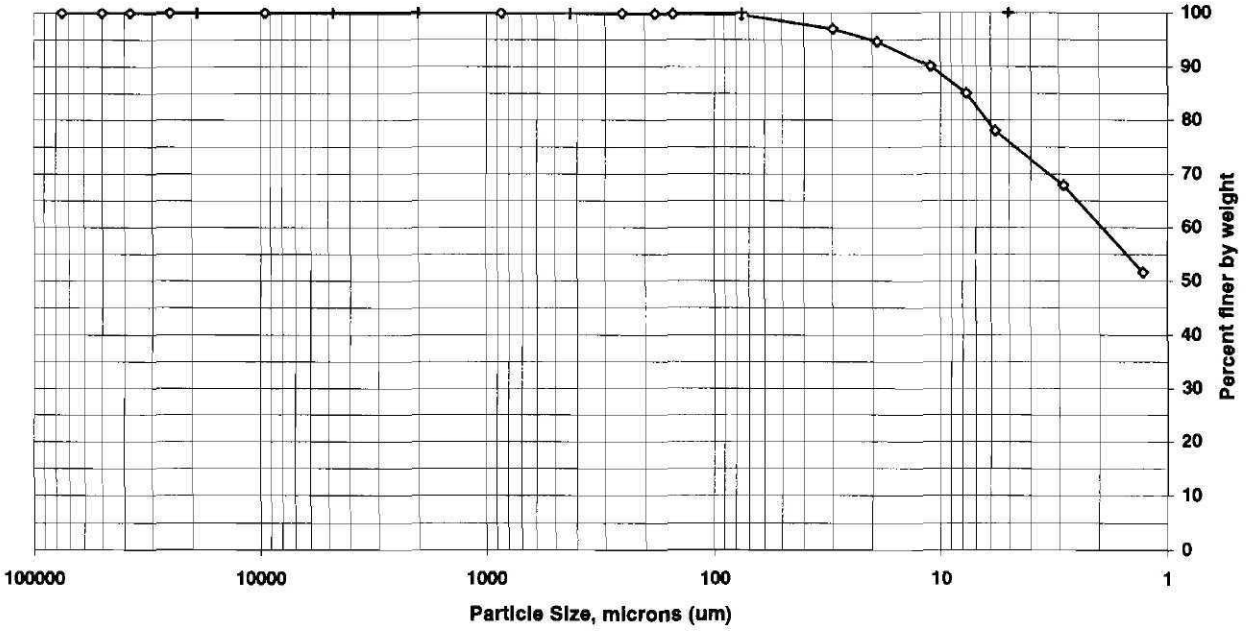
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.4
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.3
Silt	22.3
Clay	77.3

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR6-CD-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808233			**End Date:**	10/26/2009

Percent Solids:	46.5%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.9	0.1
#60	250	99.9	0.0
#80	180	99.8	0.0
#100	150	99.7	0.1
#200	75	99.6	0.1
Hydrometer	29.7	97.0	2.6
|	18.9	94.7	2.3
|	11.1	90.0	4.7
|	7.7	85.0	5.0
|	5.7	78.0	7.0
|	2.9	67.9	10.1
V	1.3	51.6	16.3

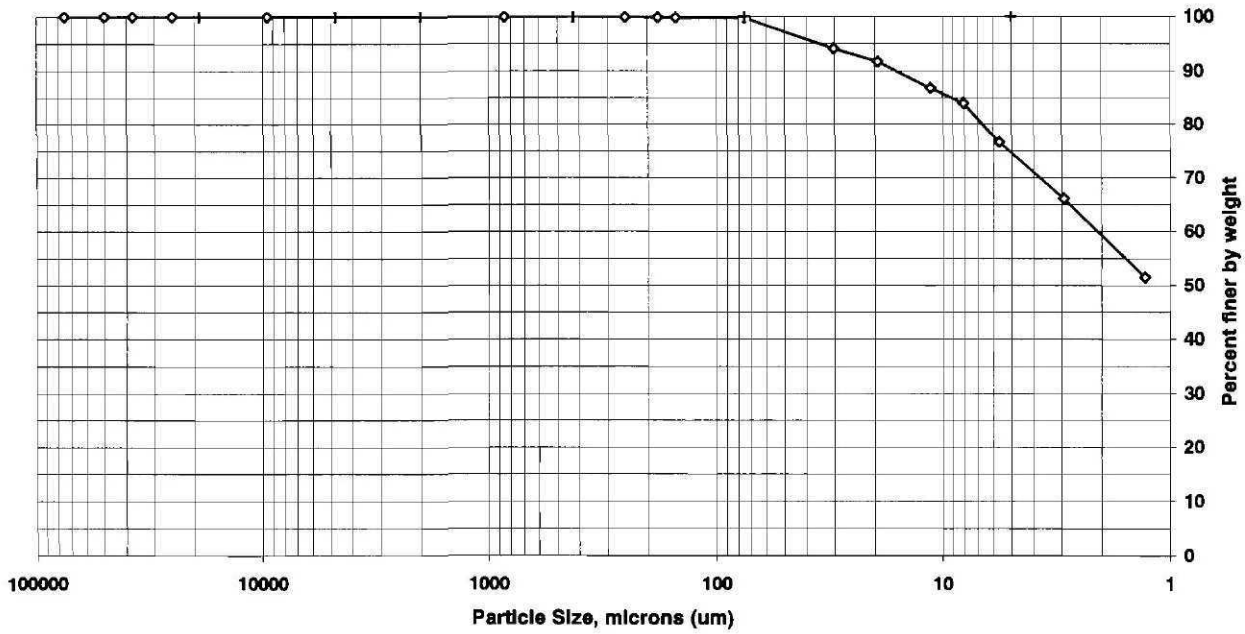
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.4
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.3
Silt	21.6
Clay	78.0

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR6-CE-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808234			**End Date:**	10/26/2009

Percent Solids:	46.5%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.9	0.1
#60	250	99.9	0.0
#80	180	99.8	0.0
#100	150	99.8	0.1
#200	75	99.7	0.1
Hydrometer	30.3	94.1	5.6
|	19.3	91.6	2.4
|	11.3	86.8	4.9
|	8.1	83.9	2.8
|	5.7	76.6	7.3
|	2.9	66.1	10.5
V	1.3	51.5	14.6

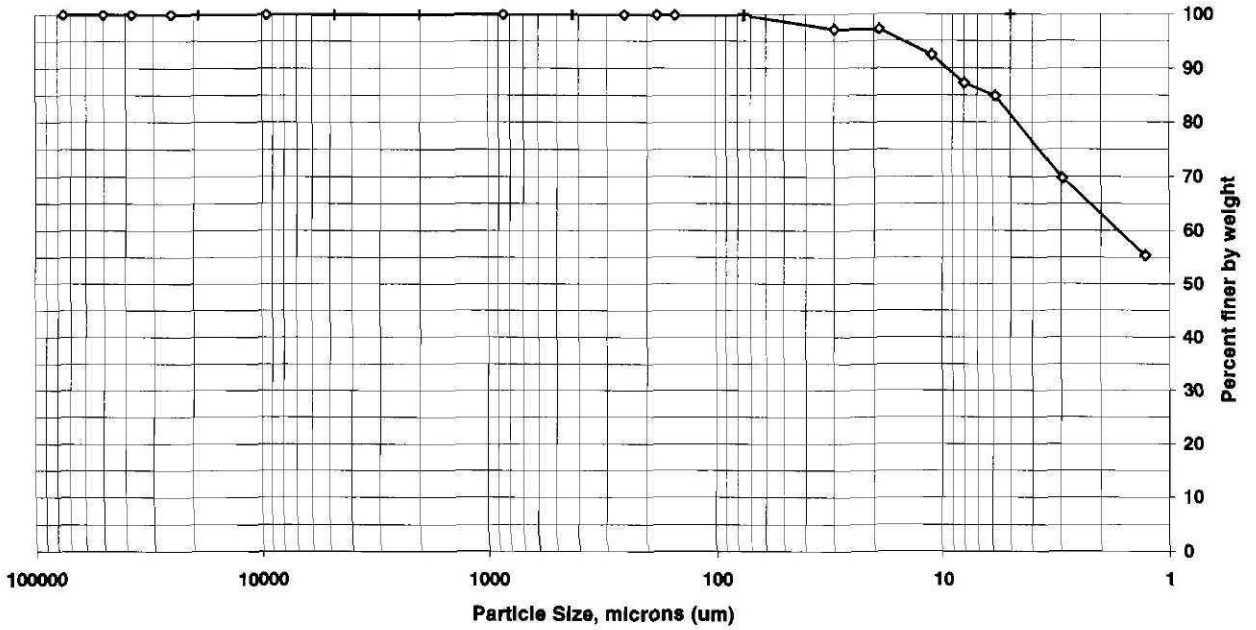
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.3
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.2
Silt	23.1
Clay	76.6

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR6-CF-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808235			**End Date:**	10/26/2009

Percent Solids:	47.9%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.9	0.1
#60	250	99.9	0.0
#80	180	99.9	0.0
#100	150	99.8	0.1
#200	75	99.8	0.1
Hydrometer	29.9	97.2	2.6
|	18.9	97.2	0.0
|	11.1	92.4	4.8
|	8.0	87.2	5.2
|	5.8	84.9	2.4
|	2.9	69.7	15.1
V	1.3	55.4	14.3

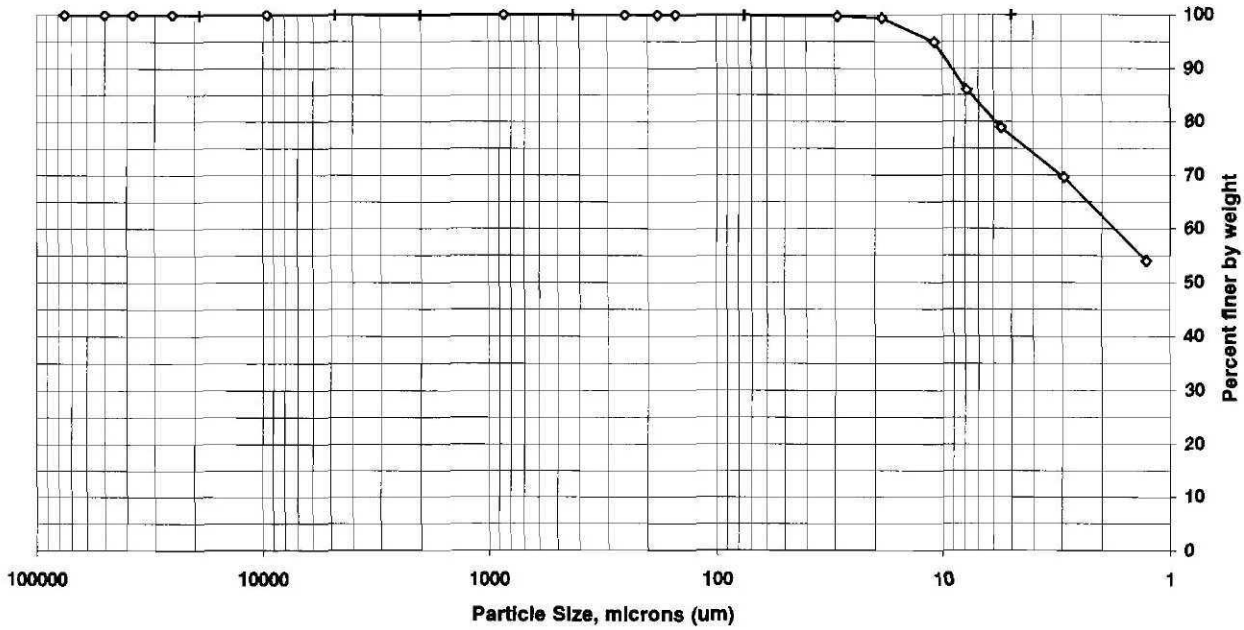
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.2
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.1
Silt	14.9
Clay	84.9

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR6-CG-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808236			**End Date:**	10/26/2009

Percent Solids:	50.0%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	100.0	0.0
#60	250	99.9	0.0
#80	180	99.9	0.0
#100	150	99.9	0.0
#200	75	99.9	0.0
Hydrometer	29.1	99.7	0.2
|	18.5	99.3	0.4
|	10.8	94.9	4.5
|	7.9	85.9	8.9
|	5.6	78.9	7.1
|	2.9	69.6	9.3
V	1.3	53.9	15.6

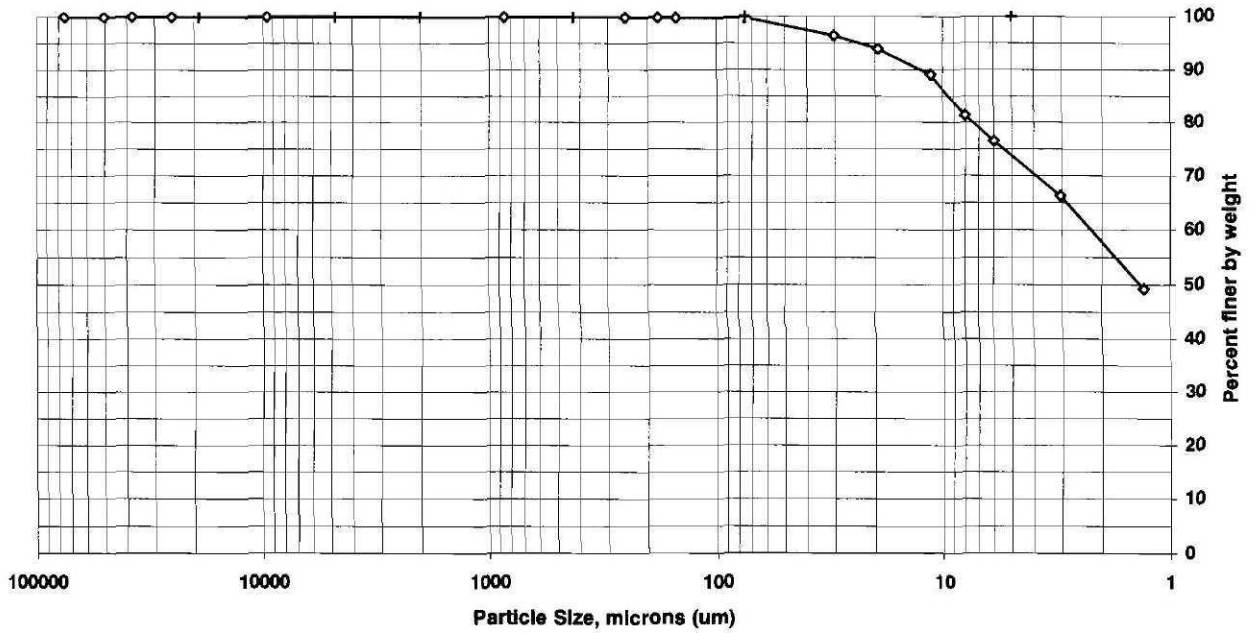
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.1
Coarse Sand	0.0
Medium Sand	0.0
Fine Sand	0.1
Silt	21.0
Clay	78.9

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR6-CH-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808237			**End Date:**	10/26/2009

Percent Solids:	49.4%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.9	0.0
#60	250	99.9	0.1
#80	180	99.8	0.0
#100	150	99.8	0.1
#200	75	99.8	0.0
Hydrometer	30.3	96.4	3.4
|	19.3	93.9	2.4
|	11.3	89.1	4.9
|	8.0	81.3	7.7
|	6.0	76.5	4.9
|	3.0	66.3	10.2
V	1.3	49.2	17.1

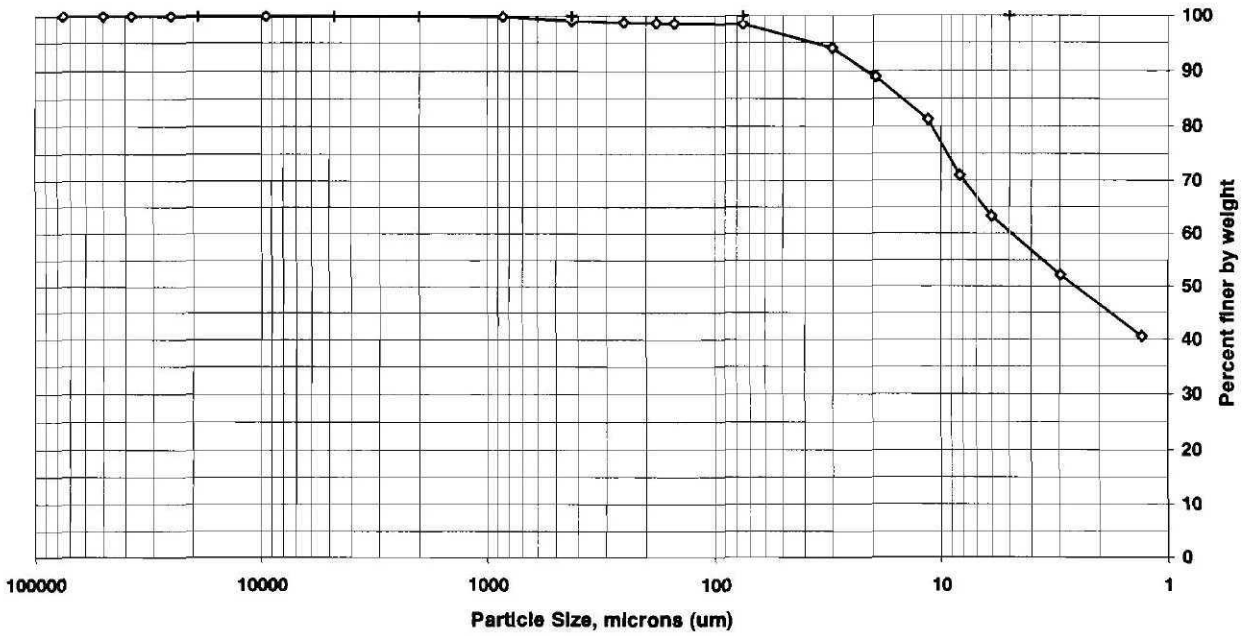
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.2
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.2
Silt	23.3
Clay	76.5

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR7-CA-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808238			**End Date:**	10/26/2009

Percent Solids:	35.2%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	rounded
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	soft



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.9	0.1
#20	850	99.8	0.1
#40	425	99.0	0.8
#60	250	98.7	0.3
#80	180	98.6	0.1
#100	150	98.6	0.1
#200	75	98.4	0.1
Hydrometer	30.3	94.0	4.4
|	19.4	88.9	5.1
|	11.4	81.2	7.7
|	8.3	70.9	10.3
|	6.0	63.2	7.7
|	3.0	52.1	11.1
V	1.3	40.6	11.5

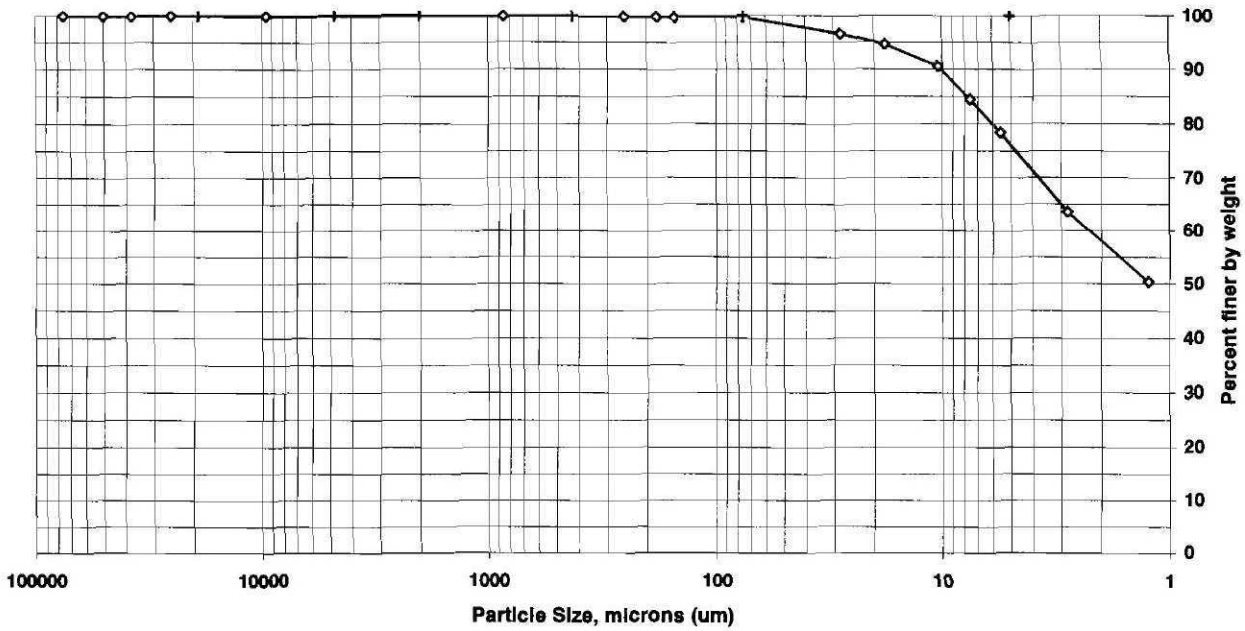
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	1.6
Coarse Sand	0.1
Medium Sand	0.9
Fine Sand	0.6
Silt	35.2
Clay	63.2

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR7-CB-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808239			**End Date:**	10/26/2009

Percent Solids:	43.5%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.9	0.1
#60	250	99.8	0.1
#80	180	99.8	0.0
#100	150	99.7	0.1
#200	75	99.7	0.1
Hydrometer	28.1	96.6	3.1
|	17.9	94.6	2.0
|	10.5	90.5	4.1
|	7.6	84.5	6.1
|	5.6	78.4	6.1
|	2.8	63.5	14.9
V	1.2	50.3	13.2

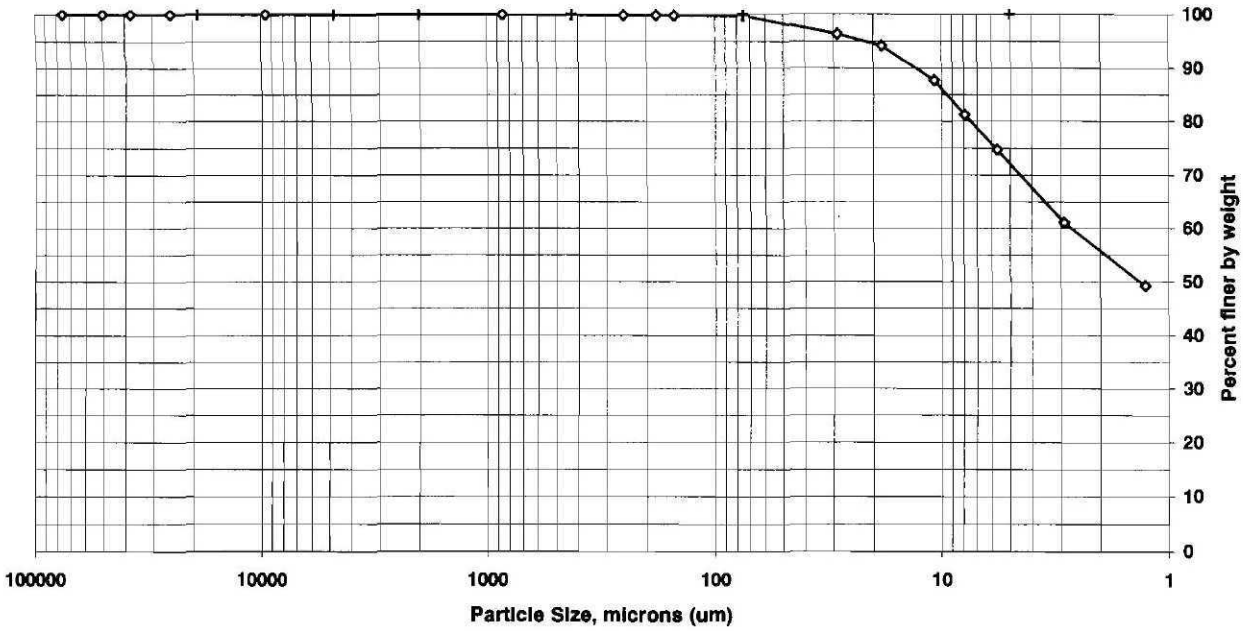
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.3
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.2
Silt	21.3
Clay	78.4

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR7-CC-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808240			**End Date:**	10/26/2009

Percent Solids:	46.6%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.9	0.1
#20	850	99.9	0.0
#40	425	99.8	0.1
#60	250	99.8	0.0
#80	180	99.8	0.0
#100	150	99.8	0.1
#200	75	99.8	0.0
Hydrometer	28.7	96.3	3.4
|	18.3	94.2	2.2
|	10.8	87.7	6.5
|	7.9	81.2	6.5
|	5.7	74.8	6.5
|	2.9	61.1	13.7
V	1.3	49.2	11.9

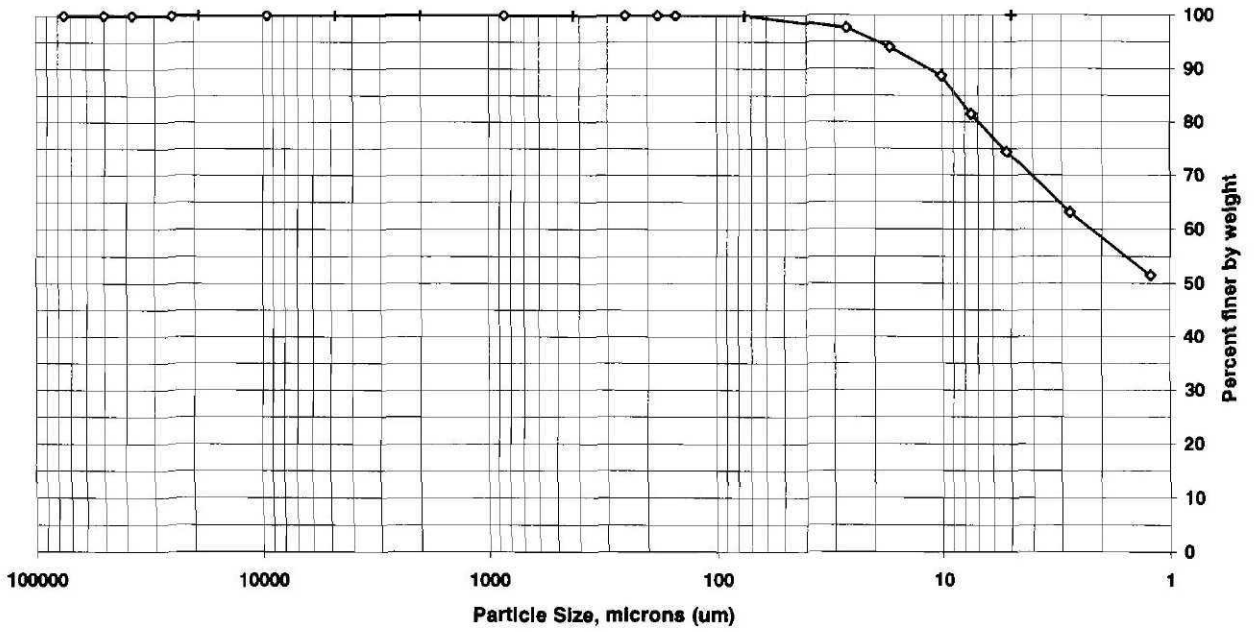
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.2
Coarse Sand	0.1
Medium Sand	0.1
Fine Sand	0.1
Silt	25.0
Clay	74.8

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR7-CD-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808241			**End Date:**	10/26/2009

Percent Solids:	49.2%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.9	0.0
#60	250	99.9	0.0
#80	180	99.9	0.0
#100	150	99.9	0.0
#200	75	99.9	0.0
Hydrometer	26.6	97.6	2.3
|	17.1	94.0	3.6
|	10.1	88.7	5.4
|	7.5	81.5	7.1
|	5.2	74.4	7.1
|	2.8	63.1	11.3
V	1.2	51.5	11.6

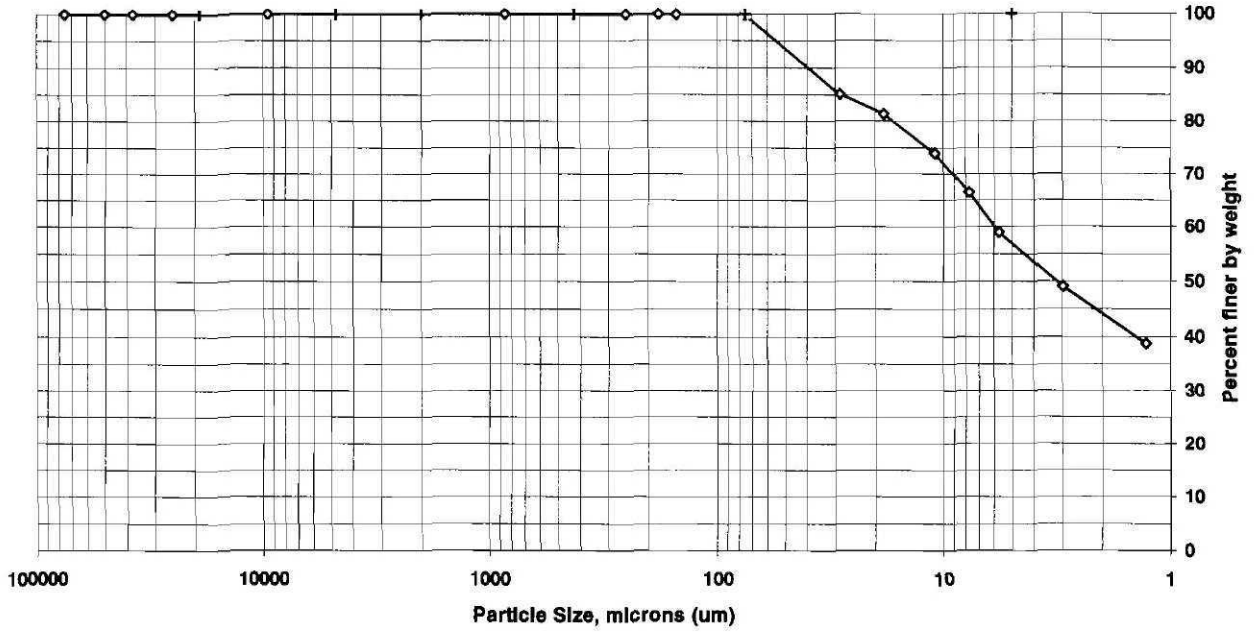
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.1
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.0
Silt	25.5
Clay	74.4

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR7-CE-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808242			**End Date:**	10/26/2009

Percent Solids:	51.0%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	100.0	0.0
#60	250	99.9	0.0
#80	180	99.9	0.0
#100	150	99.9	0.1
#200	75	99.8	0.0
Hydrometer	28.5	85.0	14.8
|	18.3	81.3	3.7
|	10.8	73.9	7.4
|	7.7	66.4	7.4
|	5.7	59.0	7.4
|	3.0	49.0	9.9
V	1.3	38.8	10.2

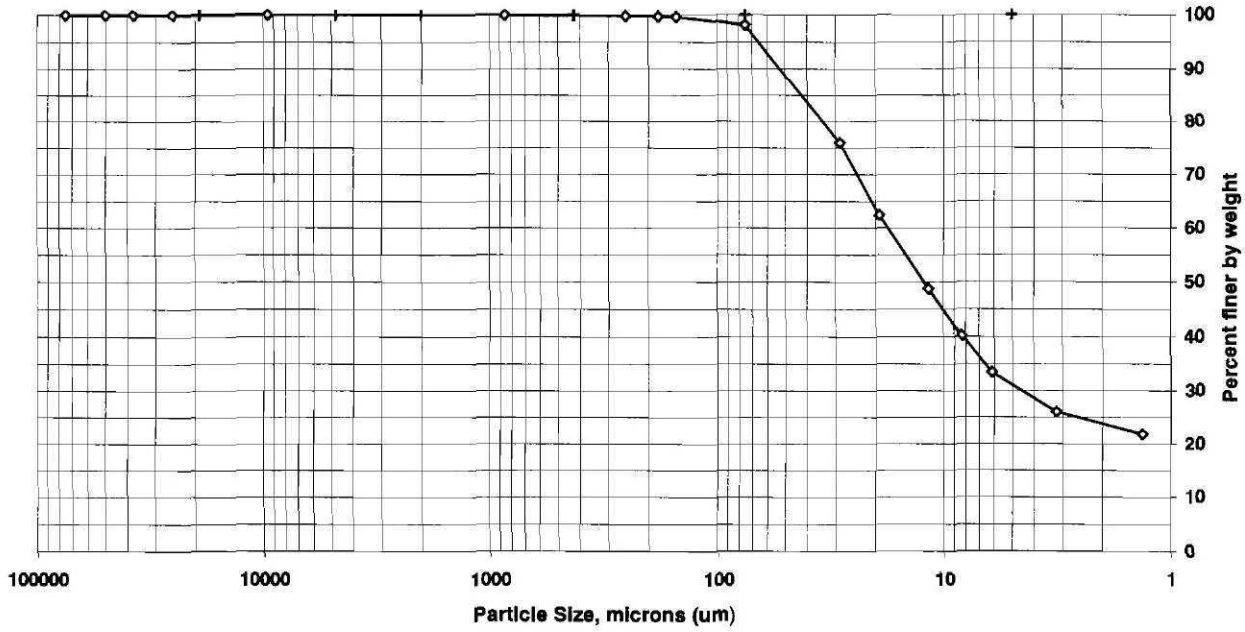
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.2
Coarse Sand	0.0
Medium Sand	0.0
Fine Sand	0.1
Silt	40.9
Clay	59.0

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR7-CF-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808243			**End Date:**	10/26/2009

Percent Solids:	59.6%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.8	0.1
#60	250	99.7	0.1
#80	180	99.7	0.0
#100	150	99.6	0.1
#200	75	98.2	1.4
Hydrometer	28.7	76.0	22.3
	19.2	62.4	13.6
	11.6	48.7	13.6
	8.3	40.2	8.5
	6.2	33.4	6.8
	3.2	26.1	7.4
V	1.3	21.8	4.3

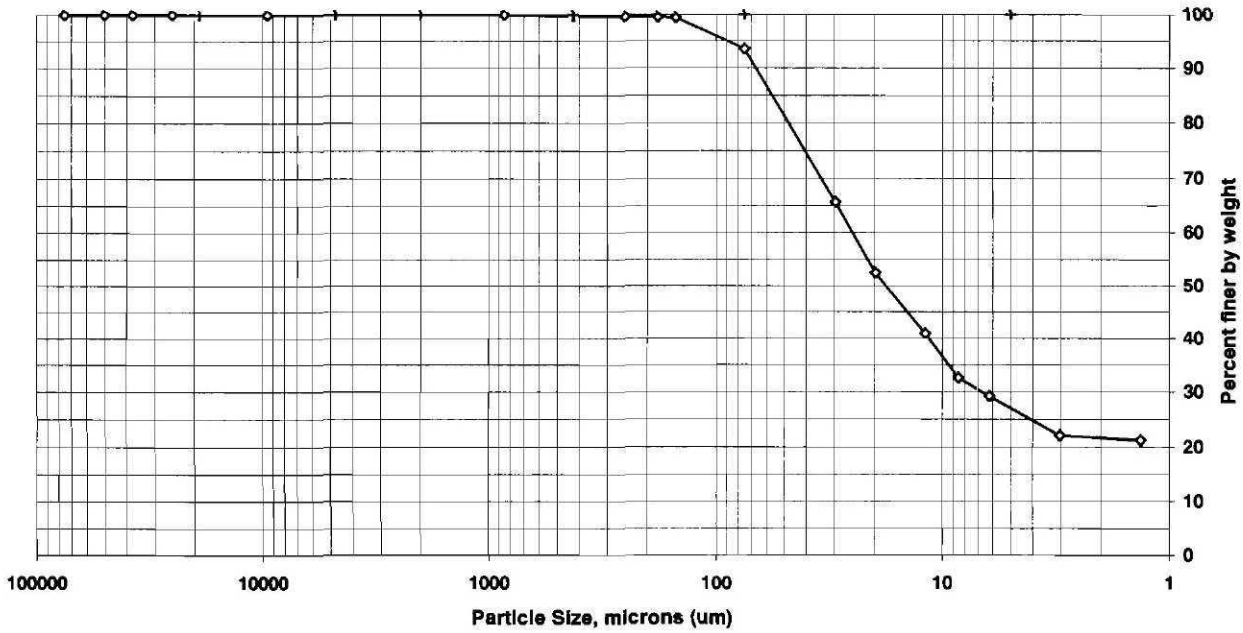
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	1.8
Coarse Sand	0.0
Medium Sand	0.2
Fine Sand	1.6
Silt	64.8
Clay	33.4

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR7-CG-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808244			**End Date:**	10/26/2009

Percent Solids:	55.1%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.7	0.2
#60	250	99.6	0.1
#80	180	99.5	0.1
#100	150	99.4	0.1
#200	75	93.5	5.9
Hydrometer	29.7	65.7	27.8
|	19.8	52.4	13.2
|	11.9	40.9	11.6
|	8.5	32.6	8.3
|	6.2	29.3	3.3
|	3.0	22.1	7.2
V	1.3	21.3	0.8

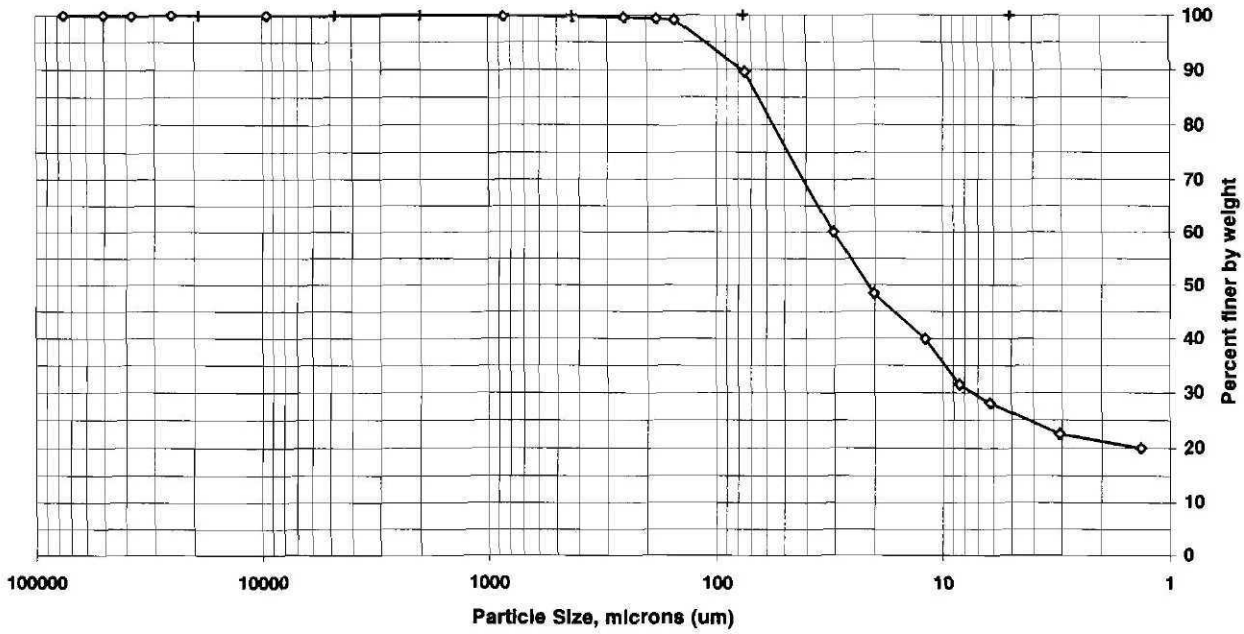
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	6.5
Coarse Sand	0.0
Medium Sand	0.3
Fine Sand	6.2
Silt	64.3
Clay	29.3

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR7-CH-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808245			**End Date:**	10/26/2009

Percent Solids:	63.7%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.6	0.3
#60	250	99.5	0.1
#80	180	99.4	0.1
#100	150	99.2	0.2
#200	75	89.6	9.7
Hydrometer	30.5	60.2	29.4
|	20.1	48.4	11.8
|	11.9	39.9	8.4
|	8.4	31.5	8.4
|	6.2	28.1	3.4
|	3.1	22.5	5.6
V	1.3	20.0	2.5

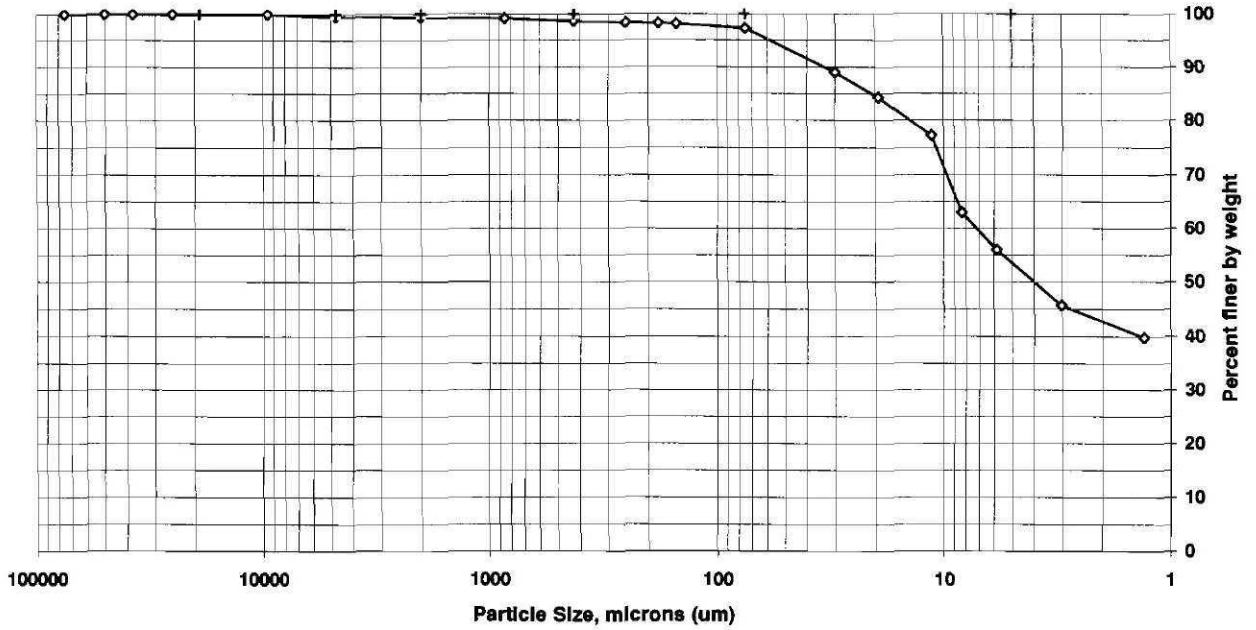
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	10.4
Coarse Sand	0.0
Medium Sand	0.4
Fine Sand	10.1
Silt	61.4
Clay	28.1

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR3-CA-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808246			**End Date:**	10/26/2009

Percent Solids:	39.4%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	9.5 mm		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	99.5	0.5
#10	2000	99.3	0.2
#20	850	99.2	0.1
#40	425	98.7	0.5
#60	250	98.4	0.3
#80	180	98.3	0.1
#100	150	98.1	0.1
#200	75	97.3	0.8
Hydrometer	30.1	89.0	8.3
|	19.3	84.3	4.7
|	11.3	77.2	7.1
|	8.3	63.0	14.2
|	5.8	55.9	7.1
|	3.0	45.7	10.2
V	1.3	39.8	5.9

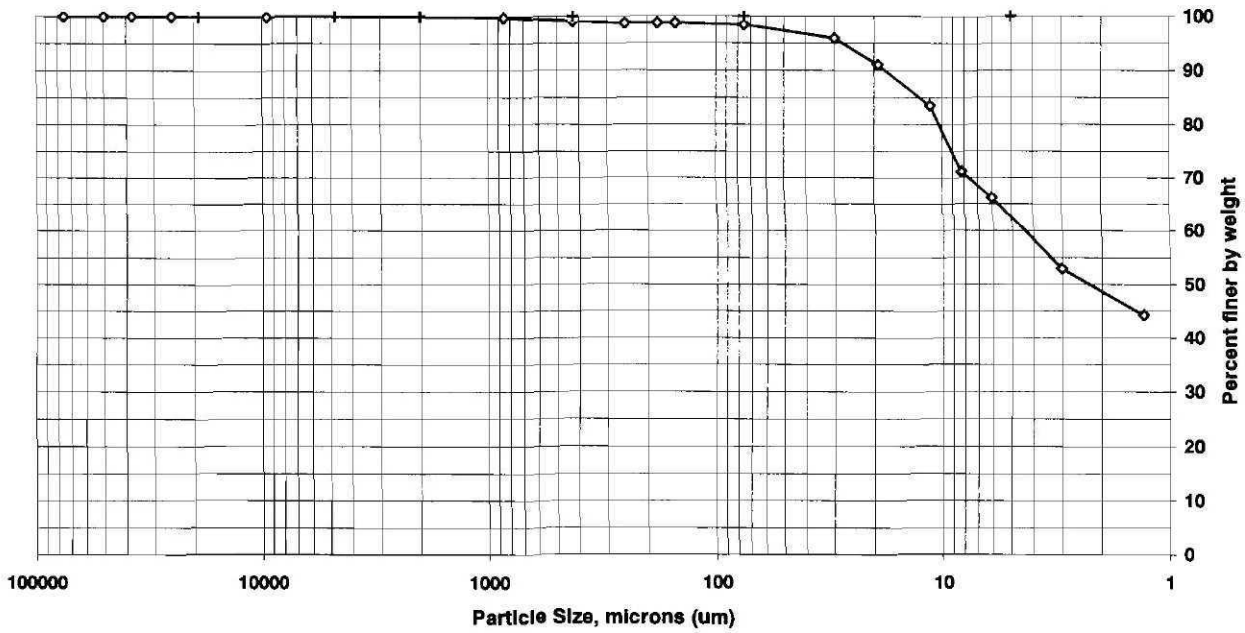
Soil Classification	Percent of Total Sample
Gravel	0.5
Sand	2.2
Coarse Sand	0.2
Medium Sand	0.6
Fine Sand	1.4
Silt	41.4
Clay	55.9

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR3-CB-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808247			**End Date:**	10/26/2009

Percent Solids:	37.2%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.9	0.1
#20	850	99.7	0.2
#40	425	99.1	0.6
#60	250	98.8	0.2
#80	180	98.8	0.1
#100	150	98.7	0.0
#200	75	98.4	0.3
Hydrometer	29.9	95.9	2.5
|	19.2	91.0	5.0
|	11.3	83.5	7.4
|	8.2	71.1	12.4
|	6.0	66.2	5.0
|	3.0	52.9	13.2
V	1.3	44.2	8.7

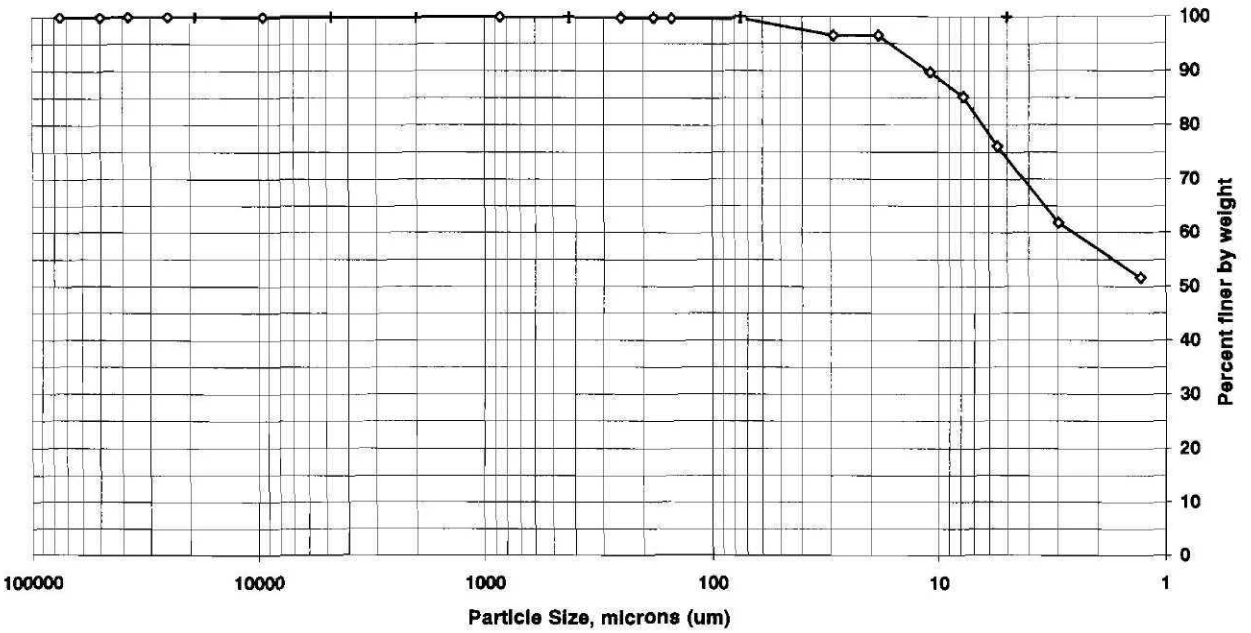
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	1.6
Coarse Sand	0.1
Medium Sand	0.8
Fine Sand	0.6
Silt	32.3
Clay	66.2

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR3-CD-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808248			**End Date:**	10/26/2009

Percent Solids:	44.6%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.8	0.1
#60	250	99.8	0.1
#80	180	99.7	0.0
#100	150	99.7	0.1
#200	75	99.6	0.1
Hydrometer	29.1	96.5	3.2
|	18.4	96.5	0.0
|	10.8	89.7	6.8
|	7.8	85.2	4.5
|	5.5	76.1	9.0
|	3.0	61.8	14.3
V	1.3	51.6	10.2

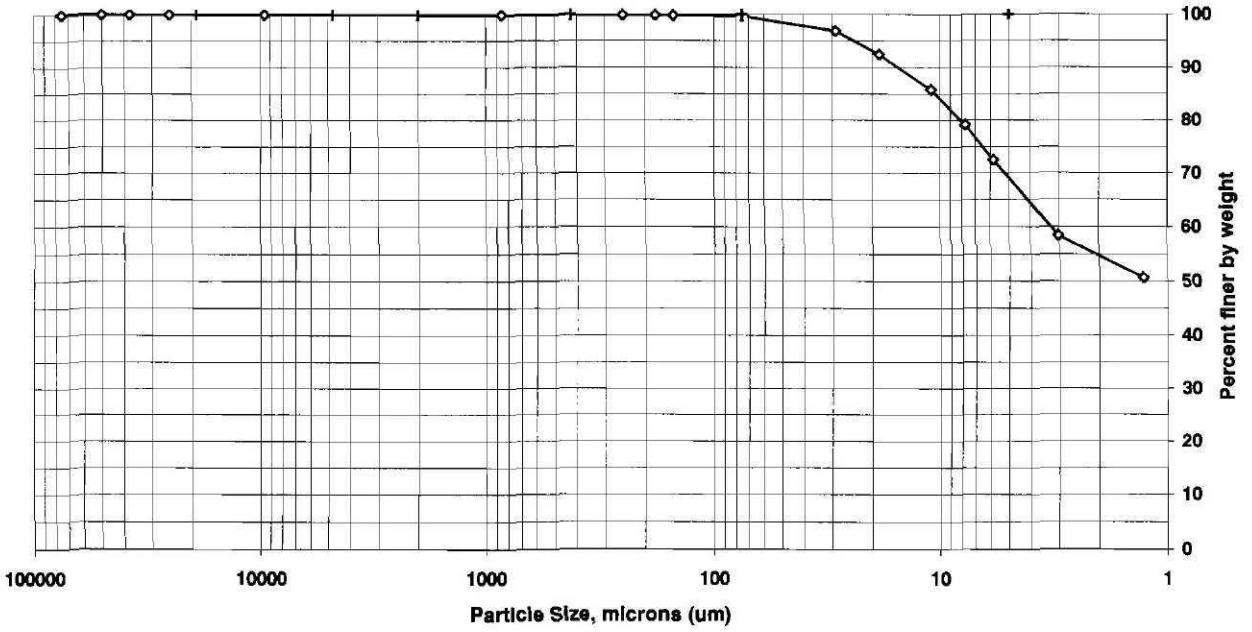
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.4
Coarse Sand	0.0
Medium Sand	0.2
Fine Sand	0.2
Silt	23.5
Clay	76.1

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR3-CE-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808249			**End Date:**	10/26/2009

Percent Solids:	48.0%		**Non-soil material:**	plant
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Crs sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.9	0.1
#20	850	99.9	0.0
#40	425	99.8	0.1
#60	250	99.8	0.0
#80	180	99.8	0.0
#100	150	99.8	0.1
#200	75	99.7	0.1
Hydrometer	28.9	96.9	2.8
|	18.5	92.4	4.4
|	10.9	85.8	6.7
|	7.7	79.1	6.7
|	5.8	72.5	6.7
|	3.0	58.4	14.0
V	1.3	50.6	7.8

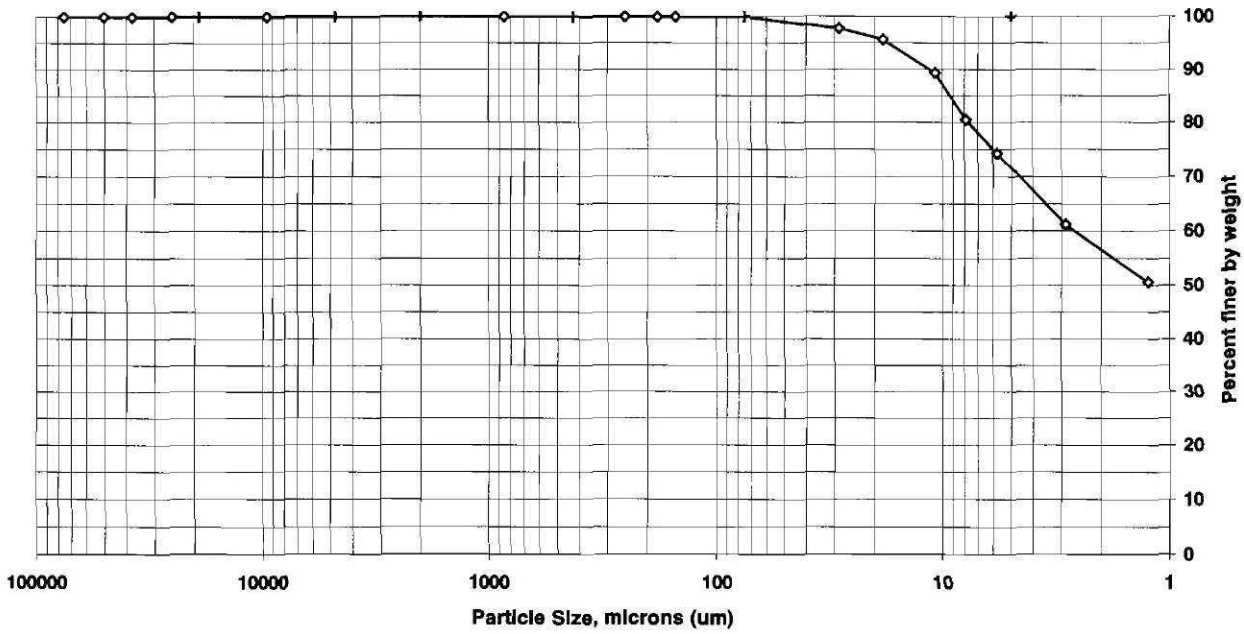
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.3
Coarse Sand	0.1
Medium Sand	0.1
Fine Sand	0.2
Silt	27.2
Clay	72.5

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR3-CF-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808250			**End Date:**	10/27/2009

Percent Solids:	47.8%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.9	0.0
#60	250	99.9	0.0
#80	180	99.9	0.0
#100	150	99.9	0.0
#200	75	99.9	0.0
Hydrometer	28.6	97.7	2.1
|	18.2	95.6	2.1
|	10.8	89.3	6.3
|	7.9	80.5	8.8
|	5.7	74.2	6.3
|	2.9	61.2	13.0
V	1.2	50.6	10.5

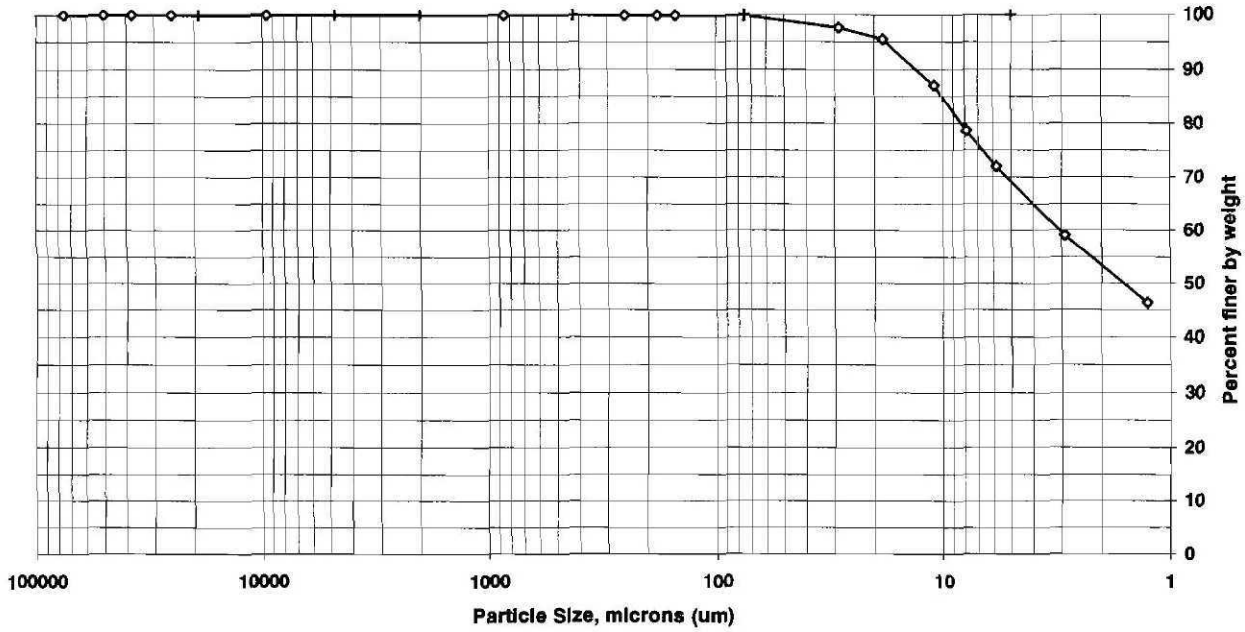
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.1
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.1
Silt	25.7
Clay	74.2

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR3-CG-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808251			**End Date:**	10/27/2009

Percent Solids:	47.8%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.9	0.0
#60	250	99.9	0.0
#80	180	99.9	0.0
#100	150	99.9	0.0
#200	75	99.8	0.1
Hydrometer	28.6	97.6	2.2
|	18.2	95.5	2.1
|	10.8	87.1	8.4
|	7.9	78.6	8.4
|	5.8	72.0	6.7
|	2.9	59.0	13.0
V	1.3	46.3	12.6

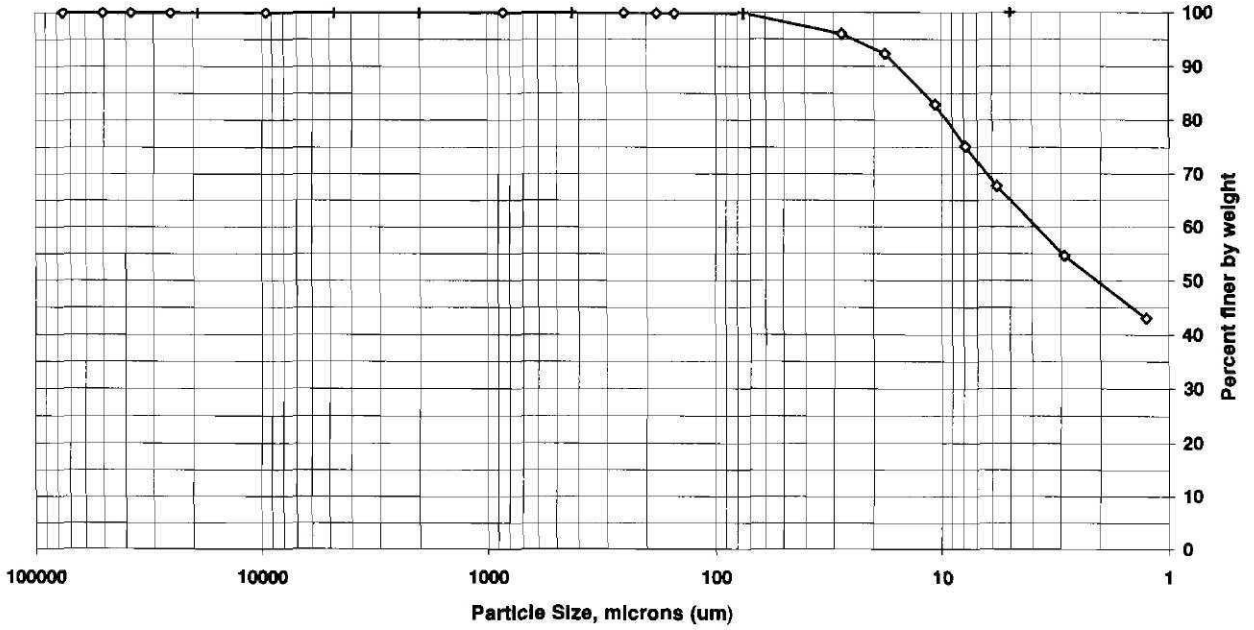
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.2
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.1
Silt	27.8
Clay	72.0

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR3-CH-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808252			**End Date:**	10/27/2009

Percent Solids:	50.9%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.9	0.1
#60	250	99.9	0.0
#80	180	99.8	0.0
#100	150	99.8	0.0
#200	75	99.7	0.1
Hydrometer	27.6	96.0	3.7
	17.7	92.3	3.7
	10.6	82.9	9.4
	7.9	75.1	7.8
	5.7	67.6	7.5
	2.9	54.5	13.1
V	1.3	43.0	11.5

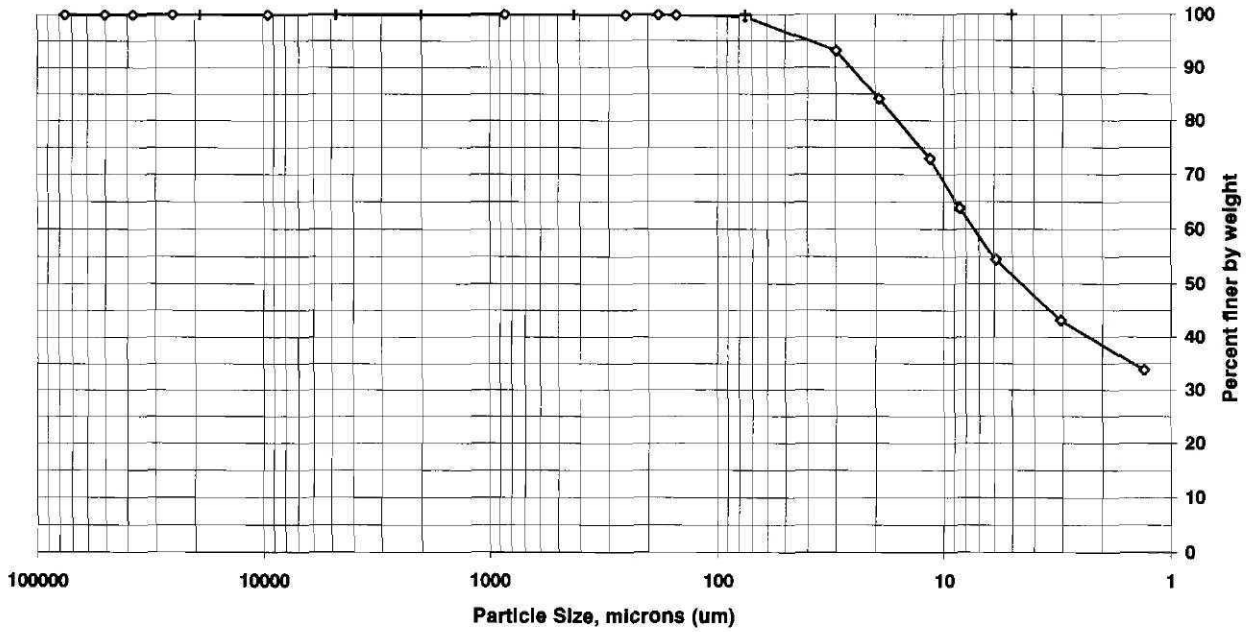
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.3
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.2
Silt	32.1
Clay	67.6

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR3-CI-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808253			**End Date:**	10/27/2009

Percent Solids:	53.7%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.9	0.1
#60	250	99.9	0.0
#80	180	99.9	0.0
#100	150	99.9	0.0
#200	75	99.6	0.3
Hydrometer	29.7	93.1	6.5
|	19.3	84.1	9.0
|	11.5	72.8	11.3
|	8.5	63.8	9.0
|	5.9	54.4	9.4
|	3.0	43.2	11.3
V	1.3	33.8	9.4

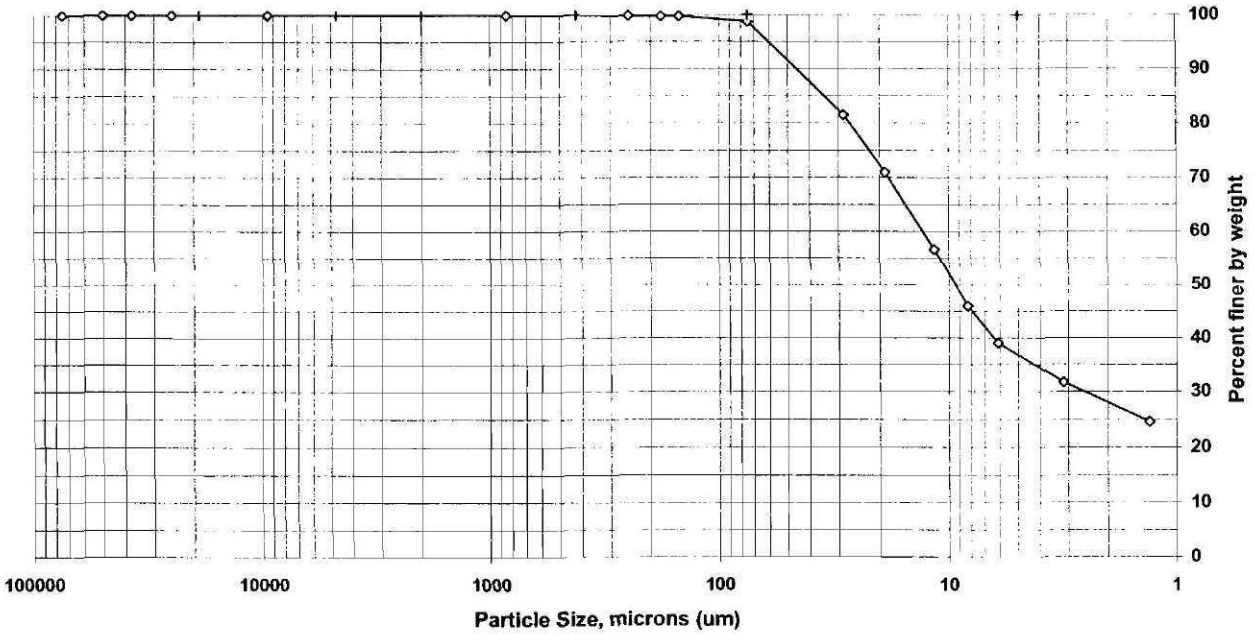
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.4
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.3
Silt	45.2
Clay	54.4

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	09/30/2009
Sample ID:	SDCR3-CJ-092709	**ETR(s):**	133873	**Start Date:**	10/06/2009
Lab ID:	808254			**End Date:**	10/27/2009

Percent Solids:	57.1%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.9	0.1
#60	250	99.8	0.1
#80	180	99.8	0.1
#100	150	99.7	0.0
#200	75	98.8	1.0
Hydrometer	28.6	81.5	17.2
I	18.9	71.0	10.6
I	11.6	56.6	14.4
I	8.3	46.0	10.6
I	6.1	39.0	7.0
I	3.1	31.7	7.3
V	1.3	24.6	7.0

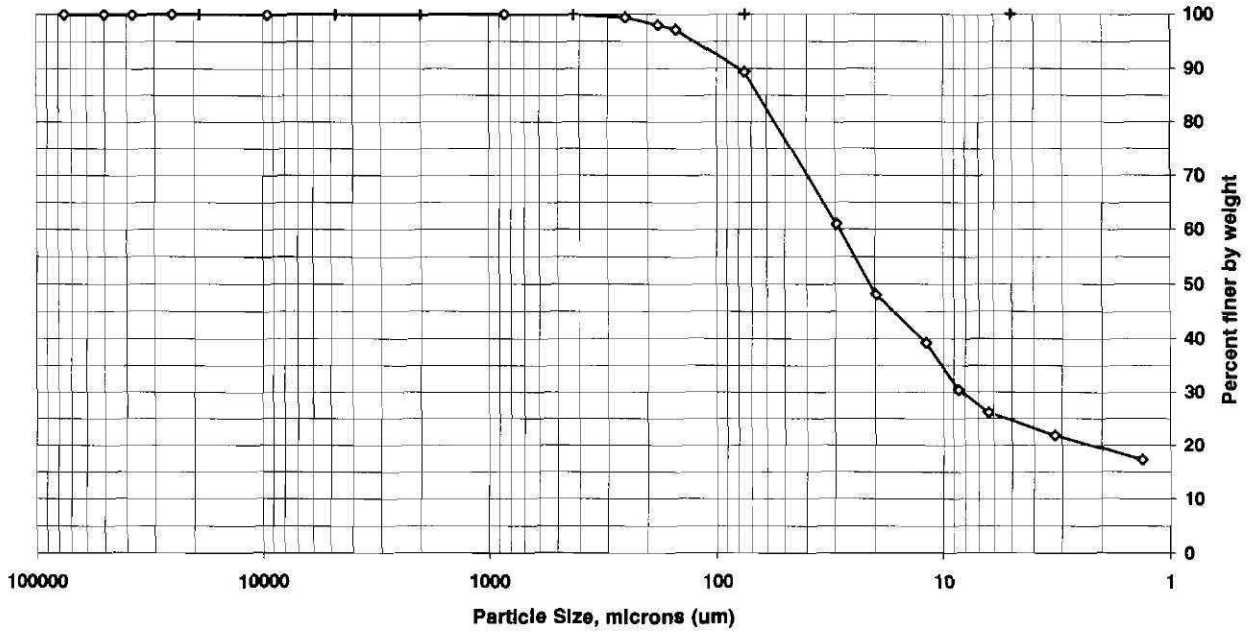
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	1.2
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	1.2
Silt	59.8
Clay	39.0

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR3-CK-092709	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808255			**End Date:**	10/27/2009

Percent Solids:	65.8%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.9	0.1
#60	250	99.4	0.5
#80	180	98.0	1.4
#100	150	97.2	0.8
#200	75	89.3	7.9
Hydrometer	29.5	61.0	28.3
|	19.8	48.1	13.0
|	11.9	39.2	8.9
|	8.6	30.5	8.7
|	6.3	26.2	4.3
|	3.2	21.9	4.3
V	1.3	17.3	4.6

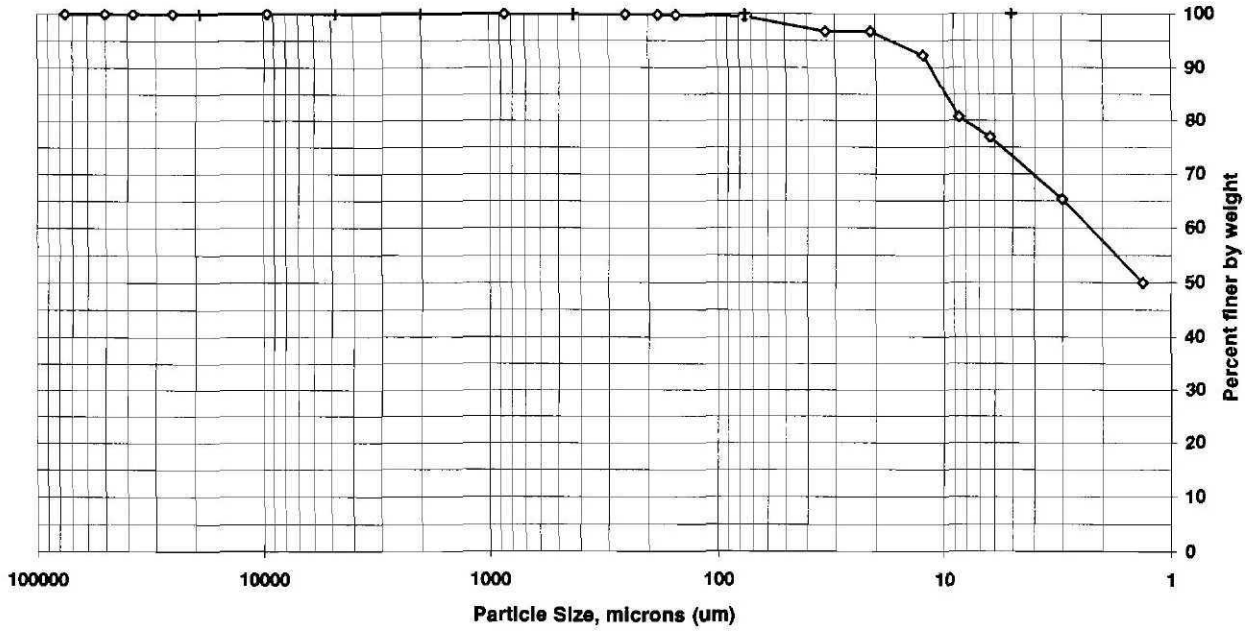
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	10.7
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	10.6
Silt	63.1
Clay	26.2

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR8-CA-092809	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808256			**End Date:**	10/27/2009

Percent Solids:	26.7%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.9	0.1
#60	250	99.9	0.0
#80	180	99.8	0.0
#100	150	99.8	0.0
#200	75	99.5	0.3
Hydrometer	33.0	96.7	2.8
I	20.8	96.7	0.0
I	12.2	92.2	4.5
I	8.6	80.7	11.5
I	6.3	76.8	3.8
I	3.0	65.3	11.5
V	1.3	49.9	15.4

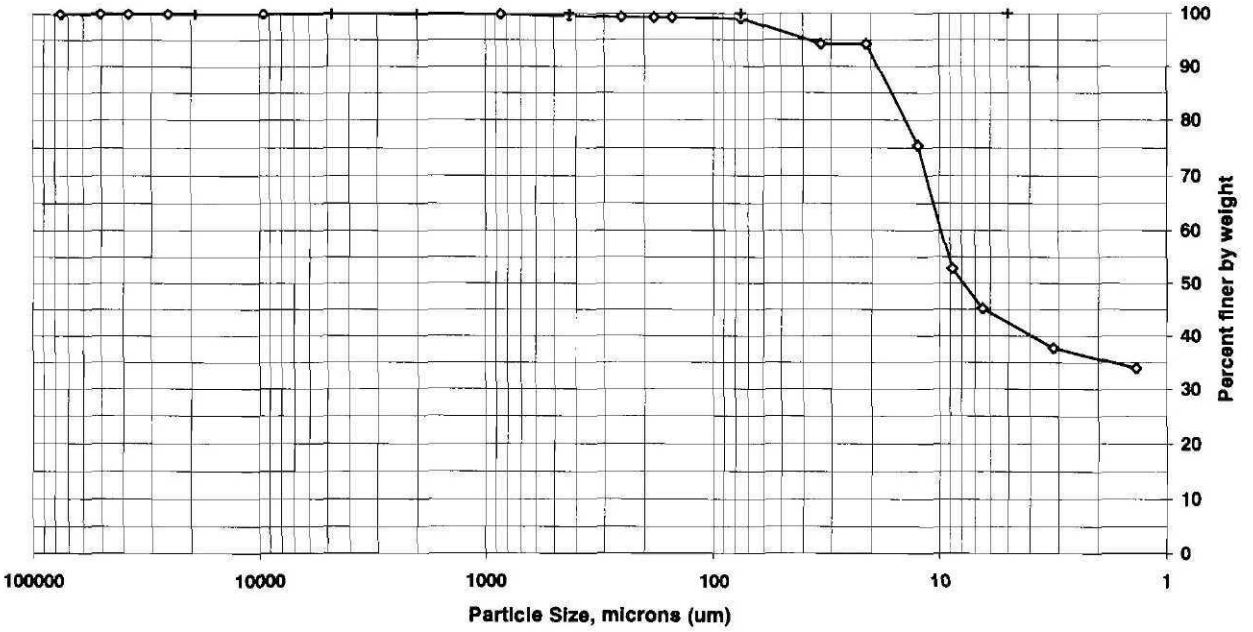
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.5
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.4
Silt	22.6
Clay	76.8

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR8-CB-092809	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808257			**End Date:**	10/27/2009

Percent Solids:	25.5%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.5	0.4
#60	250	99.3	0.2
#80	180	99.2	0.0
#100	150	99.2	0.0
#200	75	99.0	0.2
Hydrometer	33.2	94.2	4.8
|	21.0	94.2	0.0
|	12.4	75.4	18.8
|	8.8	52.8	22.6
|	6.5	45.2	7.5
|	3.1	37.7	7.5
V	1.4	33.9	3.8

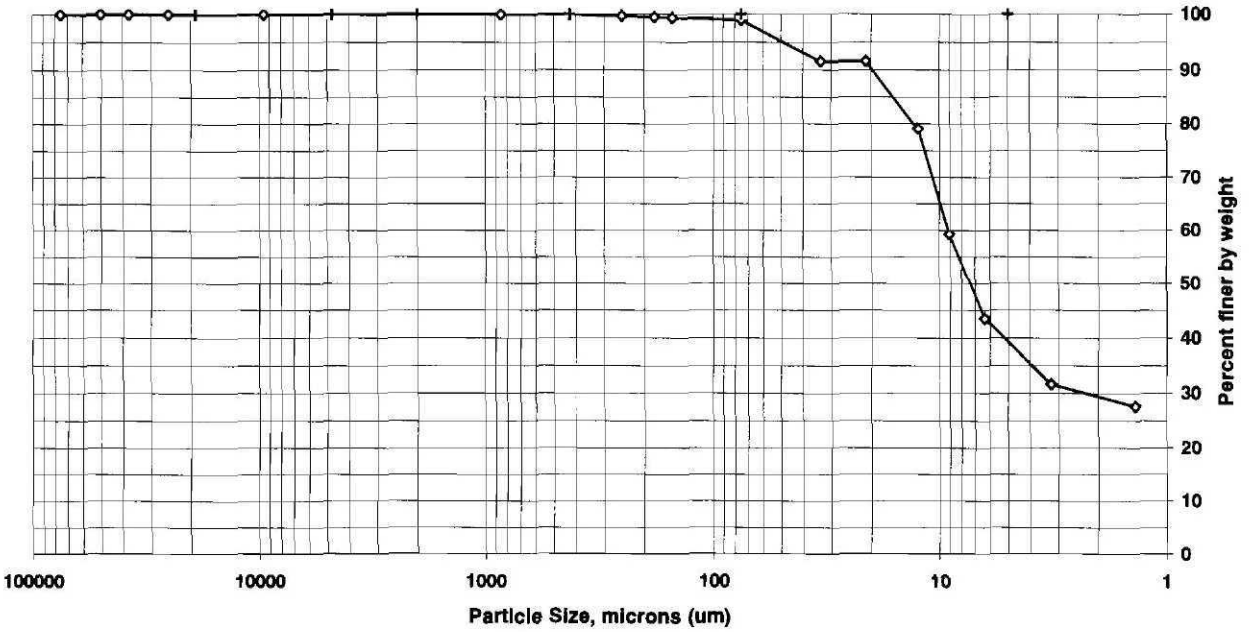
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	1.0
Coarse Sand	0.0
Medium Sand	0.5
Fine Sand	0.5
Silt	53.8
Clay	45.2

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR8-CD-092809	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808258			**End Date:**	10/27/2009

Percent Solids:	25.6%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.9	0.1
#60	250	99.7	0.2
#80	180	99.5	0.2
#100	150	99.4	0.1
#200	75	98.9	0.4
Hydrometer	33.3	91.6	7.3
	21.1	91.6	0.0
	12.4	79.1	12.5
	9.0	59.3	19.8
	6.4	43.5	15.8
	3.2	31.6	11.9
V	1.4	27.7	4.0

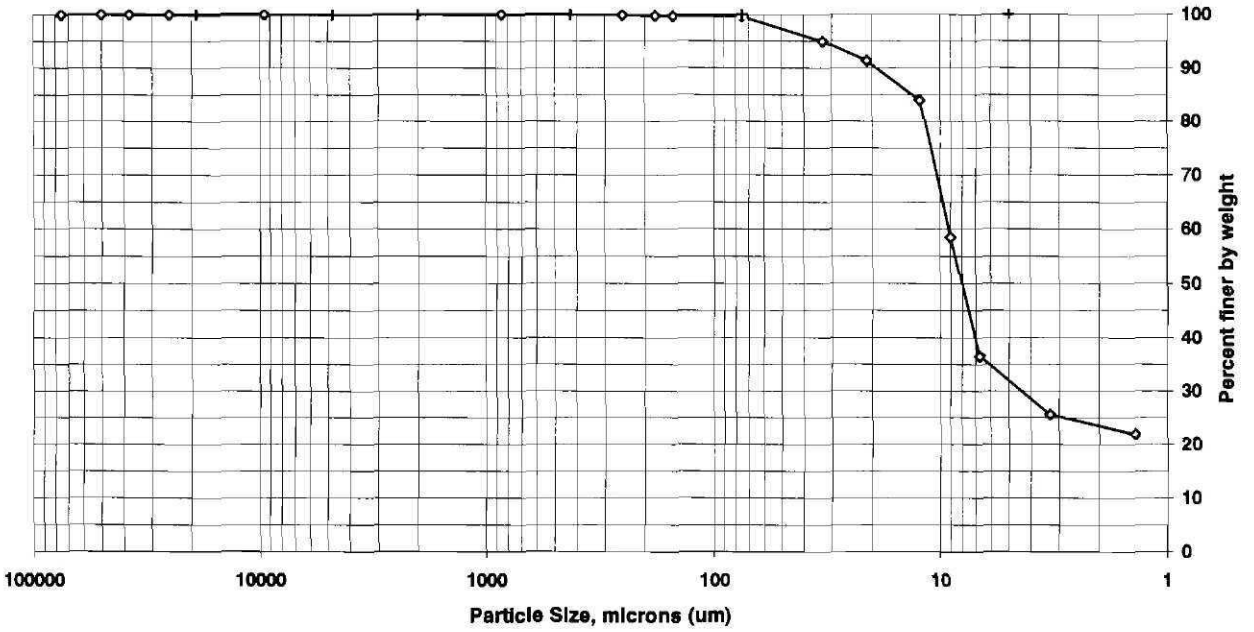
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	1.1
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.9
Silt	55.4
Clay	43.5

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR8-CE-092809	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808259			**End Date:**	10/27/2009

Percent Solids:	25.3%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	100.0	0.0
#60	250	99.9	0.1
#80	180	99.8	0.1
#100	150	99.7	0.0
#200	75	99.6	0.1
Hydrometer	33.0	95.0	4.6
|	21.0	91.3	3.7
|	12.2	84.0	7.3
|	9.0	58.4	25.6
|	6.7	36.5	21.9
|	3.3	25.6	11.0
V	1.4	21.9	3.7

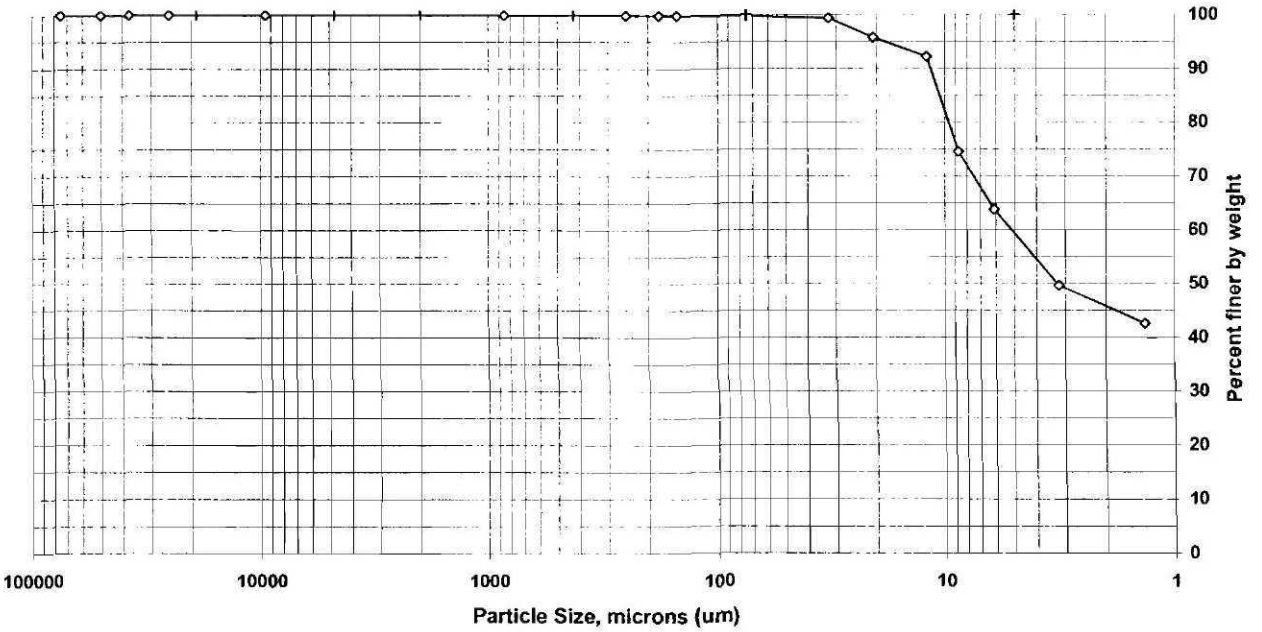
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.4
Coarse Sand	0.0
Medium Sand	0.0
Fine Sand	0.4
Silt	63.1
Clay	36.5

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	09/30/2009
Sample ID:	SDCR8-CF-092809	**ETR(s):**	133873	**Start Date:**	10/06/2009
Lab ID:	808260			**End Date:**	10/27/2009

Percent Solids:	27.5%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.9	0.0
#60	250	99.9	0.0
#80	180	99.9	0.0
#100	150	99.9	0.0
#200	75	99.7	0.2
Hydrometer	32.6	99.3	0.4
|	20.7	95.8	3.5
|	12.0	92.2	3.5
|	8.8	74.5	17.7
|	6.1	63.8	10.6
|	3.2	49.7	14.2
V	1.3	42.6	7.1

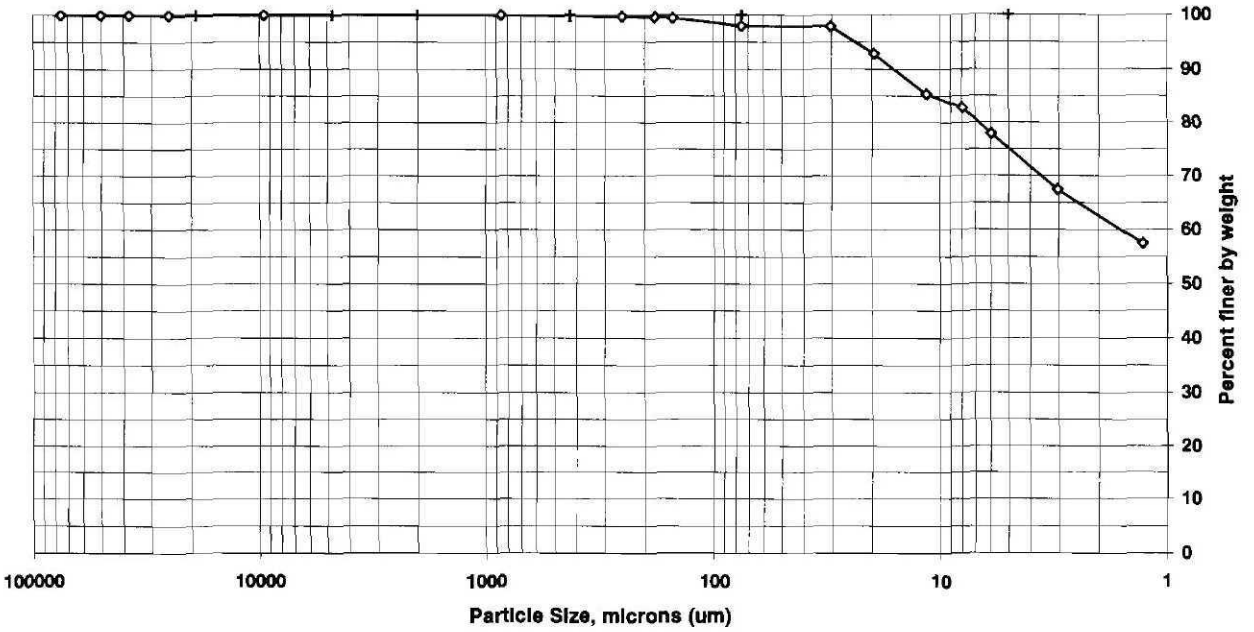
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.3
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.2
Silt	35.8
Clay	63.8

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR8-CG-092809	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808261			**End Date:**	10/27/2009

Percent Solids:	40.7%		**Non-soil material:**	na
Specific Gravity:	2.650	(assumed)	**Shape (> #10):**	na
Maximum Particle Size:	Med sand		**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.8	0.2
#60	250	99.7	0.1
#80	180	99.6	0.1
#100	150	99.4	0.2
#200	75	97.9	1.4
Hydrometer	30.3	97.8	0.1
|	19.4	92.8	5.0
|	11.4	85.3	7.5
|	8.0	82.8	2.5
|	6.0	77.8	5.0
|	3.0	67.4	10.4
V	1.3	57.4	10.0

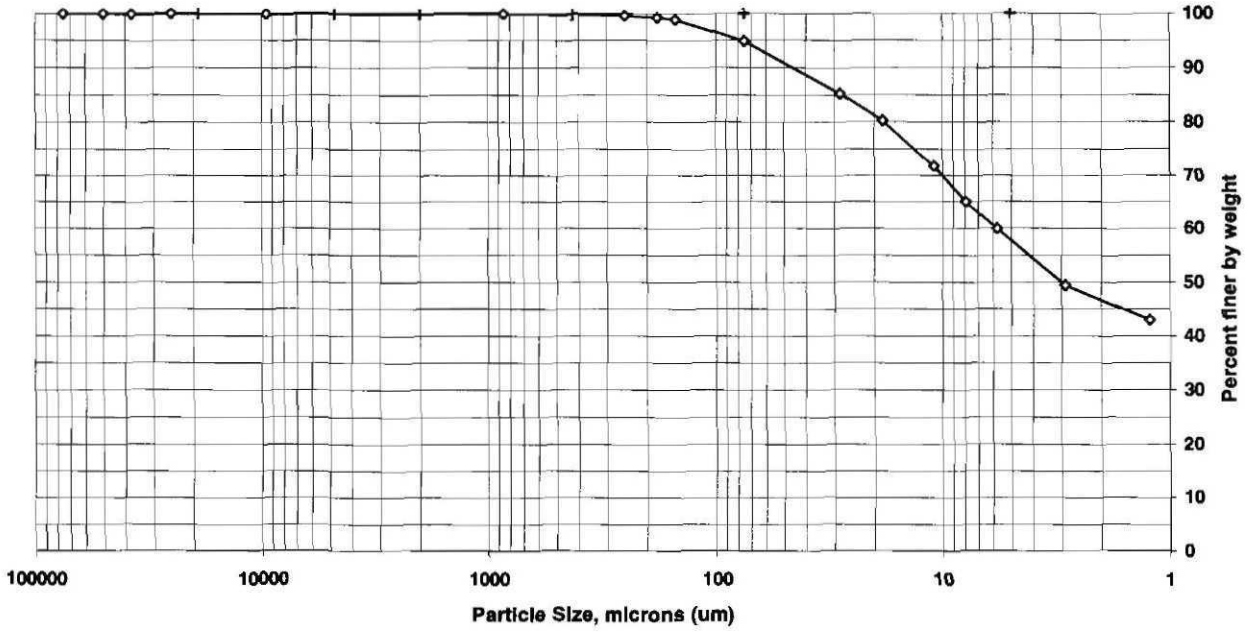
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	2.1
Coarse Sand	0.0
Medium Sand	0.2
Fine Sand	1.8
Silt	20.1
Clay	77.8

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR8-CH-092809	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808262			**End Date:**	10/27/2009

Percent Solids:	53.8%	**Non-soil material:**	na
Specific Gravity:	2.650	**Shape (> #10):**	na
Maximum Particle Size:	Med sand	**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.8	0.2
#60	250	99.6	0.2
#80	180	99.2	0.4
#100	150	98.9	0.4
#200	75	94.8	4.1
Hydrometer	28.2	85.3	9.5
|	18.2	80.2	5.1
|	10.9	71.8	8.5
|	7.9	65.0	6.8
|	5.8	59.9	5.1
|	2.9	49.4	10.5
V	1.2	42.9	6.5

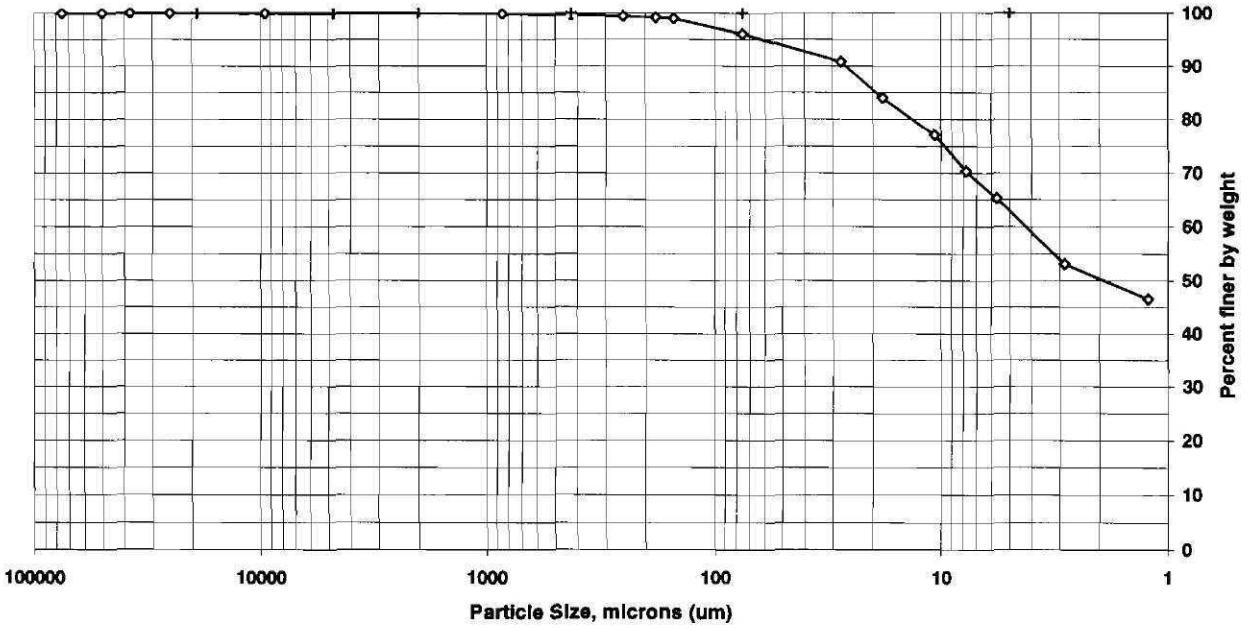
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	5.2
Coarse Sand	0.0
Medium Sand	0.2
Fine Sand	4.9
Silt	34.9
Clay	59.9

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR8-CI-092809	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808263			**End Date:**	10/27/2009

Percent Solids:	54.1%	**Non-soil material:**	na
Specific Gravity:	2.650	**Shape (> #10):**	na
Maximum Particle Size:	Med sand	**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.9	0.1
#40	425	99.6	0.3
#60	250	99.4	0.2
#80	180	99.2	0.2
#100	150	99.0	0.2
#200	75	96.0	2.9
Hydrometer	27.6	90.8	5.3
	18.0	84.0	6.8
	10.7	77.1	6.8
	7.8	70.3	6.8
	5.7	65.2	5.1
	2.8	53.0	12.2
V	1.2	46.5	6.5

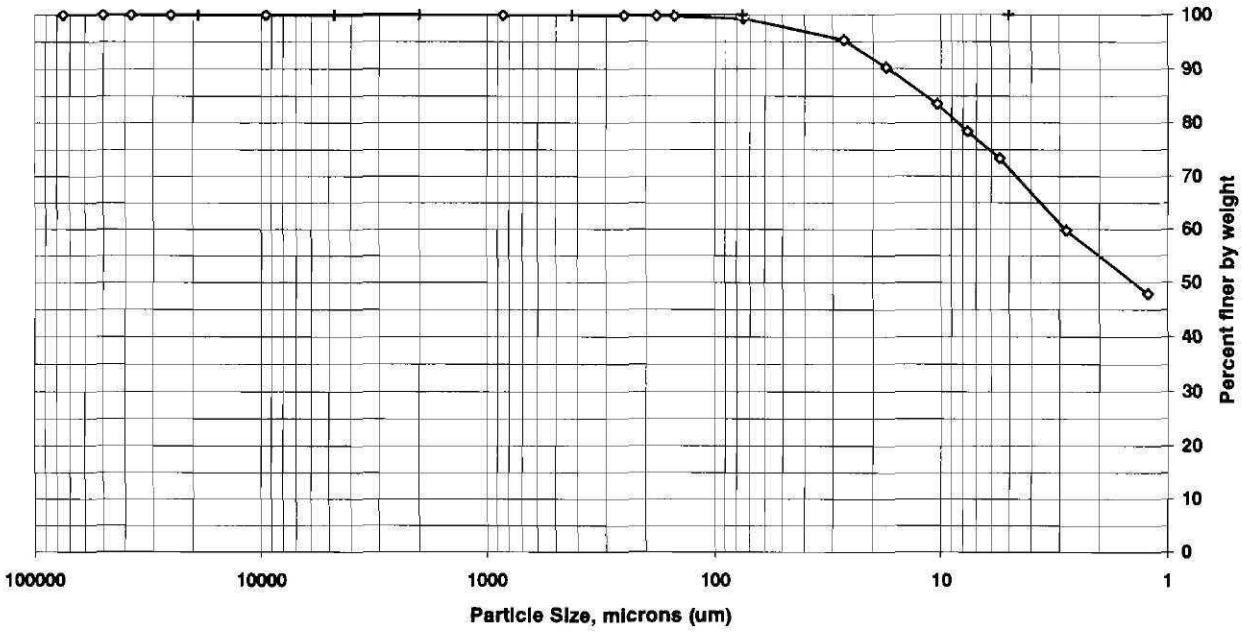
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	4.0
Coarse Sand	0.0
Medium Sand	0.4
Fine Sand	3.5
Silt	30.8
Clay	65.2

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR8-CJ-092809	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808264			**End Date:**	10/27/2009

Percent Solids:	52.2%	**Non-soil material:**	na
Specific Gravity:	2.650	**Shape (> #10):**	na
Maximum Particle Size:	Med sand	**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.9	0.1
#60	250	99.9	0.0
#80	180	99.8	0.1
#100	150	99.7	0.0
#200	75	99.3	0.4
Hydrometer	26.9	95.3	4.0
	17.4	90.2	5.1
	10.4	83.5	6.8
	7.6	78.4	5.1
	5.5	73.3	5.1
	2.8	59.8	13.5
V	1.2	47.9	11.8

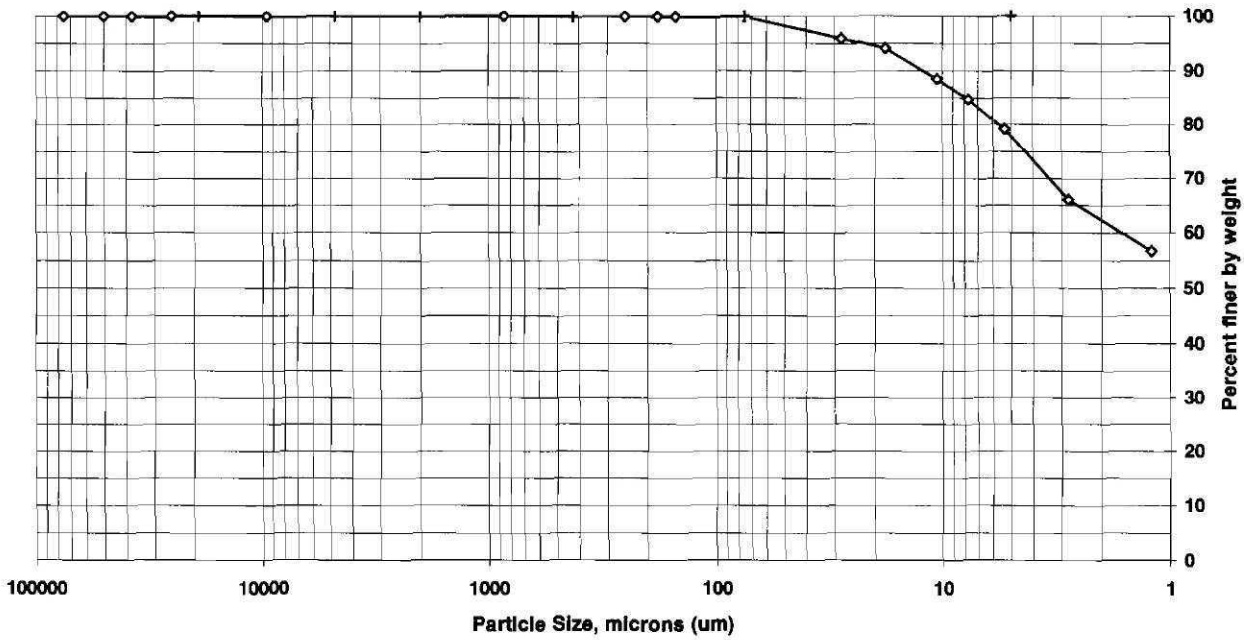
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.7
Coarse Sand	0.0
Medium Sand	0.1
Fine Sand	0.6
Silt	26.0
Clay	73.3

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041727	**Date Received:**	9/30/2009
Sample ID:	SDCR8-CK-092809	**ETR(s):**	133873	**Start Date:**	10/6/2009
Lab ID:	808265			**End Date:**	10/27/2009

Percent Solids:	51.8%	**Non-soil material:**	na
Specific Gravity:	2.650	**Shape (> #10):**	na
Maximum Particle Size:	Med sand	**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	100.0	0.0
#60	250	99.9	0.0
#80	180	99.9	0.0
#100	150	99.9	0.0
#200	75	99.8	0.0
Hydrometer	28.0	96.0	3.9
|	17.8	94.1	1.9
|	10.5	88.5	5.6
|	7.7	84.7	3.7
|	5.3	79.1	5.6
|	2.8	66.0	13.1
V	1.2	56.7	9.3

Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.2
Coarse Sand	0.0
Medium Sand	0.0
Fine Sand	0.1
Silt	20.7
Clay	79.1

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CA-092709**

Lab Sample ID: 700-41727-37

Client Matrix: Solid

% Moisture: 61.5

Date Sampled: 09/27/2009 1725

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74474		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73891		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 1947			Injection Volume:	
Date Prepared:	10/06/2009 1457			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		34	U	5.6	34
4,4'-DDE		34	U	3.1	34
4,4'-DDD		440		3.5	34
2,4'-DDT		34	U	5.6	34
2,4'-DDE		310		3.1	34
2,4'-DDD		110		3.5	34
Hexachlorobenzene		34	U	34	34

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	248	X	30 - 150
Tetrachloro-m-xylene	50		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CB-092709**

Lab Sample ID: 700-41727-38

Client Matrix: Solid

% Moisture: 62.0

Date Sampled: 09/27/2009 1623

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74474		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73891		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 2017			Injection Volume:	
Date Prepared:	10/06/2009 1457			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		35	U	5.7	35
4,4'-DDE		35	U	3.2	35
4,4'-DDD		330		3.6	35
2,4'-DDT		35	U	5.7	35
2,4'-DDE		140		3.2	35
2,4'-DDD		35	U	3.6	35
Hexachlorobenzene		35	U	35	35

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	179	X	30 - 150
Tetrachloro-m-xylene	60		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CD-092709**

Lab Sample ID: 700-41727-40

Client Matrix: Solid

% Moisture: 54.3

Date Sampled: 09/27/2009 1612

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74474		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73891		Initial Weight/Volume:	30.0 g
Dilution:	5.0			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 2048			Injection Volume:	
Date Prepared:	10/06/2009 1457			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		7.2	U	1.2	7.2
4,4'-DDE		7.2	U	0.66	7.2
4,4'-DDD		4.1	J	0.74	7.2
2,4'-DDT		7.2	U	1.2	7.2
2,4'-DDE		7.2	U	0.66	7.2
2,4'-DDD		7.2	U	0.74	7.2
Hexachlorobenzene		7.2	U	7.2	7.2

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	58		30 - 150
Tetrachloro-m-xylene	32		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CE-092709**

Lab Sample ID: 700-41727-41

Client Matrix: Solid

% Moisture: 49.3

Date Sampled: 09/27/2009 1634

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74474		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73891		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/13/2009 1821			Injection Volume:	
Date Prepared:	10/06/2009 1457			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		26	U	4.3	26
4,4'-DDE		26	U	2.4	26
4,4'-DDD		26	U	2.7	26
2,4'-DDT		26	U	4.3	26
2,4'-DDE		26	U	2.4	26
2,4'-DDD		26	U	2.7	26
Hexachlorobenzene		26	U	26	26

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	40		30 - 150
Tetrachloro-m-xylene	20	X	30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CF-092709**

Lab Sample ID: 700-41727-42

Client Matrix: Solid

% Moisture: 51.1

Date Sampled: 09/27/2009 1641

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74474		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73891		Initial Weight/Volume:	30.0 g
Dilution:	5.0			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 2119			Injection Volume:	
Date Prepared:	10/06/2009 1457			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		6.8	U	1.1	6.8
4,4'-DDE		6.8	U	0.61	6.8
4,4'-DDD		2.3	J	0.70	6.8
2,4'-DDT		6.8	U	1.1	6.8
2,4'-DDE		6.8	U	0.61	6.8
2,4'-DDD		6.8	U	0.70	6.8
Hexachlorobenzene		6.8	U	6.8	6.8

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	62		30 - 150
Tetrachloro-m-xylene	42		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CG-092709**

Lab Sample ID: 700-41727-43

Client Matrix: Solid

% Moisture: 47.1

Date Sampled: 09/27/2009 1647

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74474		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73891		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/13/2009 1923			Injection Volume:	
Date Prepared:	10/06/2009 1457			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		25	U	4.1	25
4,4'-DDE		25	U	2.3	25
4,4'-DDD		25	U	2.6	25
2,4'-DDT		25	U	4.1	25
2,4'-DDE		25	U	2.3	25
2,4'-DDD		25	U	2.6	25
Hexachlorobenzene		25	U	25	25

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	32		30 - 150
Tetrachloro-m-xylene	18	X	30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CH-092709**

Lab Sample ID: 700-41727-44

Client Matrix: Solid

% Moisture: 48.1

Date Sampled: 09/27/2009 1653

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74474		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73891		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/13/2009 1954			Injection Volume:	
Date Prepared:	10/06/2009 1457			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		25	U	4.2	25
4,4'-DDE		25	U	2.3	25
4,4'-DDD		25	U	2.6	25
2,4'-DDT		25	U	4.2	25
2,4'-DDE		25	U	2.3	25
2,4'-DDD		25	U	2.6	25
Hexachlorobenzene		25	U	25	25

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	30		30 - 150
Tetrachloro-m-xylene	18	X	30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CI-092709**

Lab Sample ID: 700-41727-45

Client Matrix: Solid

% Moisture: 44.6

Date Sampled: 09/27/2009 1659

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74474		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73891		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/13/2009 2025			Injection Volume:	
Date Prepared:	10/06/2009 1457			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		24	U	3.9	24
4,4'-DDE		24	U	2.2	24
4,4'-DDD		24	U	2.5	24
2,4'-DDT		24	U	3.9	24
2,4'-DDE		24	U	2.2	24
2,4'-DDD		24	U	2.5	24
Hexachlorobenzene		24	U	24	24

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	40		30 - 150
Tetrachloro-m-xylene	26	X	30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CJ-092709**

Lab Sample ID: 700-41727-46

Client Matrix: Solid

% Moisture: 42.6

Date Sampled: 09/27/2009 1645

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74474		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73891		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/13/2009 2056			Injection Volume:	
Date Prepared:	10/06/2009 1457			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		23	U	3.8	23
4,4'-DDE		23	U	2.1	23
4,4'-DDD		23	U	2.4	23
2,4'-DDT		23	U	3.8	23
2,4'-DDE		23	U	2.1	23
2,4'-DDD		23	U	2.4	23
Hexachlorobenzene		23	U	23	23

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	37		30 - 150
Tetrachloro-m-xylene	26	X	30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CK-092709**

Lab Sample ID: 700-41727-47

Client Matrix: Solid

% Moisture: 36.1

Date Sampled: 09/27/2009 1630

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74474		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73891		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/13/2009 2127			Injection Volume:	
Date Prepared:	10/06/2009 1457			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		21	U	3.4	21
4,4'-DDE		21	U	1.9	21
4,4'-DDD		21	U	2.1	21
2,4'-DDT		21	U	3.4	21
2,4'-DDE		21	U	1.9	21
2,4'-DDD		21	U	2.1	21
Hexachlorobenzene		21	U	21	21

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	36		30 - 150
Tetrachloro-m-xylene	23	X	30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCRDUP02-092709**

Lab Sample ID: 700-41727-48

Client Matrix: Solid

% Moisture: 61.8

Date Sampled: 09/27/2009 1200

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74474		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73891		Initial Weight/Volume:	30.0 g
Dilution:	5.0			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 2150			Injection Volume:	
Date Prepared:	10/06/2009 1457			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		5.3	J	1.4	8.6
4,4'-DDE		110		0.78	8.6
4,4'-DDD		270	E	0.89	8.6
2,4'-DDT		8.6	U	1.4	8.6
2,4'-DDE		8.6	U	0.78	8.6
2,4'-DDD		46		0.89	8.6
Hexachlorobenzene		60		8.6	8.6

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	183	X	30 - 150
Tetrachloro-m-xylene	36		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCRDUP02-092709**

Lab Sample ID: 700-41727-48

Client Matrix: Solid

% Moisture: 61.8

Date Sampled: 09/27/2009 1200

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74474		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73891		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/20/2009 2238	Run Type:	DL	Injection Volume:	
Date Prepared:	10/06/2009 1457			Result Type:	SECONDARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		380		3.6	35

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	209	X	30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CA-092809**

Lab Sample ID: 700-41727-49

Client Matrix: Solid

% Moisture: 71.2

Date Sampled: 09/28/2009 0920

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74474		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73891		Initial Weight/Volume:	30.0 g
Dilution:	50			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 2221			Injection Volume:	
Date Prepared:	10/06/2009 1457			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		110	U	19	110
4,4'-DDE		110	U	10	110
4,4'-DDD		94	J	12	110
2,4'-DDT		110	U	19	110
2,4'-DDE		110	U	10	110
2,4'-DDD		110	U	12	110
Hexachlorobenzene		110	U	110	110

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	322	X	30 - 150
Tetrachloro-m-xylene	46		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CB-092809**

Lab Sample ID: 700-41727-50

Client Matrix: Solid

% Moisture: 73.4

Date Sampled: 09/28/2009 0928

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74475		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73893		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 0059			Injection Volume:	
Date Prepared:	10/06/2009 1516			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		50	U	8.1	50
4,4'-DDE		50	U	4.5	50
4,4'-DDD		94		5.1	50
2,4'-DDT		13	J	8.1	50
2,4'-DDE		150		4.5	50
2,4'-DDD		49	J	5.1	50
Hexachlorobenzene		110		50	50

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	354	X	30 - 150
Tetrachloro-m-xylene	75		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CD-092809**

Lab Sample ID: 700-41727-52

Client Matrix: Solid

% Moisture: 73.9

Date Sampled: 09/28/2009 0936

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74475		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73893		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 0130			Injection Volume:	
Date Prepared:	10/06/2009 1516			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		51	U	8.3	51
4,4'-DDE		51	U	4.6	51
4,4'-DDD		51	U	5.2	51
2,4'-DDT		51	U	8.3	51
2,4'-DDE		230		4.6	51
2,4'-DDD		51	U	5.2	51
Hexachlorobenzene		51	U	51	51

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	318	X	30 - 150
Tetrachloro-m-xylene	46		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CE-092809**

Lab Sample ID: 700-41727-53

Client Matrix: Solid

% Moisture: 72.6

Date Sampled: 09/28/2009 0943

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74475		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73893		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 0201			Injection Volume:	
Date Prepared:	10/06/2009 1516			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		48	U	7.9	48
4,4'-DDE		580		4.4	48
4,4'-DDD		420		5.0	48
2,4'-DDT		48	U	7.9	48
2,4'-DDE		930		4.4	48
2,4'-DDD		69		5.0	48
Hexachlorobenzene		48	U	48	48

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	401	X	30 - 150
Tetrachloro-m-xylene	50		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CF-092809**

Lab Sample ID: 700-41727-54

Client Matrix: Solid

% Moisture: 72.5

Date Sampled: 09/28/2009 0951

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74475		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73893		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 0232			Injection Volume:	
Date Prepared:	10/06/2009 1516			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		48	U	7.8	48
4,4'-DDE		48	U	4.4	48
4,4'-DDD		48	U	4.9	48
2,4'-DDT		48	U	7.8	48
2,4'-DDE		1800	E	4.4	48
2,4'-DDD		48	U	4.9	48
Hexachlorobenzene		93		48	48

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	466	X	30 - 150
Tetrachloro-m-xylene	67		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CF-092809**

Lab Sample ID: 700-41727-54

Client Matrix: Solid

% Moisture: 72.5

Date Sampled: 09/28/2009 0951

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74475		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73893		Initial Weight/Volume:	30.0 g
Dilution:	50			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/14/2009 1447	Run Type:	DL	Injection Volume:	
Date Prepared:	10/06/2009 1516			Result Type:	SECONDARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4'-DDE		1500		11	120

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	408	X	30 - 150
Tetrachloro-m-xylene	58		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CG-092809**

Lab Sample ID: 700-41727-55

Client Matrix: Solid

% Moisture: 58.2

Date Sampled: 09/28/2009 0958

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74475		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73893		Initial Weight/Volume:	30.0 g
Dilution:	250			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 0303			Injection Volume:	
Date Prepared:	10/06/2009 1516			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		390	U	65	390
4,4'-DDE		2000		36	390
4,4'-DDD		390	U	41	390
2,4'-DDT		390	U	65	390
2,4'-DDE		2300		36	390
2,4'-DDD		390	U	41	390
Hexachlorobenzene		620		390	390

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	1670	X	30 - 150
Tetrachloro-m-xylene	70		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CH-092809**

Lab Sample ID: 700-41727-56

Client Matrix: Solid

% Moisture: 44.8

Date Sampled: 09/28/2009 0955

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74475		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73893		Initial Weight/Volume:	30.0 g
Dilution:	200			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 0334			Injection Volume:	
Date Prepared:	10/06/2009 1516			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		240	U	39	240
4,4'-DDE		790		22	240
4,4'-DDD		240	U	25	240
2,4'-DDT		240	U	39	240
2,4'-DDE		1100		22	240
2,4'-DDD		580		25	240
Hexachlorobenzene		510		240	240

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	2210	X	30 - 150
Tetrachloro-m-xylene	62		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CI-092809**

Lab Sample ID: 700-41727-57

Client Matrix: Solid

% Moisture: 46.4

Date Sampled: 09/28/2009 0945

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74475		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73893		Initial Weight/Volume:	30.0 g
Dilution:	200			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 0405			Injection Volume:	
Date Prepared:	10/06/2009 1516			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		250	U	40	250
4,4'-DDE		1000		22	250
4,4'-DDD		250	U	25	250
2,4'-DDT		120	J	40	250
2,4'-DDE		1600		22	250
2,4'-DDD		530		25	250
Hexachlorobenzene		290		250	250

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	2660	X	30 - 150
Tetrachloro-m-xylene	76		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CJ-092809**

Lab Sample ID: 700-41727-58

Client Matrix: Solid

% Moisture: 48.6

Date Sampled: 09/28/2009 0940

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74475		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73893		Initial Weight/Volume:	30.0 g
Dilution:	5000			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 1813			Injection Volume:	
Date Prepared:	10/06/2009 1516			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		6400	U	1100	6400
4,4'-DDE		15000		580	6400
4,4'-DDD		2200	J	660	6400
2,4'-DDT		6400	U	1100	6400
2,4'-DDE		17000		580	6400
2,4'-DDD		6400	U	660	6400
Hexachlorobenzene		6400	U	6400	6400

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	6310	X	30 - 150
Tetrachloro-m-xylene	92		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CK-092809**

Lab Sample ID: 700-41727-59

Client Matrix: Solid

% Moisture: 48.6

Date Sampled: 09/28/2009 0930

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74475		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73893		Initial Weight/Volume:	30.0 g
Dilution:	200			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 1844			Injection Volume:	
Date Prepared:	10/06/2009 1516			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		260	U	42	260
4,4'-DDE		1100		23	260
4,4'-DDD		560		26	260
2,4'-DDT		260	U	42	260
2,4'-DDE		1100		23	260
2,4'-DDD		480		26	260
Hexachlorobenzene		260	U	260	260

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	2660	X	30 - 150
Tetrachloro-m-xylene	57		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCRCDUP06-092809**

Lab Sample ID: 700-41727-60

Client Matrix: Solid

% Moisture: 75.6

Date Sampled: 09/28/2009 1200

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74475		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73893		Initial Weight/Volume:	30.0 g
Dilution:	50			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/14/2009 1856			Injection Volume:	
Date Prepared:	10/06/2009 1519			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDT		140	U	22	140
4,4'-DDE		140	U	12	140
4,4'-DDD		130	J	14	140
2,4'-DDT		140	U	22	140
2,4'-DDE		190000	E	12	140
2,4'-DDD		63000	E	14	140
Hexachlorobenzene		140	U	140	140

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	7950	E X	30 - 150
Tetrachloro-m-xylene	126		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCRCDUP06-092809**

Lab Sample ID: 700-41727-60

Client Matrix: Solid

% Moisture: 75.6

Date Sampled: 09/28/2009 1200

Date Received: 09/28/2009 1600

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74475		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73893		Initial Weight/Volume:	30.0 g
Dilution:	500			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/20/2009 2309			Injection Volume:	
Date Prepared:	10/06/2009 1519			Result Type:	SECONDARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4'-DDE		1400	U	120	1400
2,4'-DDD		1400	U	140	1400

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	326	X	30 - 150
Tetrachloro-m-xylene	43		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR4-CA-092709**

Lab Sample ID: 700-41727-1

Client Matrix: Solid

% Moisture: 70.9

Date Sampled: 09/27/2009 0914

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74239		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74127		Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	0.068 g
Date Analyzed:	10/13/2009 1402			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		23		1.4	2.0

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR4-CB-092709**

Lab Sample ID: 700-41727-2

Client Matrix: Solid

% Moisture: 71.6

Date Sampled: 09/27/2009 0920

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74239		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74127		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.063 g
Date Analyzed:	10/13/2009 1245			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		16		0.31	0.45

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR4-CC-092709**

Lab Sample ID: 700-41727-3

Client Matrix: Solid

% Moisture: 60.3

Date Sampled: 09/27/2009 0928

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74239		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74127		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.077 g
Date Analyzed:	10/13/2009 1358			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		230		3.7	5.2

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR4-CD-092709**

Lab Sample ID: 700-41727-4

Client Matrix: Solid

% Moisture: 53.9

Date Sampled: 09/27/2009 0933

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74239		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74127		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.097 g
Date Analyzed:	10/13/2009 1400			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		64		2.5	3.6

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR4-CE-092709**

Lab Sample ID: 700-41727-5

Client Matrix: Solid

% Moisture: 56.4

Date Sampled: 09/27/2009 0938

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74239		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74127		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.050 g
Date Analyzed:	10/13/2009 1208			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		17		0.26	0.37

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR4-CF-092709**

Lab Sample ID: 700-41727-6

Client Matrix: Solid

% Moisture: 54.8

Date Sampled: 09/27/2009 0946

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74239		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74127		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.080 g
Date Analyzed:	10/13/2009 1157			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		1.7		0.15	0.22

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR4-CG-092709**

Lab Sample ID: 700-41727-7

Client Matrix: Solid

% Moisture: 55.1

Date Sampled: 09/27/2009 0955

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74271		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74210		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.085 g
Date Analyzed:	10/14/2009 1329			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.69		0.15	0.21

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR4-CH-092709**

Lab Sample ID: 700-41727-8

Client Matrix: Solid

% Moisture: 54.2

Date Sampled: 09/27/2009 1003

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74271		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74210		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.080 g
Date Analyzed:	10/14/2009 1330			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.43		0.15	0.22

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR-CDUP03-092709**

Lab Sample ID: 700-41727-9

Client Matrix: Solid

% Moisture: 77.9

Date Sampled: 09/27/2009 1200

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74222		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74125		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.075 g
Date Analyzed:	10/13/2009 1031			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		19		0.34	0.48

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR5-CA-092709**

Lab Sample ID: 700-41727-10

Client Matrix: Solid

% Moisture: 76.2

Date Sampled: 09/27/2009 1057

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74271		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74210		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.074 g
Date Analyzed:	10/14/2009 1332			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		20		0.32	0.45

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR5-CB-092709**

Lab Sample ID: 700-41727-11

Client Matrix: Solid

% Moisture: 74.6

Date Sampled: 09/27/2009 1102

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74271		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74210		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.056 g
Date Analyzed:	10/14/2009 1334			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		18		0.39	0.56

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR5-CC-092709**

Lab Sample ID: 700-41727-13

Client Matrix: Solid

% Moisture: 72.8

Date Sampled: 09/27/2009 1106

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74222		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74125		Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	0.099 g
Date Analyzed:	10/13/2009 1116			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		19		1.0	1.5

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCRCDUP04-092709**

Lab Sample ID: 700-41727-14

Client Matrix: Solid

% Moisture: 72.9

Date Sampled: 09/27/2009 1200

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74271		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74210		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.095 g
Date Analyzed:	10/14/2009 1403			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		87		4.3	6.2

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR5-CD-092709**

Lab Sample ID: 700-41727-15

Client Matrix: Solid

% Moisture: 63.6

Date Sampled: 09/27/2009 1113

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74271		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74210		Lab File ID:	N/A
Dilution:	40			Initial Weight/Volume:	0.094 g
Date Analyzed:	10/14/2009 1420			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		300		6.6	9.4

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR5-CE-092709**

Lab Sample ID: 700-41727-16

Client Matrix: Solid

% Moisture: 53.0

Date Sampled: 09/27/2009 1119

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74271		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74210		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.0340 g
Date Analyzed:	10/14/2009 1407			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		96		7.0	10

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR5-CF-092709**

Lab Sample ID: 700-41727-17

Client Matrix: Solid

% Moisture: 52.0

Date Sampled: 09/27/2009 1124

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74271		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74210		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.083 g
Date Analyzed:	10/14/2009 1410			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		120		2.8	4.0

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR5-CG-092709**

Lab Sample ID: 700-41727-18

Client Matrix: Solid

% Moisture: 57.3

Date Sampled: 09/27/2009 1131

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74271		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74210		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.076 g
Date Analyzed:	10/14/2009 1345			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		9.0		0.17	0.25

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR5-CH-092709**

Lab Sample ID: 700-41727-19

Client Matrix: Solid

% Moisture: 56.7

Date Sampled: 09/27/2009 1139

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74271		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74210		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.092 g
Date Analyzed:	10/14/2009 1352			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		1.0		0.14	0.20

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR6-CA-092709**

Lab Sample ID: 700-41727-20

Client Matrix: Solid

% Moisture: 70.4

Date Sampled: 09/27/2009 1316

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74271		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74210		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.088 g
Date Analyzed:	10/14/2009 1416			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		61		4.3	6.1

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR6-CB-092709**

Lab Sample ID: 700-41727-21

Client Matrix: Solid

% Moisture: 61.9

Date Sampled: 09/27/2009 1324

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74049		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74011		Lab File ID:	N/A
Dilution:	50			Initial Weight/Volume:	0.73 g
Date Analyzed:	10/08/2009 1847			Final Weight/Volume:	40 mL
Date Prepared:	10/08/2009 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		52		1.0	1.4

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR6-CC-092709**

Lab Sample ID: 700-41727-22

Client Matrix: Solid

% Moisture: 54.1

Date Sampled: 09/27/2009 1327

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74049		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74011		Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	0.62 g
Date Analyzed:	10/08/2009 1818			Final Weight/Volume:	40 mL
Date Prepared:	10/08/2009 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		1.5		0.098	0.14

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR6-CD-092709**

Lab Sample ID: 700-41727-23

Client Matrix: Solid

% Moisture: 52.3

Date Sampled: 09/27/2009 1334

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74049		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74011		Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	0.64 g
Date Analyzed:	10/08/2009 1820			Final Weight/Volume:	40 mL
Date Prepared:	10/08/2009 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		1.7		0.092	0.13

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR6-CE-092709**

Lab Sample ID: 700-41727-24

Client Matrix: Solid

% Moisture: 52.7

Date Sampled: 09/27/2009 1341

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74049		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74011		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Date Analyzed:	10/08/2009 1725			Final Weight/Volume:	40 mL
Date Prepared:	10/08/2009 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.64		0.019	0.026

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR6-CF-092709**

Lab Sample ID: 700-41727-25

Client Matrix: Solid

% Moisture: 51.4

Date Sampled: 09/27/2009 1348

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74049		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74011		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.71 g
Date Analyzed:	10/08/2009 1727			Final Weight/Volume:	40 mL
Date Prepared:	10/08/2009 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.49		0.016	0.023

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR6-CG-092709**

Lab Sample ID: 700-41727-26

Client Matrix: Solid

% Moisture: 49.0

Date Sampled: 09/27/2009 1353

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74013		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-73761		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.74 g
Date Analyzed:	10/02/2009 1549			Final Weight/Volume:	40 mL
Date Prepared:	10/02/2009 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.060		0.015	0.021

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR6-CH-092709**

Lab Sample ID: 700-41727-27

Client Matrix: Solid

% Moisture: 51.3

Date Sampled: 09/27/2009 1358

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74013		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-73761		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Date Analyzed:	10/02/2009 1551			Final Weight/Volume:	40 mL
Date Prepared:	10/02/2009 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.073		0.019	0.026

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR7-CA-092709**

Lab Sample ID: 700-41727-28

Client Matrix: Solid

% Moisture: 64.6

Date Sampled: 09/27/2009 1450

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74271		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74210		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.098 g
Date Analyzed:	10/14/2009 1417			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		88		3.2	4.6

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR7-CB-092709**

Lab Sample ID: 700-41727-29

Client Matrix: Solid

% Moisture: 55.0

Date Sampled: 09/27/2009 1455

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74222		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74125		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.087 g
Date Analyzed:	10/13/2009 1025			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		2.6		0.14	0.20

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR7-CC-092709**

Lab Sample ID: 700-41727-30

Client Matrix: Solid

% Moisture: 51.9

Date Sampled: 09/27/2009 1500

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74271		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74210		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.099 g
Date Analyzed:	10/14/2009 1357			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.55		0.12	0.17

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR7-CD-092709**

Lab Sample ID: 700-41727-31

Client Matrix: Solid

% Moisture: 49.0

Date Sampled: 09/27/2009 1504

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74013		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-73761		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.80 g
Date Analyzed:	10/02/2009 1603			Final Weight/Volume:	40 mL
Date Prepared:	10/02/2009 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.16		0.014	0.020

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR7-CE-092709**

Lab Sample ID: 700-41727-32

Client Matrix: Solid

% Moisture: 48.5

Date Sampled: 09/27/2009 1508

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74013		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-73761		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Date Analyzed:	10/02/2009 1605			Final Weight/Volume:	40 mL
Date Prepared:	10/02/2009 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.076		0.017	0.025

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR7-CF-092709**

Lab Sample ID: 700-41727-33

Client Matrix: Solid

% Moisture: 38.5

Date Sampled: 09/27/2009 1510

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74013		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-73761		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Date Analyzed:	10/02/2009 1608			Final Weight/Volume:	40 mL
Date Prepared:	10/02/2009 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.018	J	0.014	0.020

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR7-CG-092709**

Lab Sample ID: 700-41727-34

Client Matrix: Solid

% Moisture: 34.2

Date Sampled: 09/27/2009 1504

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74013		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-73761		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Date Analyzed:	10/02/2009 1610			Final Weight/Volume:	40 mL
Date Prepared:	10/02/2009 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.063		0.013	0.018

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR7-CH-092709**

Lab Sample ID: 700-41727-35

Client Matrix: Solid

% Moisture: 35.7

Date Sampled: 09/27/2009 1458

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74013		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-73761		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.72 g
Date Analyzed:	10/02/2009 1611			Final Weight/Volume:	40 mL
Date Prepared:	10/02/2009 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.059		0.012	0.017

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCRCDUP05-092709**

Lab Sample ID: 700-41727-36

Client Matrix: Solid

% Moisture: 55.0

Date Sampled: 09/27/2009 1200

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74013		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-73761		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Date Analyzed:	10/02/2009 1613			Final Weight/Volume:	40 mL
Date Prepared:	10/02/2009 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		1.2		0.018	0.026

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CA-092709**

Lab Sample ID: 700-41727-37
Client Matrix: Solid

Date Sampled: 09/27/2009 1725
Date Received: 09/28/2009 1600

7470A SPLP Mercury-SPLP East

Method:	7470A	Analysis Batch: 700-73953		Instrument ID:	LEEMAN HYDRA
Preparation:	7470A	Prep Batch: 700-73926		Lab File ID:	N/A
Dilution:	1.0	Leachate Batch: 700-73858		Initial Weight/Volume:	5 mL
Date Analyzed:	10/07/2009 1321			Final Weight/Volume:	40 mL
Date Prepared:	10/06/2009 1500				
Date Leached:	10/05/2009 1545				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.034		0.0013	0.020

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74280		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74249		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.087 g
Date Analyzed:	10/15/2009 1047			Final Weight/Volume:	40 mL
Date Prepared:	10/14/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		76		3.3	4.8

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CC-092709**

Lab Sample ID: 700-41727-39

Client Matrix: Solid

% Moisture: 58.1

Date Sampled: 09/27/2009 1619

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74222		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74125		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.094 g
Date Analyzed:	10/13/2009 1027			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		5.2		0.14	0.20

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CD-092709**

Lab Sample ID: 700-41727-40

Client Matrix: Solid

% Moisture: 54.3

Date Sampled: 09/27/2009 1612

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74013		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-73761		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.72 g
Date Analyzed:	10/02/2009 1624			Final Weight/Volume:	40 mL
Date Prepared:	10/02/2009 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.53		0.017	0.024

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CE-092709**

Lab Sample ID: 700-41727-41

Client Matrix: Solid

% Moisture: 49.3

Date Sampled: 09/27/2009 1634

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74013		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-73761		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Date Analyzed:	10/02/2009 1625			Final Weight/Volume:	40 mL
Date Prepared:	10/02/2009 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.50		0.017	0.024

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CF-092709**

Lab Sample ID: 700-41727-42

Client Matrix: Solid

% Moisture: 51.1

Date Sampled: 09/27/2009 1641

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74013		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-73761		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Date Analyzed:	10/02/2009 1628			Final Weight/Volume:	40 mL
Date Prepared:	10/02/2009 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.13		0.017	0.024

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CG-092709**

Lab Sample ID: 700-41727-43

Client Matrix: Solid

% Moisture: 47.1

Date Sampled: 09/27/2009 1647

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74013		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-73761		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Date Analyzed:	10/02/2009 1630			Final Weight/Volume:	40 mL
Date Prepared:	10/02/2009 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.19		0.017	0.024

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CH-092709**

Lab Sample ID: 700-41727-44

Client Matrix: Solid

% Moisture: 48.1

Date Sampled: 09/27/2009 1653

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74013		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-73761		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Date Analyzed:	10/02/2009 1632			Final Weight/Volume:	40 mL
Date Prepared:	10/02/2009 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.13		0.016	0.023

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CI-092709**

Lab Sample ID: 700-41727-45

Client Matrix: Solid

% Moisture: 44.6

Date Sampled: 09/27/2009 1659

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74275		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74216		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.4070 g
Date Analyzed:	10/14/2009 1553			Final Weight/Volume:	40 mL
Date Prepared:	10/13/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.070		0.025	0.035

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CJ-092709**

Lab Sample ID: 700-41727-46

Client Matrix: Solid

% Moisture: 42.6

Date Sampled: 09/27/2009 1645

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74013		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-73761		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.80 g
Date Analyzed:	10/02/2009 1541			Final Weight/Volume:	40 mL
Date Prepared:	10/02/2009 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.074		0.012	0.017

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR3-CK-092709**

Lab Sample ID: 700-41727-47

Client Matrix: Solid

% Moisture: 36.1

Date Sampled: 09/27/2009 1630

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74280		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74249		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.099 g
Date Analyzed:	10/15/2009 1019			Final Weight/Volume:	40 mL
Date Prepared:	10/14/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.14		0.088	0.13

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CC-092809**

Lab Sample ID: 700-41727-51

Client Matrix: Solid

% Moisture: 71.5

Date Sampled: 09/28/2009 0926

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74239		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74127		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.069 g
Date Analyzed:	10/13/2009 1417			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		39		5.7	8.1

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CD-092809**

Lab Sample ID: 700-41727-52

Client Matrix: Solid

% Moisture: 73.9

Date Sampled: 09/28/2009 0936

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74222		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74125		Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	0.072 g
Date Analyzed:	10/13/2009 1118			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		24		1.5	2.1

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CE-092809**

Lab Sample ID: 700-41727-53

Client Matrix: Solid

% Moisture: 72.6

Date Sampled: 09/28/2009 0943

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74239		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74127		Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	0.0819 g
Date Analyzed:	10/13/2009 1420			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		15		1.2	1.8

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CF-092809**

Lab Sample ID: 700-41727-54

Client Matrix: Solid

% Moisture: 72.5

Date Sampled: 09/28/2009 0951

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74280		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74249		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.0782 g
Date Analyzed:	10/15/2009 1050			Final Weight/Volume:	40 mL
Date Prepared:	10/14/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		94		5.2	7.4

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CG-092809**

Lab Sample ID: 700-41727-55

Client Matrix: Solid

% Moisture: 58.2

Date Sampled: 09/28/2009 0958

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74280		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74249		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.0379 g
Date Analyzed:	10/15/2009 1056			Final Weight/Volume:	40 mL
Date Prepared:	10/14/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		440		7.1	10

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CH-092809**

Lab Sample ID: 700-41727-56

Client Matrix: Solid

% Moisture: 44.8

Date Sampled: 09/28/2009 0955

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74280		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74249		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.0755 g
Date Analyzed:	10/15/2009 1046			Final Weight/Volume:	40 mL
Date Prepared:	10/14/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		120		2.7	3.8

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CI-092809**

Lab Sample ID: 700-41727-57

Client Matrix: Solid

% Moisture: 46.4

Date Sampled: 09/28/2009 0945

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74280		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74249		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.0651 g
Date Analyzed:	10/15/2009 1058			Final Weight/Volume:	40 mL
Date Prepared:	10/14/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		120		3.2	4.6

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CJ-092809**

Lab Sample ID: 700-41727-58

Client Matrix: Solid

% Moisture: 48.6

Date Sampled: 09/28/2009 0940

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74280		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74249		Lab File ID:	N/A
Dilution:	40			Initial Weight/Volume:	0.0736 g
Date Analyzed:	10/15/2009 1110			Final Weight/Volume:	40 mL
Date Prepared:	10/14/2009 1700				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		230		5.9	8.5

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Client Sample ID: **SDCR8-CK-092809**

Lab Sample ID: 700-41727-59

Client Matrix: Solid

% Moisture: 48.6

Date Sampled: 09/28/2009 0930

Date Received: 09/28/2009 1600

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74280		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74249		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.0916 g
Date Analyzed:	10/15/2009 1106			Final Weight/Volume:	40 mL
Date Prepared:	10/15/2009 0858				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		170		2.4	3.4

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR4-CA-092709**

Lab Sample ID: 700-41727-1

Client Matrix: Solid

Date Sampled: 09/27/2009 0914

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	71		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N
Percent Solids	29		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR4-CB-092709**

Lab Sample ID: 700-41727-2

Client Matrix: Solid

Date Sampled: 09/27/2009 0920

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	72		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N
Percent Solids	28		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR4-CC-092709**

Lab Sample ID: 700-41727-3

Client Matrix: Solid

Date Sampled: 09/27/2009 0928

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	60		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N
Percent Solids	40		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR4-CD-092709**

Lab Sample ID: 700-41727-4

Client Matrix: Solid

Date Sampled: 09/27/2009 0933

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	54		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N
Percent Solids	46		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR4-CE-092709**

Lab Sample ID: 700-41727-5

Client Matrix: Solid

Date Sampled: 09/27/2009 0938

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	56		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N
Percent Solids	44		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR4-CF-092709**

Lab Sample ID: 700-41727-6

Client Matrix: Solid

Date Sampled: 09/27/2009 0946

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	55		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N
Percent Solids	45		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR4-CG-092709**

Lab Sample ID: 700-41727-7

Client Matrix: Solid

Date Sampled: 09/27/2009 0955

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	55		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N
Percent Solids	45		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR4-CH-092709**

Lab Sample ID: 700-41727-8

Client Matrix: Solid

Date Sampled: 09/27/2009 1003

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	54		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N
Percent Solids	46		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR-CDUP03-092709**

Lab Sample ID: 700-41727-9

Client Matrix: Solid

Date Sampled: 09/27/2009 1200

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	78		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N
Percent Solids	22		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR5-CA-092709**

Lab Sample ID: 700-41727-10

Client Matrix: Solid

Date Sampled: 09/27/2009 1057

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	76		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N
Percent Solids	24		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR5-CB-092709**

Lab Sample ID: 700-41727-11

Client Matrix: Solid

Date Sampled: 09/27/2009 1102

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	75		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N
Percent Solids	25		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR5-CC-092709**

Lab Sample ID: 700-41727-13

Client Matrix: Solid

Date Sampled: 09/27/2009 1106

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	73		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N
Percent Solids	27		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCRCDUP04-092709**

Lab Sample ID: 700-41727-14

Client Matrix: Solid

Date Sampled: 09/27/2009 1200

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	73		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N
Percent Solids	27		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR5-CD-092709**

Lab Sample ID: 700-41727-15

Client Matrix: Solid

Date Sampled: 09/27/2009 1113

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	64		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N
Percent Solids	36		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR5-CE-092709**

Lab Sample ID: 700-41727-16

Client Matrix: Solid

Date Sampled: 09/27/2009 1119

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	53		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N
Percent Solids	47		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73805	Date Analyzed: 10/04/2009 2145						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR5-CF-092709**

Lab Sample ID: 700-41727-17

Client Matrix: Solid

Date Sampled: 09/27/2009 1124

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	52		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N
Percent Solids	48		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR5-CG-092709**

Lab Sample ID: 700-41727-18

Client Matrix: Solid

Date Sampled: 09/27/2009 1131

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	57		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N
Percent Solids	43		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR5-CH-092709**

Lab Sample ID: 700-41727-19

Client Matrix: Solid

Date Sampled: 09/27/2009 1139

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	57		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N
Percent Solids	43		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR6-CA-092709**

Lab Sample ID: 700-41727-20

Client Matrix: Solid

Date Sampled: 09/27/2009 1316

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	70		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N
Percent Solids	30		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR6-CB-092709**

Lab Sample ID: 700-41727-21

Client Matrix: Solid

Date Sampled: 09/27/2009 1324

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	62		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N
Percent Solids	38		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR6-CC-092709**

Lab Sample ID: 700-41727-22

Client Matrix: Solid

Date Sampled: 09/27/2009 1327

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	54		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N
Percent Solids	46		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR6-CD-092709**

Lab Sample ID: 700-41727-23

Client Matrix: Solid

Date Sampled: 09/27/2009 1334

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	52		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N
Percent Solids	48		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR6-CE-092709**

Lab Sample ID: 700-41727-24

Client Matrix: Solid

Date Sampled: 09/27/2009 1341

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	53		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N
Percent Solids	47		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR6-CF-092709**

Lab Sample ID: 700-41727-25

Client Matrix: Solid

Date Sampled: 09/27/2009 1348

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	51		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N
Percent Solids	49		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR6-CG-092709**

Lab Sample ID: 700-41727-26

Client Matrix: Solid

Date Sampled: 09/27/2009 1353

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	49		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N
Percent Solids	51		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR6-CH-092709**

Lab Sample ID: 700-41727-27

Client Matrix: Solid

Date Sampled: 09/27/2009 1358

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	51		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N
Percent Solids	49		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR7-CA-092709**

Lab Sample ID: 700-41727-28

Client Matrix: Solid

Date Sampled: 09/27/2009 1450

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	65		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N
Percent Solids	35		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR7-CB-092709**

Lab Sample ID: 700-41727-29

Client Matrix: Solid

Date Sampled: 09/27/2009 1455

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	55		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N
Percent Solids	45		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR7-CC-092709**

Lab Sample ID: 700-41727-30

Client Matrix: Solid

Date Sampled: 09/27/2009 1500

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	52		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N
Percent Solids	48		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR7-CD-092709**

Lab Sample ID: 700-41727-31

Client Matrix: Solid

Date Sampled: 09/27/2009 1504

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	49		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N
Percent Solids	51		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR7-CE-092709**

Lab Sample ID: 700-41727-32

Client Matrix: Solid

Date Sampled: 09/27/2009 1508

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	48		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N
Percent Solids	52		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR7-CF-092709**

Lab Sample ID: 700-41727-33

Client Matrix: Solid

Date Sampled: 09/27/2009 1510

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	39		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N
Percent Solids	61		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR7-CG-092709**

Lab Sample ID: 700-41727-34

Client Matrix: Solid

Date Sampled: 09/27/2009 1504

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	34		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N
Percent Solids	66		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73806	Date Analyzed: 10/04/2009 2210						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR7-CH-092709**

Lab Sample ID: 700-41727-35

Client Matrix: Solid

Date Sampled: 09/27/2009 1458

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	36		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N
Percent Solids	64		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCRCDUP05-092709**

Lab Sample ID: 700-41727-36

Client Matrix: Solid

Date Sampled: 09/27/2009 1200

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	55		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N
Percent Solids	45		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR3-CA-092709**

Lab Sample ID: 700-41727-37

Client Matrix: Solid

Date Sampled: 09/27/2009 1725

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	62		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N
Percent Solids	38		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR3-CB-092709**

Lab Sample ID: 700-41727-38

Client Matrix: Solid

Date Sampled: 09/27/2009 1623

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	62		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N
Percent Solids	38		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR3-CC-092709**

Lab Sample ID: 700-41727-39

Client Matrix: Solid

Date Sampled: 09/27/2009 1619

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	58		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N
Percent Solids	42		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR3-CD-092709**

Lab Sample ID: 700-41727-40

Client Matrix: Solid

Date Sampled: 09/27/2009 1612

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	54		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N
Percent Solids	46		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR3-CE-092709**

Lab Sample ID: 700-41727-41

Client Matrix: Solid

Date Sampled: 09/27/2009 1634

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	49		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N
Percent Solids	51		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR3-CF-092709**

Lab Sample ID: 700-41727-42

Client Matrix: Solid

Date Sampled: 09/27/2009 1641

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	51		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N
Percent Solids	49		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR3-CG-092709**

Lab Sample ID: 700-41727-43

Client Matrix: Solid

Date Sampled: 09/27/2009 1647

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	47		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N
Percent Solids	53		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR3-CH-092709**

Lab Sample ID: 700-41727-44

Client Matrix: Solid

Date Sampled: 09/27/2009 1653

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	48		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N
Percent Solids	52		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR3-CI-092709**

Lab Sample ID: 700-41727-45

Client Matrix: Solid

Date Sampled: 09/27/2009 1659

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	45		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N
Percent Solids	55		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR3-CJ-092709**

Lab Sample ID: 700-41727-46

Client Matrix: Solid

Date Sampled: 09/27/2009 1645

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	43		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N
Percent Solids	57		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR3-CK-092709**

Lab Sample ID: 700-41727-47

Client Matrix: Solid

Date Sampled: 09/27/2009 1630

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	36		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N
Percent Solids	64		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCRDUP02-092709**

Lab Sample ID: 700-41727-48

Client Matrix: Solid

Date Sampled: 09/27/2009 1200

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	62		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N
Percent Solids	38		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR8-CA-092809**

Lab Sample ID: 700-41727-49

Client Matrix: Solid

Date Sampled: 09/28/2009 0920

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	71		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N
Percent Solids	29		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR8-CB-092809**

Lab Sample ID: 700-41727-50

Client Matrix: Solid

Date Sampled: 09/28/2009 0928

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	73		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N
Percent Solids	27		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR8-CC-092809**

Lab Sample ID: 700-41727-51

Client Matrix: Solid

Date Sampled: 09/28/2009 0926

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	71		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N
Percent Solids	29		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR8-CD-092809**

Lab Sample ID: 700-41727-52

Client Matrix: Solid

Date Sampled: 09/28/2009 0936

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	74		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N
Percent Solids	26		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73838	Date Analyzed: 10/04/2009 2140						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR8-CE-092809**

Lab Sample ID: 700-41727-53

Client Matrix: Solid

Date Sampled: 09/28/2009 0943

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	73		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N
Percent Solids	27		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR8-CF-092809**

Lab Sample ID: 700-41727-54

Client Matrix: Solid

Date Sampled: 09/28/2009 0951

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	72		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N
Percent Solids	28		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR8-CG-092809**

Lab Sample ID: 700-41727-55

Client Matrix: Solid

Date Sampled: 09/28/2009 0958

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	58		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N
Percent Solids	42		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR8-CH-092809**

Lab Sample ID: 700-41727-56

Client Matrix: Solid

Date Sampled: 09/28/2009 0955

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	45		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N
Percent Solids	55		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR8-CI-092809**

Lab Sample ID: 700-41727-57

Client Matrix: Solid

Date Sampled: 09/28/2009 0945

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	46		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N
Percent Solids	54		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR8-CJ-092809**

Lab Sample ID: 700-41727-58

Client Matrix: Solid

Date Sampled: 09/28/2009 0940

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	49		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N
Percent Solids	51		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCR8-CK-092809**

Lab Sample ID: 700-41727-59

Client Matrix: Solid

Date Sampled: 09/28/2009 0930

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	49		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N
Percent Solids	51		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

General Chemistry

Client Sample ID: **SDCRCDUP06-092809**

Lab Sample ID: 700-41727-60

Client Matrix: Solid

Date Sampled: 09/28/2009 1200

Date Received: 09/28/2009 1600

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	76		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N
Percent Solids	24		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73868	Date Analyzed: 10/05/2009 1615						DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Lab Section	Qualifier	Description
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate exceeds the control limits
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Method Blank - Batch: 700-73891

Method: 8081A
Preparation: 3550B

Lab Sample ID: MB 700-73891/1-A
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 10/12/2009 1234
Date Prepared: 10/06/2009 1457

Analysis Batch: 700-74474
Prep Batch: 700-73891
Units: ug/Kg

Instrument ID: SGZ
Lab File ID: Z101209.D
Initial Weight/Volume: 30.0 g
Final Weight/Volume: 5.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDT	3.3	U	0.54	3.3
4,4'-DDE	3.3	U	0.30	3.3
4,4'-DDD	3.3	U	0.34	3.3
2,4'-DDT	3.3	U	0.54	3.3
2,4'-DDE	3.3	U	0.30	3.3
2,4'-DDD	3.3	U	0.34	3.3
Hexachlorobenzene	3.3	U	3.3	3.3

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	76	30 - 150
Tetrachloro-m-xylene	48	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-73891

Method: 8081A
Preparation: 3550B

LCS Lab Sample ID:	LCS 700-73891/2-A	Analysis Batch:	700-74474	Instrument ID:	SGZ
Client Matrix:	Solid	Prep Batch:	700-73891	Lab File ID:	Z101207.D
Dilution:	5.0	Units:	ug/Kg	Initial Weight/Volume:	30.0 g
Date Analyzed:	10/12/2009 1132			Final Weight/Volume:	5.0 mL
Date Prepared:	10/06/2009 1457			Injection Volume:	
				Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 700-73891/3-A	Analysis Batch:	700-74474	Instrument ID:	SGZ
Client Matrix:	Solid	Prep Batch:	700-73891	Lab File ID:	Z101208.D
Dilution:	5.0	Units:	ug/Kg	Initial Weight/Volume:	30.0 g
Date Analyzed:	10/12/2009 1203			Final Weight/Volume:	5.0 mL
Date Prepared:	10/06/2009 1457			Injection Volume:	
				Column ID:	PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4,4'-DDT	63	66	24 - 148	3	30		
4,4'-DDE	54	51	20 - 130	5	30		
4,4'-DDD	55	56	13 - 148	1	50		
Hexachlorobenzene	45	38		15			

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	49	50	30 - 150
Tetrachloro-m-xylene	41	34	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-73891

Method: 8081A
Preparation: 3550B

MS Lab Sample ID:	700-41727-46	Analysis Batch: 700-74474	Instrument ID: SGZ
Client Matrix:	Solid	Prep Batch: 700-73891	Lab File ID: Z101325.D
Dilution:	20		Initial Weight/Volume: 30.0 g
Date Analyzed:	10/13/2009 2156		Final Weight/Volume: 5.0 mL
Date Prepared:	10/06/2009 1457		Injection Volume:
			Column ID: PRIMARY

MSD Lab Sample ID:	700-41727-46	Analysis Batch: 700-74474	Instrument ID: SGZ
Client Matrix:	Solid	Prep Batch: 700-73891	Lab File ID: Z101326.D
Dilution:	20		Initial Weight/Volume: 30.0 g
Date Analyzed:	10/13/2009 2227		Final Weight/Volume: 5.0 mL
Date Prepared:	10/06/2009 1457		Injection Volume:
			Column ID: PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4,4'-DDT	0	0	24 - 148	NC	30	U F	U F
4,4'-DDE	42	39	20 - 130	6	30	J	J
4,4'-DDD	34	30	13 - 148	11	50	J	J
Hexachlorobenzene	0	0		NC		U	U

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
DCB Decachlorobiphenyl	35		31		30 - 150
Tetrachloro-m-xylene	25	X	17	X	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Method Blank - Batch: 700-73893

Method: 8081A
Preparation: 3550B

Lab Sample ID: MB 700-73893/1-A
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 10/12/2009 1407
Date Prepared: 10/06/2009 1516

Analysis Batch: 700-74475
Prep Batch: 700-73893
Units: ug/Kg

Instrument ID: SGZ
Lab File ID: Z101212.D
Initial Weight/Volume: 30.0 g
Final Weight/Volume: 5.0 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDT	3.3	U	0.54	3.3
4,4'-DDE	3.3	U	0.30	3.3
4,4'-DDD	3.3	U	0.34	3.3
2,4'-DDT	3.3	U	0.54	3.3
2,4'-DDE	3.3	U	0.30	3.3
2,4'-DDD	3.3	U	0.34	3.3
Hexachlorobenzene	3.3	U	3.3	3.3

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	78	30 - 150
Tetrachloro-m-xylene	56	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-73893

Method: 8081A
Preparation: 3550B

LCS Lab Sample ID:	LCS 700-73893/2-A	Analysis Batch:	700-74475	Instrument ID:	SGZ
Client Matrix:	Solid	Prep Batch:	700-73893	Lab File ID:	Z101210.D
Dilution:	5.0	Units:	ug/Kg	Initial Weight/Volume:	30.0 g
Date Analyzed:	10/12/2009 1305			Final Weight/Volume:	5.0 mL
Date Prepared:	10/06/2009 1516			Injection Volume:	
				Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 700-73893/3-A	Analysis Batch:	700-74475	Instrument ID:	SGZ
Client Matrix:	Solid	Prep Batch:	700-73893	Lab File ID:	Z101211.D
Dilution:	5.0	Units:	ug/Kg	Initial Weight/Volume:	30.0 g
Date Analyzed:	10/12/2009 1336			Final Weight/Volume:	5.0 mL
Date Prepared:	10/06/2009 1516			Injection Volume:	
				Column ID:	PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4,4'-DDT	58	58	24 - 148	0	30		
4,4'-DDE	46	45	20 - 130	2	30	J	J
4,4'-DDD	50	48	13 - 148	4	50	J	J
Hexachlorobenzene	38	37		5			

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	43	42	30 - 150
Tetrachloro-m-xylene	35	34	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-73893

Method: 8081A
Preparation: 3550B

MS Lab Sample ID:	700-41727-56	Analysis Batch: 700-74475	Instrument ID: SGZ
Client Matrix:	Solid	Prep Batch: 700-73893	Lab File ID: Z101525.D
Dilution:	200		Initial Weight/Volume: 30.0 g
Date Analyzed:	10/16/2009 0538		Final Weight/Volume: 5.0 mL
Date Prepared:	10/06/2009 1516		Injection Volume:
			Column ID: PRIMARY

MSD Lab Sample ID:	700-41727-56	Analysis Batch: 700-74475	Instrument ID: SGZ
Client Matrix:	Solid	Prep Batch: 700-73893	Lab File ID: Z101526.D
Dilution:	200		Initial Weight/Volume: 30.0 g
Date Analyzed:	10/16/2009 0609		Final Weight/Volume: 5.0 mL
Date Prepared:	10/06/2009 1516		Injection Volume:
			Column ID: PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4,4'-DDT	0	NC	24 - 148	NC	30	J	U
4,4'-DDE	870	806	20 - 130	1	30	4	4
4,4'-DDD	0	NC	13 - 148	NC	50		U
Hexachlorobenzene	-631	375		66		4	4

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
DCB Decachlorobiphenyl	2250	X	2580	X	30 - 150
Tetrachloro-m-xylene	67		77		30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

TCLP SPLPE Leachate Blank - Batch: 700-73926

Method: 7470A
Preparation: 7470A
SPLP East

Lab Sample ID: LB 700-73858/1-B
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/07/2009 1309
Date Prepared: 10/06/2009 1500
Date Leached: 10/05/2009 1545

Analysis Batch: 700-73953
Prep Batch: 700-73926
Units: mg/L

Leachate Batch: 700-73858

Instrument ID: LEEMAN HYDRA AA HG4024
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.0013	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-73926

Method: 7470A
Preparation: 7470A

LCS Lab Sample ID: LCS 700-73926/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/07/2009 1311
Date Prepared: 10/06/2009 1500

Analysis Batch: 700-73953
Prep Batch: 700-73926
Units: mg/L

Instrument ID: LEEMAN HYDRA AA HG4024
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-73926/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/07/2009 1313
Date Prepared: 10/06/2009 1500

Analysis Batch: 700-73953
Prep Batch: 700-73926
Units: mg/L

Instrument ID: LEEMAN HYDRA AA HG40
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	95	95	80 - 120	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Method Blank - Batch: 700-73761

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-73761/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/02/2009 1536
Date Prepared: 10/02/2009 1130

Analysis Batch: 700-74013
Prep Batch: 700-73761
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4024
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-73761

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-73761/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/02/2009 1538
Date Prepared: 10/02/2009 1130

Analysis Batch: 700-74013
Prep Batch: 700-73761
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4024
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-73761/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/02/2009 1539
Date Prepared: 10/02/2009 1130

Analysis Batch: 700-74013
Prep Batch: 700-73761
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG40
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	118	120	80 - 120	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-73761

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	700-41727-46	Analysis Batch: 700-74013	Instrument ID: LEEMAN HYDRA AA
Client Matrix:	Solid	Prep Batch: 700-73761	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.80 g
Date Analyzed:	10/02/2009 1543		Final Weight/Volume: 40 mL
Date Prepared:	10/02/2009 1130		

MSD Lab Sample ID:	700-41727-46	Analysis Batch: 700-74013	Instrument ID: LEEMAN HYDRA AA HG4024
Client Matrix:	Solid	Prep Batch: 700-73761	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.79 g
Date Analyzed:	10/02/2009 1545		Final Weight/Volume: 40 mL
Date Prepared:	10/02/2009 1130		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	109	115	80 - 120	6	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Method Blank - Batch: 700-74011

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74011/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2009 1630
Date Prepared: 10/08/2009 1200

Analysis Batch: 700-74049
Prep Batch: 700-74011
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4024
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74011

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-74011/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2009 1632
Date Prepared: 10/08/2009 1200

Analysis Batch: 700-74049
Prep Batch: 700-74011
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4024
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-74011/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2009 1633
Date Prepared: 10/08/2009 1200

Analysis Batch: 700-74049
Prep Batch: 700-74011
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG40
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	94	93	80 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Method Blank - Batch: 700-74125

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74125/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1002
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74222
Prep Batch: 700-74125
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4024
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74125

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-74125/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1004
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74222
Prep Batch: 700-74125
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4024
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-74125/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1005
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74222
Prep Batch: 700-74125
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG40:
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	91	92	80 - 120	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Method Blank - Batch: 700-74127

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74127/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1152
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74239
Prep Batch: 700-74127
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4024
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74127

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-74127/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1154
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74239
Prep Batch: 700-74127
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4024
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-74127/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1155
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74239
Prep Batch: 700-74127
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG40:
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	96	97	80 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-74127

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	700-41727-6	Analysis Batch: 700-74239	Instrument ID: LEEMAN HYDRA AA
Client Matrix:	Solid	Prep Batch: 700-74127	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.076 g
Date Analyzed:	10/13/2009 1200		Final Weight/Volume: 40 mL
Date Prepared:	10/12/2009 1800		

MSD Lab Sample ID:	700-41727-6	Analysis Batch: 700-74239	Instrument ID: LEEMAN HYDRA AA HG4024
Client Matrix:	Solid	Prep Batch: 700-74127	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.075 g
Date Analyzed:	10/13/2009 1201		Final Weight/Volume: 40 mL
Date Prepared:	10/12/2009 1800		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	98	111	80 - 120	9	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Method Blank - Batch: 700-74210

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74210/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/14/2009 1304
Date Prepared: 10/13/2009 1400

Analysis Batch: 700-74271
Prep Batch: 700-74210
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4024
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74210

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-74210/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/14/2009 1306
Date Prepared: 10/13/2009 1400

Analysis Batch: 700-74271
Prep Batch: 700-74210
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4024
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-74210/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/14/2009 1308
Date Prepared: 10/13/2009 1400

Analysis Batch: 700-74271
Prep Batch: 700-74210
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG40
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	86	88	80 - 120	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74216

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID:	LCS 700-74216/2-A	Analysis Batch: 700-74275	Instrument ID: LEEMAN HYDRA AA HG402
Client Matrix:	Solid	Prep Batch: 700-74216	Lab File ID: N/A
Dilution:	1.0	Units: mg/Kg	Initial Weight/Volume: 0.40 g
Date Analyzed:	10/14/2009 1504		Final Weight/Volume: 40 mL
Date Prepared:	10/13/2009 1700		

LCSD Lab Sample ID:	LCSD 700-74216/3-A	Analysis Batch: 700-74275	Instrument ID: LEEMAN HYDRA AA HG40
Client Matrix:	Solid	Prep Batch: 700-74216	Lab File ID: N/A
Dilution:	1.0	Units: mg/Kg	Initial Weight/Volume: 0.40 g
Date Analyzed:	10/14/2009 1505		Final Weight/Volume: 40 mL
Date Prepared:	10/13/2009 1700		

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	90	91	80 - 120	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Method Blank - Batch: 700-74249

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74249/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/15/2009 1003
Date Prepared: 10/14/2009 1700

Analysis Batch: 700-74280
Prep Batch: 700-74249
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4024
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74249

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-74249/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/15/2009 1004
Date Prepared: 10/14/2009 1700

Analysis Batch: 700-74280
Prep Batch: 700-74249
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4024
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-74249/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/15/2009 1006
Date Prepared: 10/14/2009 1700

Analysis Batch: 700-74280
Prep Batch: 700-74249
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG40
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	91	88	80 - 120	3	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41727-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-74249

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	700-41727-56	Analysis Batch: 700-74280	Instrument ID: LEEMAN HYDRA AA
Client Matrix:	Solid	Prep Batch: 700-74249	Lab File ID: N/A
Dilution:	20		Initial Weight/Volume: 0.0758 g
Date Analyzed:	10/15/2009 1540		Final Weight/Volume: 40 mL
Date Prepared:	10/14/2009 1700		

MSD Lab Sample ID:	700-41727-56	Analysis Batch: 700-74280	Instrument ID: LEEMAN HYDRA AA HG4024
Client Matrix:	Solid	Prep Batch: 700-74249	Lab File ID: N/A
Dilution:	20		Initial Weight/Volume: 0.0758 g
Date Analyzed:	10/15/2009 1542		Final Weight/Volume: 40 mL
Date Prepared:	10/14/2009 1700		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	-599	-432	80 - 120	4	20	4	4

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number

TestAmerica
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Phone:
Fax:

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Olin Heritage OHZ	PROJECT NO.: 610709 8036	PROJECT LOCATION (STATE): AL	PAGE 1 OF 6
(LAB) PROJECT MANAGER: Charles Newton	P. O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY ●
CLIENT (SITE) PM: Keith Roberts	CLIENT PHONE: 423.336.4388	CLIENT FAX: 423.336.4166	DATE DUE
CLIENT NAME: Olin Corporation	CLIENT EMAIL: kdroberts@olin.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS: 3855 N. Ocoee St. Cleveland TN 37312			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable): MACTEC	SAMPLER'S SIGNATURE:		NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT...)

REQUIRED ANALYSES: Tetra (7471); Dioxin (SW 8290); Organics (8260B); HCB (8270C); DDTR (8081A)

PRESERVATIVE: ice, ice, ice, ice, ice

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID	Tetra (7471)	Dioxin (SW 8290)	Organics (8260B)	HCB (8270C)	DDTR (8081A)	REMARKS
9/27/09	9:14	SDCR4-CA-092709	G		X			X	X	X			
9/27/09	9:20	SDCR4-CB-092709	G		X			X	X	X			
9/27/09	9:28	SDCR4-CC-092709	G		X			X	X	X			
9/27/09	9:33	SDCR4-CD-092709	G		X			X	X	X			
9/27/09	9:38	SDCR4-CE-092709	G		X			X	X	X			
9/27/09	9:46	SDCR4-CF-092709	G		X			X	X	X			
9/27/09	9:55	SDCR4-CG-092709	G		X			X	X	X			
9/27/09	10:03	SDCR4-CH-092709	G		X			X	X	X			
9/27/09	10:12	SDCR4-CF-092709 (MS/MSD)	G		X			X					
9/27/09	12:00	SDCR-CDUP03-092709	G		X			X					
9/27/09	10:57	SDCR5-CA-092709	G		X			X	X	X			
9/27/09	11:02	SDCR5-CB-092709	G		X			X	X	X			

Page 25 of 27

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	9/28/09	1600		9/28/09				
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
	9/28/09	1600						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
	9/28/09	1600	YES ○ NO ○	700	41727	25 38 23 34 36 39

Original - Return to Laboratory with Sample(s)

LTA 014

10/29/2009

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Alternate Laboratory Name/Location:
Phone:
Fax:

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Olin McIntosh OU2	PROJECT NO.: 61070900036	PROJECT LOCATION (STATE): AL
(LAB) PROJECT MANAGER: Charles Newton	P. O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: Keith Roberts	CLIENT PHONE: 423.336.4388	CLIENT FAX: 423.336.4166
CLIENT NAME: Olin Corporation	CLIENT EMAIL: kdroberts@olin.com	
CLIENT ADDRESS: 3855 N. Ocoee St. Cleveland TN 37312		
COMPANY CONTRACTING THIS WORK (if applicable): MACTEC	SAMPLER'S SIGNATURE: [signature]	

PAGE 2 OF 6

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: ice ice ice ice ice

REQUIRED ANALYSES: Thg (7471), Density (SM 2710C), Grain Size (ASTM D422), 8081A HCB (8270E), DDTR (8081A)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	Thg (7471)	Density (SM 2710C)	Grain Size (ASTM D422)	8081A HCB (8270E)	DDTR (8081A)	REMARKS
9/27/09	11:06	SDCR5-CC-092709	G	X				X	X	X			
9/27/09	~~11:34~~ 12:00	~~SDCR5-CC-092709~~ SDCR-DUP04-092709	G	X				X					
9/27/09	~~11:14~~ 11:13	SDCR5-CD-092709	G	X				X	X	X			
9/27/09	~~11:24~~ 11:19	SDCR5-CE-092709	G	X				X	X	X			
9/27/09	11:24	SDCR5-CF-092709	G	X				X	X	X			
9/27/09	11:31	SDCR5-CG-092709	G	X				X	X	X			
9/27/09	11:39	SDCR5-CH-092709	G	X				X	X	X			
9/27/09	13:16	SDCR6-CA-092709	G	X				X	X	X			
9/27/09	13:24	SDCR6-CB-092709	G	X				X	X	X			
9/27/09	13:27	SDCR6-CC-092709	G	X				X	X	X			
9/27/09	13:34	SDCR6-CD-092709	G	X				X	X	X			
9/27/09	13:41	SDCR6-CE-092709	G	X				X	X	X			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9/28/09	1600	[signature]	9/28/09				
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]	9/28/09	1600						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
[signature]	28/09	16:00		700	41721	25 38 23 34 36 39

Original - Return to Laboratory with Sample(s)

LIA 014

Page 293 of 297

10/29/2009

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Alternate Laboratory Name/Location:
Phone:
Fax:

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Olin McIntosh Qtr	PROJECT NO.: 61070908036	PROJECT LOCATION (STATE): AL
(LAB) PROJECT MANAGER: Charles Newton	P. O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: Keith Roberts	CLIENT PHONE: 423.336.4388	CLIENT FAX: 423.336.4166
CLIENT NAME: Olin Corporation	CLIENT EMAIL: kdroberts@olin.com	
CLIENT ADDRESS: 3855 N. Ocoee St. Cleveland TN 37312		
COMPANY CONTRACTING THIS WORK (if applicable): MACTEC	SAMPLER'S SIGNATURE: [signature]	

PAGE 3 OF 6

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	THg (7471)	Density (SM 2710C)	Grain size (ASTM D422)	8081B HCB (8270C)	DDTR (8081A)	REMARKS
								ice	ice	ice	ice	ice	
								PRESERVATIVE					
								NUMBER OF CONTAINERS SUBMITTED					
9/27/09	~~14:38~~ 13:40	SDCR6-CF-092709	G	X				X	X	X			
9/27/09	13:53	SDCR6-CG-092709	G	X				X	X	X			
9/27/09	13:58	SDCR6-CH-092709	G	X				X	X	X			
9/27/09	14:50	SDCR7-CA-092709	G	X				X	X	X			
9/27/09	14:55	SDCR7-CB-092709	G	X				X	X	X			
9/27/09	15:00	SDCR7-CC-092709	G	X				X	X	X			
9/27/09	15:04	SDCR7-CD-092709	G	X				X	X	X			
9/27/09	15:08	SDCR7-CE-092709	G	X				X	X	X			
9/27/09	15:10	SDCR7-CF-092709	G	X				X	X	X			
9/27/09	15:04	SDCR7-CG-092709	G	X				X	X	X			
9/27/09	14:58	SDCR7-CH-092709	G	X				X	X	X			
9/27/09	12:00	~~SDCR7-C~~ SDCR-CDUP ~~05-092709~~	G	X				X					

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9/28/09	1600	[signature]	9/28/09				

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]	9/28/09	1600						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
[signature]	9/28/09	16:00		700-4727		25 3.8 23 34 3.6 3.9

Original - Return to Laboratory with Sample(s)

LA014

10/29/2009

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Alternate Laboratory Name/Location:
Phone:
Fax:

PROJECT REFERENCE: Olin McIntosh OU-2	PROJECT NO.: 61097090036	PROJECT LOCATION (STATE): AL
(LAB) PROJECT MANAGER: Charles Newton	P. O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: Keith Roberts	CLIENT PHONE: 423.336.4388	CLIENT FAX: 423.336.4166
CLIENT NAME: Olin Corporation	CLIENT EMAIL: kdroberts@olin.com	
CLIENT ADDRESS: 3855 N. Ocoee St.	Cleveland TN 37312	
COMPANY CONTRACTING THIS WORK (if applicable): MACTEC	SAMPLERS SIGNATURE: [signature]	

PAGE 4 OF 6

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	THg (7471)	Density (SW 2710C)	Grain Size (ASTM D422)	8081B HCB (8270C)	DDTR (8081A)	SPLP (1)					REMARKS
								ice	ice	ice	ice	ice	ice					
								NUMBER OF CONTAINERS SUBMITTED										
9/27/09	17:25	SDCR3-CA-092709	G		X			X	X	X	X	X	X					
9/27/09	16:23	SDCR3-CB-092709	G		X				X	X	X	X						
9/27/09	16:19	SDCR3-CC-092709	G		X			X										
9/27/09	16:12	SDCR3-CD-092709	G		X			X	X	X	X	X						
9/27/09	~~16:09~~ 16:34	SDCR3-CE-092709	G		X			X	X	X	X	X						
9/27/09	16:41	SDCR3-CF-092709	G		X			X	X	X	X	X						
9/27/09	16:47	SDCR3-CG-092709	G		X			X	X	X	X	X						
9/27/09	16:53	SDCR3-CH-092709	G		X			X	X	X	X	X						
9/27/09	16:59	SDCR3-CI-092709	G		X			X	X	X	X	X						
9/27/09	16:45	SDCR3-CJ-092709	G		X			X	X	X	X	X						
9/27/09	16:30	SDCR3-CK-092709	G		X			X	X	X	X	X						
9/27/09	12:00	SDCR-DUP02-092709	G		X						X	X						

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature] EMPTY CONTAINERS	9/28/09	1600	[signature]	9/28/09				
RECEIVED BY: (SIGNATURE) EMPTY CONTAINERS	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]	9/28/09	1600						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
[signature]	9/28/09	16:00	YES ○ NO ○		00417	25 38 23 34 36 39

Original - Return to Laboratory with Sample(s)

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Phone:
Fax:

PROJECT REFERENCE: Olin McIntosh OU-2	PROJECT NO.: 6107090036	PROJECT LOCATION (STATE): AL
(LAB) PROJECT MANAGER: Charles Newton	P. O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: Kathy Roberts	CLIENT PHONE: 423.336.4388	CLIENT FAX: 423.336.4164
CLIENT NAME: Olin Corporation	CLIENT EMAIL: kdroberts@olin.com	
CLIENT ADDRESS: 3855 N Ocoee St Cleveland TN 37312		
COMPANY CONTRACTING THIS WORK (if applicable): MACTEC	SAMPLER'S SIGNATURE: [signature]	

PAGE 5 OF 6

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

PRESERVATIVE: ice, ice, ice, ice, ice

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	THg (7471)	Density (SW 2710C)	Grain size (ASTM D422)	HCB (8081A)	DDTR (8081A)	REMARKS
9/27/09	16:45	SDCR3-CJ-092709(MS/MSD)	G	X				X			X	X	
9/28/09	9:20	SDCR8-CA-092809	G	X					X	X	X	X	
9/28/09	9:28	SDCR8-CB-092809	G	X					X	X	X	X	
	9:24	SDCR8-CC-092809	G	X				X					
	9:36	SDCR8-CD-092809	G	X				X	X	X	X	X	
	9:43	SDCR8-CE-092809	G	X				X	X	X	X	X	
	9:51	SDCR8-CF-092809	G	X				X	X	X	X	X	
	9:58	SDCR8-CG-092809	G	X				X	X	X	X	X	
	9:55	SDCR8-CH-092809	G	X				X	X	X	X	X	
	9:45	SDCR8-CI-092809	G	X				X	X	X	X	X	
	9:40	SDCR8-CJ-092809	G	X				X	X	X	X	X	
	9:30	SDCR8-CK-092809	G	X				X	X	X	X	X	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature] EMPTY CONTAINERS	9/28/09	1600	[signature]	9/28/09				
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature] EMPTY CONTAINERS	9/28/09	1600	[signature]					

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
[signature]	9/28/09	16:00	YES ○ NO ○	100	41727	2.5 3.8 2.3 3.4 3.6 3.9

Original - Return to Laboratory with Sample(s)

LTA014

10/29/2009

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Fax: (251) 666-6696

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Phone:
Fax:

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Olin McIntosh OU2	PROJECT NO.: 6107090036	PROJECT LOCATION (STATE): AL
(LAB) PROJECT MANAGER: Charles Newton	P. O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: Keith Roberts	CLIENT PHONE: 423336 4388	CLIENT FAX: 423336 4166
CLIENT NAME: Olin Corporation	CLIENT EMAIL: kdroberts@olin.com	
CLIENT ADDRESS: 3855 N. Ocoee St. Cleveland TN 37312		
COMPANY CONTRACTING THIS WORK (if applicable): MACTEC	SAMPLER'S SIGNATURE: [signature]	

PAGE 6 OF 6

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	TTN (9471)	Density (SW1312)	Gravimetric (ASTM D2172 8081A)	HCB (8270)	DDTR (8081A)							REMARKS
								ice	ice	ice	ice	ice							
								NUMBER OF CONTAINERS SUBMITTED											
9/28/09	9:55	SDCR8-CH-092809 (MS/MSD)	G	X				X	X	X	X	X							
9/28/09	12:00	SDCR-CDUP06-092809	G	X							X	X							

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9/28/09	1600	[signature]	9/28/09				
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]	9/28/09	1600						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
[signature]	9/28/09	16:01	YES ○ NO ○		90-4122	25 38 23 34 36 39

Original - Return to Laboratory with Sample(s)

LIA014

10/29/2009

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 700-41707-1

Job Description: Olin McIntosh OU-2 6107090036

For:
MACTEC Engineering and Consulting Inc
3200 Town Point Drive Northwest
Suite 100
Kennesaw, GA 30144

Attention: Mr. David Knaub

Approved for release.
Amanda Catrett
Project Manager I
10/29/2009 4:58 PM

Amanda Catrett
Project Manager I
amanda.catrett@testamericainc.com
10/29/2009

cc: Cynthia Draper
Heidi Fogell

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
700-41707-1	**SDCR2-CA-092409**				
Hexachlorobenzene		330000	96000	ug/Kg	8081A
Percent Moisture		31	0.10	%	2540G
Percent Solids		69	0.10	%	2540G
700-41707-2	**SDCR2-CC-092409**				
Mercury		23	3.3	mg/Kg	7471A
Percent Moisture		37	0.10	%	2540G
Percent Solids		63	0.10	%	2540G
700-41707-3	**SDCR2-CB-092409**				
Hexachlorobenzene		320000	100000	ug/Kg	8081A
Percent Moisture		36	0.10	%	2540G
Percent Solids		64	0.10	%	2540G
700-41707-4	**SDCR-CDUP01-092409**				
Hexachlorobenzene		240000	100000	ug/Kg	8081A
Percent Moisture		36	0.10	%	2540G
Percent Solids		64	0.10	%	2540G
700-41707-5	**SDCR2-CD-092409**				
Hexachlorobenzene		120000	6100	ug/Kg	8081A
Mercury		42	3.4	mg/Kg	7471A
Percent Moisture		46	0.10	%	2540G
Percent Solids		54	0.10	%	2540G
700-41707-6	**SDCR2-CE-092409**				
Hexachlorobenzene		9900	590	ug/Kg	8081A
Mercury		18	0.46	mg/Kg	7471A
Percent Moisture		44	0.10	%	2540G
Percent Solids		56	0.10	%	2540G
700-41707-7	**SDCR2-CF-092409**				
Hexachlorobenzene		250	23	ug/Kg	8081A
Mercury		0.17	0.029	mg/Kg	7471A
Percent Moisture		43	0.10	%	2540G
Percent Solids		57	0.10	%	2540G

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
700-41707-8	**SDCR2-CG-092409**				
Hexachlorobenzene		460	22	ug/Kg	8081A
Mercury		0.38	0.16	mg/Kg	7471A
Percent Moisture		41	0.10	%	2540G
Percent Solids		59	0.10	%	2540G
700-41707-9	**SDCR2-CH-092409**				
Hexachlorobenzene		31	22	ug/Kg	8081A
Mercury		0.070	0.020	mg/Kg	7471A
Percent Moisture		41	0.10	%	2540G
Percent Solids		59	0.10	%	2540G
700-41707-10	**SDCR2-CI-092409**				
Mercury		0.060	0.030	mg/Kg	7471A
Percent Moisture		40	0.10	%	2540G
Percent Solids		60	0.10	%	2540G
700-41707-11	**SDCR2-CJ-092409**				
Mercury		0.057	0.038	mg/Kg	7471A
Percent Moisture		41	0.10	%	2540G
Percent Solids		59	0.10	%	2540G
700-41707-12	**SDCR2-CK-092409**				
Mercury		0.055	0.042	mg/Kg	7471A
Percent Moisture		41	0.10	%	2540G
Percent Solids		59	0.10	%	2540G
700-41707-13	**SDCR8-FSA-092409**				
Mercury		24	1.0	mg/Kg	7471A
Percent Moisture		78	0.10	%	2540G
Percent Solids		22	0.10	%	2540G
Total Organic Carbon		23000	2000	mg/Kg	Lloyd Kahn -TOC
700-41707-14	**SDCR8-FSB-092409**				
Mercury		26	2.0	mg/Kg	7471A
Percent Moisture		76	0.10	%	2540G
Percent Solids		24	0.10	%	2540G
Total Organic Carbon		21000	2000	mg/Kg	Lloyd Kahn -TOC

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
700-41707-15	**SDCR8-FSC-092409**				
Mercury		26	6.0	mg/Kg	7471A
Percent Moisture		72	0.10	%	2540G
Percent Solids		28	0.10	%	2540G
Total Organic Carbon		22000	2000	mg/Kg	Lloyd Kahn -TOC
700-41707-16	**SDCR8-FSD-092409**				
Mercury		18	1.7	mg/Kg	7471A
Percent Moisture		68	0.10	%	2540G
Percent Solids		32	0.10	%	2540G
Total Organic Carbon		20000	2000	mg/Kg	Lloyd Kahn -TOC
700-41707-17	**SDCR8-FSE-092409**				
Mercury		15	1.4	mg/Kg	7471A
Percent Moisture		74	0.10	%	2540G
Percent Solids		26	0.10	%	2540G
Total Organic Carbon		19000	2000	mg/Kg	Lloyd Kahn -TOC
700-41707-19	**SDCR11-FSA-092509**				
Mercury		33	8.4	mg/Kg	7471A
Percent Moisture		79	0.10	%	2540G
Percent Solids		21	0.10	%	2540G
Total Organic Carbon		31000	2000	mg/Kg	Lloyd Kahn -TOC
700-41707-20	**SDCR11-FSB-092509**				
Mercury		40	9.9	mg/Kg	7471A
Percent Moisture		73	0.10	%	2540G
Percent Solids		27	0.10	%	2540G
Total Organic Carbon		25000	2000	mg/Kg	Lloyd Kahn -TOC
700-41707-21	**SDCR11-FSC-092509**				
Mercury		36	7.0	mg/Kg	7471A
Percent Moisture		70	0.10	%	2540G
Percent Solids		30	0.10	%	2540G
Total Organic Carbon		24000	2000	mg/Kg	Lloyd Kahn -TOC

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
700-41707-22	**SDCR11-FSD-092509**				
Mercury		200	9.9	mg/Kg	7471A
Percent Moisture		66	0.10	%	2540G
Percent Solids		34	0.10	%	2540G
Total Organic Carbon		16000	2000	mg/Kg	Lloyd Kahn -TOC
700-41707-23	**SDCR11-FSE-092509**				
Mercury		46	6.5	mg/Kg	7471A
Percent Moisture		61	0.10	%	2540G
Percent Solids		39	0.10	%	2540G
Total Organic Carbon		18000	2000	mg/Kg	Lloyd Kahn -TOC
700-41707-24	**SDCR-FSDUP03-092509**				
Mercury		23	2.0	mg/Kg	7471A
Percent Moisture		60	0.10	%	2540G
Percent Solids		40	0.10	%	2540G
Total Organic Carbon		19000	2000	mg/Kg	Lloyd Kahn -TOC
700-41707-25	**SDCR12-FSA-092509**				
Mercury		12	0.67	mg/Kg	7471A
Percent Moisture		85	0.10	%	2540G
Percent Solids		15	0.10	%	2540G
Total Organic Carbon		38000	2000	mg/Kg	Lloyd Kahn -TOC
700-41707-26	**SDCR12-FSB-092509**				
Mercury		17	0.79	mg/Kg	7471A
Percent Moisture		78	0.10	%	2540G
Percent Solids		22	0.10	%	2540G
Total Organic Carbon		34000	2000	mg/Kg	Lloyd Kahn -TOC
700-41707-27	**SDCR12-FSC-092509**				
Mercury		19	2.0	mg/Kg	7471A
Percent Moisture		77	0.10	%	2540G
Percent Solids		23	0.10	%	2540G
Total Organic Carbon		33000	2000	mg/Kg	Lloyd Kahn -TOC

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
700-41707-28	**SDCR12-FSD-092509**				
Mercury		67	10	mg/Kg	7471A
Percent Moisture		74	0.10	%	2540G
Percent Solids		26	0.10	%	2540G
Total Organic Carbon		27000	2000	mg/Kg	Lloyd Kahn -TOC
700-41707-29	**SDCR12-FSE-092509**				
Mercury		0.38	0.37	mg/Kg	7471A
Percent Moisture		67	0.10	%	2540G
Percent Solids		33	0.10	%	2540G
Total Organic Carbon		21000	2000	mg/Kg	Lloyd Kahn -TOC

METHOD SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Organochlorine Pesticides (GC)	TAL MOB	SW846 8081A	
Ultrasonic Extraction	TAL MOB		SW846 3550B
Mercury (CVAA)	TAL MOB	SW846 7471A	
Preparation, Mercury	TAL MOB		SW846 7471A
2540G	TAL MOB	SM18 2540G	
Lloyd Kahn	TAL MOB	EPA-02 Lloyd Kahn -TOC	
General Sub Contract Method	TAL BUR	Subcontract	
Matrix Water			
Organochlorine Pesticides (GC)	TAL MOB	SW846 8081A	
Liquid-Liquid Extraction (Continuous)	TAL MOB		SW846 3520C
Mercury (CVAA)	TAL MOB	SW846 7470A	
Preparation, Mercury	TAL MOB		SW846 7470A

Lab References:

TAL BUR = TestAmerica Burlington

TAL MOB = TestAmerica Mobile

Method References:

EPA-02 = "Compendium Of Methods For The Determination Of Toxic Organic Compounds In Ambient Air", EPA-625/R-96/010B, January 1999.

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Method	Analyst	Analyst ID
SW846 8081A	Bendolph, Jackie	JB
SW846 8081A	Pel, Mya B	MBP
SW846 7470A	Mathews, Robert	RDM
SW846 7471A	Mathews, Robert	RDM
SM18 2540G	Phanthapannha, Charles F	CFP
EPA-02 Lloyd Kahn -TOC	Gordon, Jonathan M	JMG

SAMPLE SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
700-41707-1	SDCR2-CA-092409	Solid	09/24/2009 1334	09/25/2009 1630
700-41707-2	SDCR2-CC-092409	Solid	09/24/2009 1345	09/25/2009 1630
700-41707-3	SDCR2-CB-092409	Solid	09/24/2009 1348	09/25/2009 1630
700-41707-4	SDCR-CDUP01-092409	Solid	09/24/2009 1200	09/25/2009 1630
700-41707-5	SDCR2-CD-092409	Solid	09/24/2009 1357	09/25/2009 1630
700-41707-6	SDCR2-CE-092409	Solid	09/24/2009 1410	09/25/2009 1630
700-41707-7	SDCR2-CF-092409	Solid	09/24/2009 1425	09/25/2009 1630
700-41707-8	SDCR2-CG-092409	Solid	09/24/2009 1437	09/25/2009 1630
700-41707-9	SDCR2-CH-092409	Solid	09/24/2009 1446	09/25/2009 1630
700-41707-10	SDCR2-CI-092409	Solid	09/24/2009 1452	09/25/2009 1630
700-41707-11	SDCR2-CJ-092409	Solid	09/24/2009 1457	09/25/2009 1630
700-41707-12	SDCR2-CK-092409	Solid	09/24/2009 1501	09/25/2009 1630
700-41707-13	SDCR8-FSA-092409	Solid	09/24/2009 1557	09/25/2009 1630
700-41707-14	SDCR8-FSB-092409	Solid	09/24/2009 1601	09/25/2009 1630
700-41707-15	SDCR8-FSC-092409	Solid	09/24/2009 1607	09/25/2009 1630
700-41707-16	SDCR8-FSD-092409	Solid	09/24/2009 1611	09/25/2009 1630
700-41707-17	SDCR8-FSE-092409	Solid	09/24/2009 1617	09/25/2009 1630
700-41707-17MS	SDCR8-FSE-092409	Solid	09/24/2009 1617	09/25/2009 1630
700-41707-17MSD	SDCR8-FSE-092409	Solid	09/24/2009 1617	09/25/2009 1630
700-41707-18	SDCR-CEB02-092509	Water	09/25/2009 0845	09/25/2009 1630
700-41707-19	SDCR11-FSA-092509	Solid	09/25/2009 0933	09/25/2009 1630
700-41707-20	SDCR11-FSB-092509	Solid	09/25/2009 0943	09/25/2009 1630
700-41707-21	SDCR11-FSC-092509	Solid	09/25/2009 0949	09/25/2009 1630
700-41707-22	SDCR11-FSD-092509	Solid	09/25/2009 0953	09/25/2009 1630
700-41707-23	SDCR11-FSE-092509	Solid	09/25/2009 0959	09/25/2009 1630
700-41707-24	SDCR-FSDUP03-092509	Solid	09/25/2009 1200	09/25/2009 1630
700-41707-25	SDCR12-FSA-092509	Solid	09/25/2009 1108	09/25/2009 1630
700-41707-26	SDCR12-FSB-092509	Solid	09/25/2009 1155	09/25/2009 1630
700-41707-27	SDCR12-FSC-092509	Solid	09/25/2009 1119	09/25/2009 1630
700-41707-28	SDCR12-FSD-092509	Solid	09/25/2009 1124	09/25/2009 1630
700-41707-29	SDCR12-FSE-092509	Solid	09/25/2009 1130	09/25/2009 1630
700-41707-29MS	SDCR12-FSE-092509	Solid	09/25/2009 1130	09/25/2009 1630
700-41707-29MSD	SDCR12-FSE-092509	Solid	09/25/2009 1130	09/25/2009 1630

SAMPLE RESULTS

TestAmerica
South Burlington, VT

Sample Data Summary Package

70041707

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

October 19, 2009

Ms. Amanda Catrett
TestAmerica, Inc.
900 Lakeside Drive
Mobile, AL 36693

Re: Laboratory Project No. 29023
Case: MACTEC; SDG: 70041707

Dear Ms. Catrett:

Enclosed are the analytical results for the samples that were received by TestAmerica Burlington on September 30th, 2009. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 09/30/09 ETR No: 133908		
808502	SDCR2-CA-092409	09/24/09	SOLID
808503	SDCR2-CB-092409	09/24/09	SOLID
808504	SDCR2-CD-092409	09/24/09	SOLID
808505	SDCR2-CE-092409	09/24/09	SOLID
808506	SDCR2-CF-092409	09/24/09	SOLID
808507	SDCR2-CG-092409	09/24/09	SOLID
808508	SDCR2-CH-092409	09/24/09	SOLID
808509	SDCR2-CI-092409	09/24/09	SOLID
808510	SDCR2-CJ-092409	09/24/09	SOLID
808511	SDCR2-CK-092409	09/24/09	SOLID

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

The samples were analyzed for particle size by ASTM D422 and for density by ASTM D2937. The density results do not represent the in-place density of the soil. The samples were received in a disturbed state, and subsequent to receipt, the laboratory molded the samples into Shelby tubes, and performed the tests accordingly.

Any reference within this report to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.) The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 660-1990.

Sincerely,

Rayburn J. Lavigne

Rayburn Lavigne
Project Manager

RJL/hsf
Enclosure

TestAmerica Mobile
900 Lakeside Drive
Mobile, AL 36693
Phone (251) 666-6633 Fax (251) 666-6696

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Catrett, Amanda	Carrier Tracking No(s):	COC No. 700-6274.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: amanda.catrett@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, inc.				Job # 700-41707-1
Address: 30 Community Drive, Suite 11	Due Date Requested: 10/7/2009			
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel)	PO #			
Email:	WO #			
Project Name: Olin McIntosh OU-2 6107090036	Project #: 70003229			
Site:	SSOW#			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - Di Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT/ Grain Size	SUBCONTRACT/ Bulk Density	Total Number of containers	Special Instructions/Note:
Preservation Code:										
SDCR2-CA-092409 (700-41707-1)	9/24/09	13:34		Solid			X	X	1	
SDCR2-CB-092409 (700-41707-3)	9/24/09	13:48		Solid			X	X	1	
SDCR2-CD-092409 (700-41707-5)	9/24/09	13:57		Solid			X	X	1	
SDCR2-CE-092409 (700-41707-6)	9/24/09	14:10		Solid			X	X	1	
SDCR2-CF-092409 (700-41707-7)	9/24/09	14:25		Solid			X	X	1	
SDCR2-CG-092409 (700-41707-8)	9/24/09	14:37		Solid			X	X	1	
SDCR2-CH-092409 (700-41707-9)	9/24/09	14:46		Solid			X	X	1	
SDCR2-CI-092409 (700-41707-10)	9/24/09	14:52		Solid			X	X	1	
SDCR2-CJ-092409 (700-41707-11)	9/24/09	14:57		Solid			X	X	1	
SDCR2-CK-092409 (700-41707-12)	9/24/09	15:01		Solid			X	X	2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company
Relinquished by	Date/Time: 9/29/09 1600	Company	Received by	Date/Time: 9/30/09 1025	Company TA
Relinquished by	Date/Time	Company	Received by	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Data Summary – Geotechnical

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR2-CA-092409

Lab Name: TestAmerica Burlington | Contract: 700-41707-1 | SDG No.: 70041707

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808502

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/07/09		g/cm3	1	0.0	1.16	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR2-CB-092409

Lab Name: TestAmerica Burlington | Contract: 700-41707-1 | SDG No.: 70041707

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808503

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/07/09		g/cm3	1	0.0	0.97	

Printed on: 10/15/09 10:02 AM

10/29/2009

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR2-CD-092409

Lab Name: TestAmerica Burlington | Contract: 700-41707-1 | SDG No.: 70041707

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808504

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/07/09		g/cm3	1	0.0	0.77	

Printed on: 10/15/09 10:02 AM 10/29/2009

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR2-CE-092409

Lab Name: TestAmerica Burlington | Contract: 700-41707-1 | SDG No.: 70041707

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808505

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/07/09		g/cm3	1	0.0	0.78	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR2-CF-092409

Lab Name: TestAmerica Burlington | Contract: 700-41707-1 | SDG No.: 70041707

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808506

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/07/09		g/cm3	1	0.0	0.88	

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR2-CG-092409

Lab Name: TestAmerica Burlington | Contract: 700-41707-1 | SDG No.: 70041707

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808507

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/07/09		g/cm3	1	0.0	0.81	

Printed on: 10/15/09 10:02 AM

10/29/2009

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR2-CH-092409

Lab Name: TestAmerica Burlington | Contract: 700-41707-1 | SDG No.: 70041707

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808508

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/07/09		g/cm3	1	0.0	0.87	

Printed on: 10/15/09 10:02 AM

10/29/2009

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.
SDCR2-CI-092409

Lab Name: TestAmerica Burlington | Contract: 700-41707-1 | SDG No.: 70041707

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808509

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/07/09		g/cm3	1	0.0	0.79	

Printed on: 10/15/09 10:02 AM 10/29/2009

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR2-CJ-092409

Lab Name: TestAmerica Burlington | Contract: 700-41707-1 | SDG No.: 70041707

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808510

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/07/09		g/cm3	1	0.0	0.83	

Printed on: 10/15/09 10:02 AM

10/29/2009

GEOTECHNICAL / GENERAL CHEMISTRY

Sample Report Summary

Client Sample No.

SDCR2-CK-092409

Lab Name: TestAmerica Burlington | Contract: 700-41707-1 | SDG No.: 70041707

Lab Code: TALVT | Case No.: MACTEC | Lab Sample ID: 808511

Matrix: SOLID | Client: STLALM | Date Received: 09/30/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
D2937	In-Place Density	10/07/09		g/cm3	1	0.0	0.83	

ASTM Method D2937: Standard Test Method for Density of Soil in Place by the Drive-Cylinder Method Calculations

Client Code: STLALM
ETR: 133908
SDG: 70041707

Start Date: 10/07/09
Start Time: 1735
End Date: 10/08/09
Analyst: MAP

	Weight Of					Measurement of							
Laboratory Number	Container (g)	Container + Sample (g)	Pan (g)	Pan + Wet Sample (g)	Pan + Dry Sample (g)	Sample Recovery (cm)	Container Diameter (cm)	Area (cm^2)	Wet Sample (g)	Dry Mass Basis (%)	Sample Volume (cm^3)	Dry Mass (g)	In-Place Density (g/cm^3)
808502	125.20	301.31	3.79	61.00	42.19	4.29	5.50	23.76	176.11	49.0%	101.92	118.21	1.16
808503	124.69	291.23	3.85	58.07	38.34	4.59	5.50	23.76	166.54	57.2%	109.05	105.94	0.97
808504	125.09	309.58	3.89	99.25	53.34	5.22	5.50	23.76	184.49	92.8%	124.02	95.67	0.77
808505	124.98	280.97	3.90	86.15	47.85	4.50	5.50	23.76	155.99	87.1%	106.91	83.35	0.78
808506	125.69	295.13	3.87	95.26	54.35	4.46	5.50	23.76	169.44	81.0%	105.96	93.59	0.88
808507	125.44	303.45	3.91	105.50	62.03	5.30	5.50	23.76	178.01	74.8%	125.92	101.84	0.81
808508	52.18	141.70	3.91	89.17	52.03	3.20	4.80	18.10	89.52	77.2%	57.91	50.52	0.87
808509	124.91	273.96	3.88	94.51	56.03	4.55	5.50	23.76	149.05	73.8%	108.10	85.77	0.79
808510	125.16	290.85	3.80	99.16	59.00	4.88	5.50	23.76	165.69	72.8%	115.94	95.91	0.83
808511	124.53	286.44	3.84	103.44	62.05	4.80	5.50	23.76	161.91	71.1%	114.04	94.63	0.83

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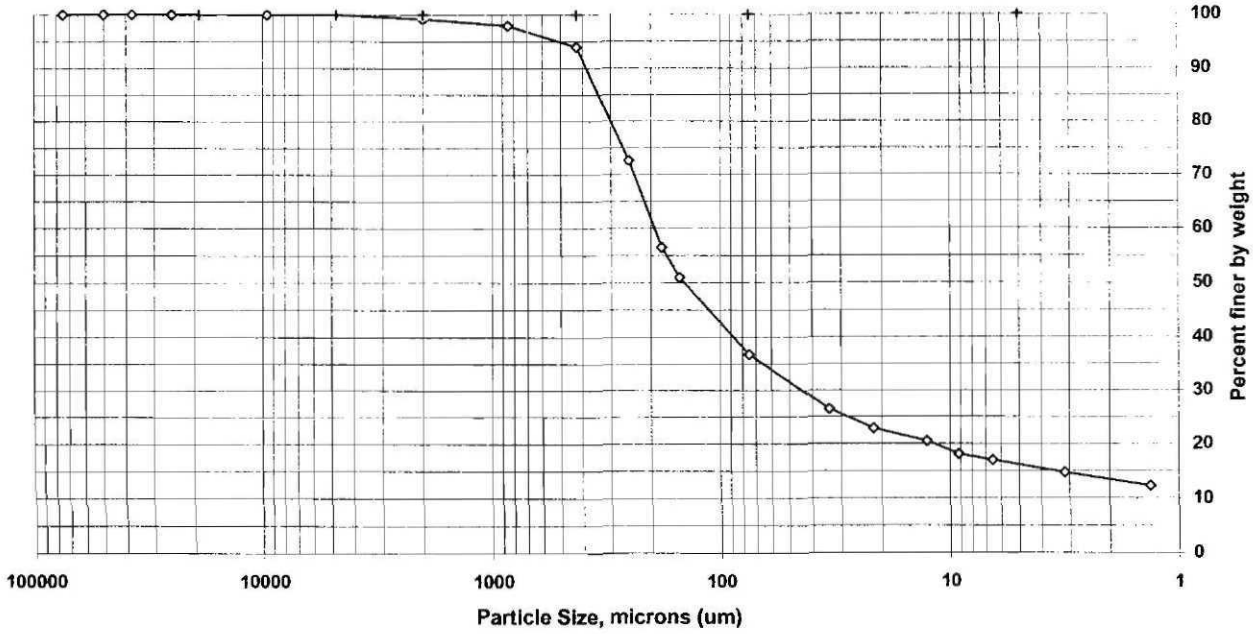
10/29/2009

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041707	**Date Received:**	09/30/2009
Sample ID:	SDCR2-CA-092409	**ETR(s):**	133908	**Start Date:**	10/02/2009
Lab ID:	808502			**End Date:**	10/15/2009

Percent Solids:	67.1%	**Non-soil material:**	na
Specific Gravity:	2.650	**Shape (> #10):**	angular
Maximum Particle Size:	Crs sand	**Hardness (> #10):**	hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.2	0.8
#20	850	97.9	1.2
#40	425	94.0	3.9
#60	250	72.6	21.4
#80	180	56.5	16.1
#100	150	51.0	5.5
#200	75	36.8	14.2
Hydrometer	33.7	26.4	10.3
I	21.6	22.9	3.6
I	12.6	20.5	2.4
I	9.2	18.1	2.4
I	6.5	16.9	1.2
I	3.2	14.7	2.2
V	1.3	12.3	2.4

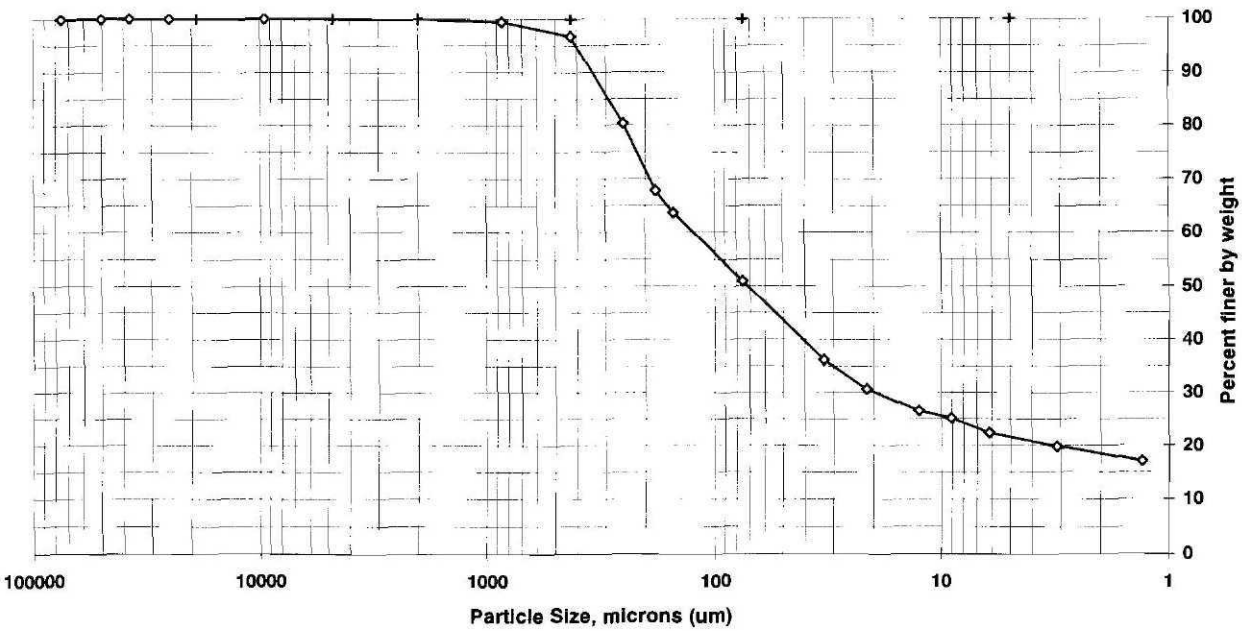
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	63.2
Coarse Sand	0.8
Medium Sand	5.2
Fine Sand	57.3
Silt	19.9
Clay	16.9

Preparation Method: D2217
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041707	**Date Received:**	9/30/2009
Sample ID:	SDCR2-CB-092409	**ETR(s):**	133908	**Start Date:**	10/2/2009
Lab ID:	808503			**End Date:**	10/15/2009

Percent Solids:	63.6%	**Non-soil material:**	na
Specific Gravity:	2.650	**Shape (> #10):**	angular
Maximum Particle Size:	Crs sand	**Hardness (> #10):**	hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	99.9	0.1
#20	850	99.4	0.6
#40	425	96.7	2.7
#60	250	80.3	16.4
#80	180	67.8	12.5
#100	150	63.6	4.2
#200	75	50.9	12.8
Hydrometer	33.0	36.2	14.7
|	21.3	30.7	5.5
|	12.5	26.5	4.2
|	9.0	25.1	1.4
|	6.2	22.4	2.8
|	3.1	19.8	2.5
V	1.3	17.1	2.8

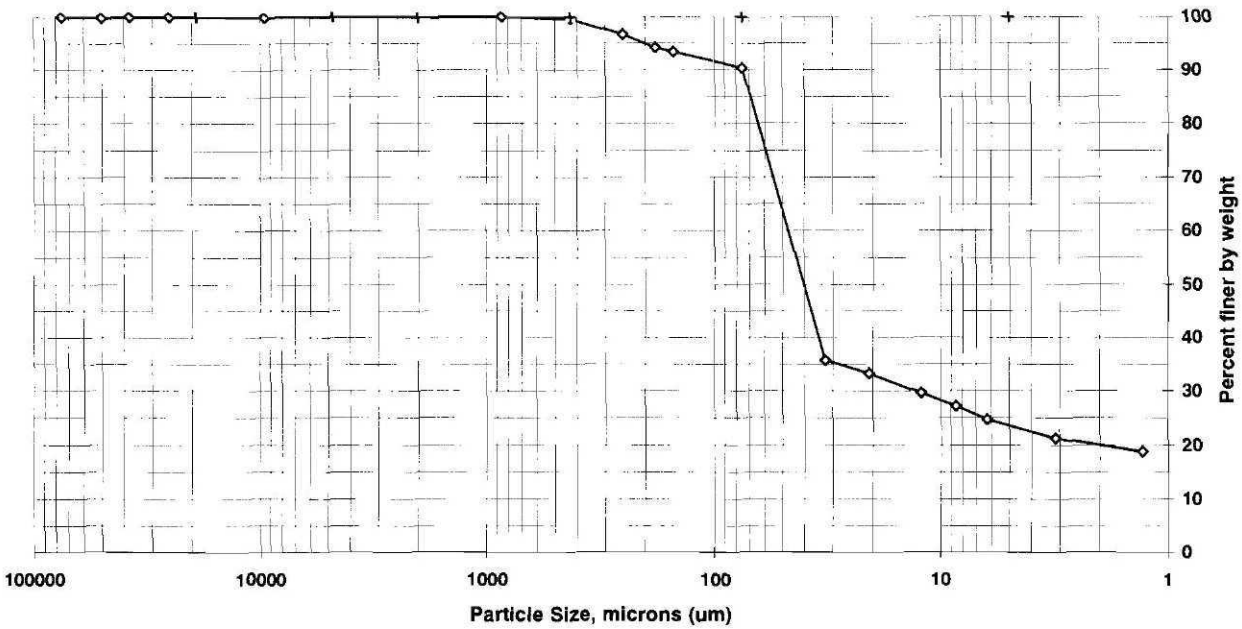
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	49.1
Coarse Sand	0.1
Medium Sand	3.2
Fine Sand	45.9
Silt	28.5
Clay	22.4

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041707	**Date Received:**	9/30/2009
Sample ID:	SDCR2-CD-092409	**ETR(s):**	133908	**Start Date:**	10/2/2009
Lab ID:	808504			**End Date:**	10/15/2009

Percent Solids:	51.9%	**Non-soil material:**	na
Specific Gravity:	2.650	**Shape (> #10):**	na
Maximum Particle Size:	Med sand	**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.6	0.4
#60	250	96.6	3.0
#80	180	94.2	2.4
#100	150	93.4	0.8
#200	75	90.3	3.1
Hydrometer	32.4	35.7	54.6
I	20.7	33.3	2.5
I	12.2	29.6	3.7
I	8.6	27.2	2.5
I	6.2	24.7	2.5
I	3.1	21.2	3.5
V	1.3	18.8	2.5

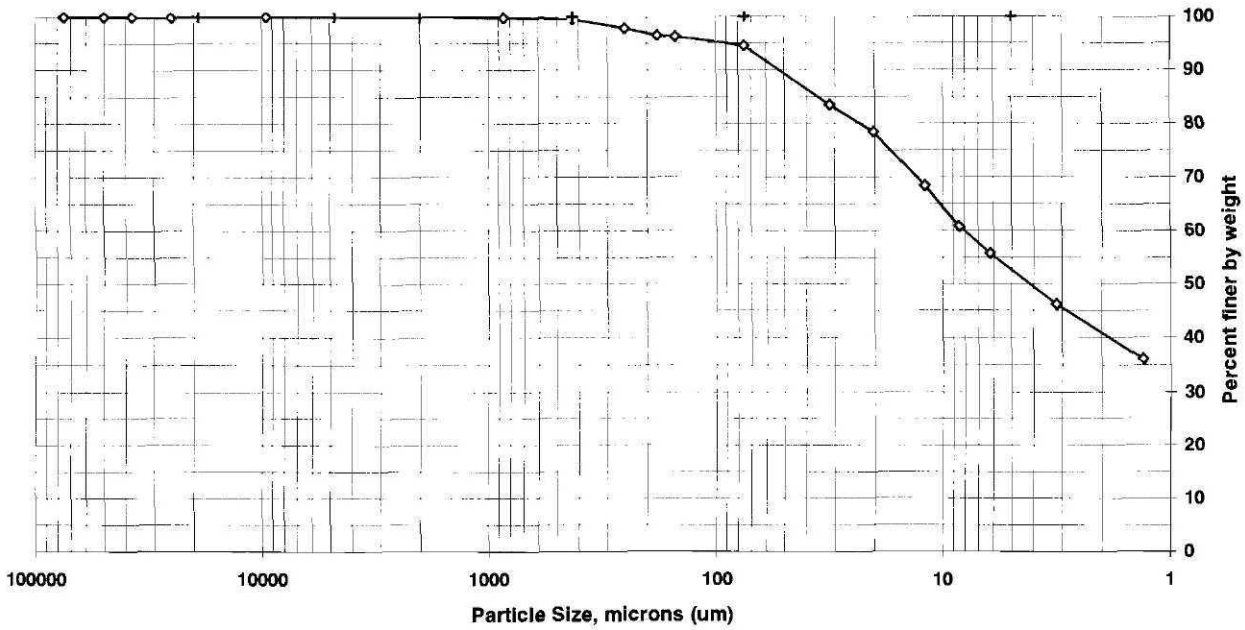
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	9.7
Coarse Sand	0.0
Medium Sand	0.4
Fine Sand	9.3
Silt	65.6
Clay	24.7

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041707	**Date Received:**	9/30/2009
Sample ID:	SDCR2-CE-09409	**ETR(s):**	133908	**Start Date:**	10/2/2009
Lab ID:	808505			**End Date:**	10/15/2009

Percent Solids:	53.4%	**Non-soil material:**	na
Specific Gravity:	2.650	**Shape (> #10):**	na
Maximum Particle Size:	Med sand	**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.8	0.2
#40	425	99.5	0.3
#60	250	97.9	1.7
#80	180	96.6	1.3
#100	150	96.2	0.3
#200	75	94.5	1.8
Hydrometer	31.6	83.5	11.0
|	20.3	78.4	5.0
|	12.0	68.4	10.1
|	8.5	60.8	7.6
|	6.2	55.8	5.0
|	3.2	46.1	9.6
V	1.3	36.1	10.1

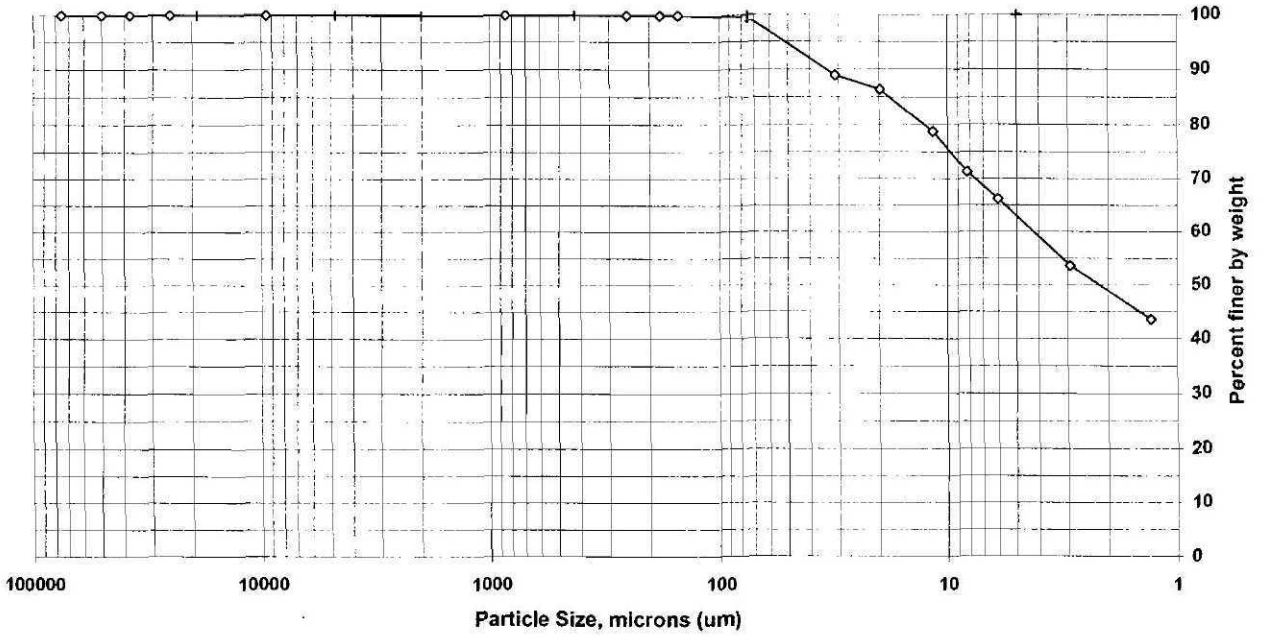
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	5.5
Coarse Sand	0.0
Medium Sand	0.5
Fine Sand	5.0
Silt	38.7
Clay	55.8

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041707	**Date Received:**	09/30/2009
Sample ID:	SDCR2-CF-092409	**ETR(s):**	133908	**Start Date:**	10/02/2009
Lab ID:	808506			**End Date:**	10/15/2009

Percent Solids:	55.2%	**Non-soil material:**	na
Specific Gravity:	2.650	**Shape (> #10):**	na
Maximum Particle Size:	Med sand	**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	100.0	0.0
#60	250	99.9	0.1
#80	180	99.9	0.0
#100	150	99.9	0.0
#200	75	99.5	0.3
Hydrometer	31.1	88.8	10.7
I	19.8	86.3	2.5
I	11.6	78.8	7.5
I	8.2	71.2	7.5
I	6.0	66.2	5.0
I	2.9	53.6	12.6
V	1.3	43.6	10.1

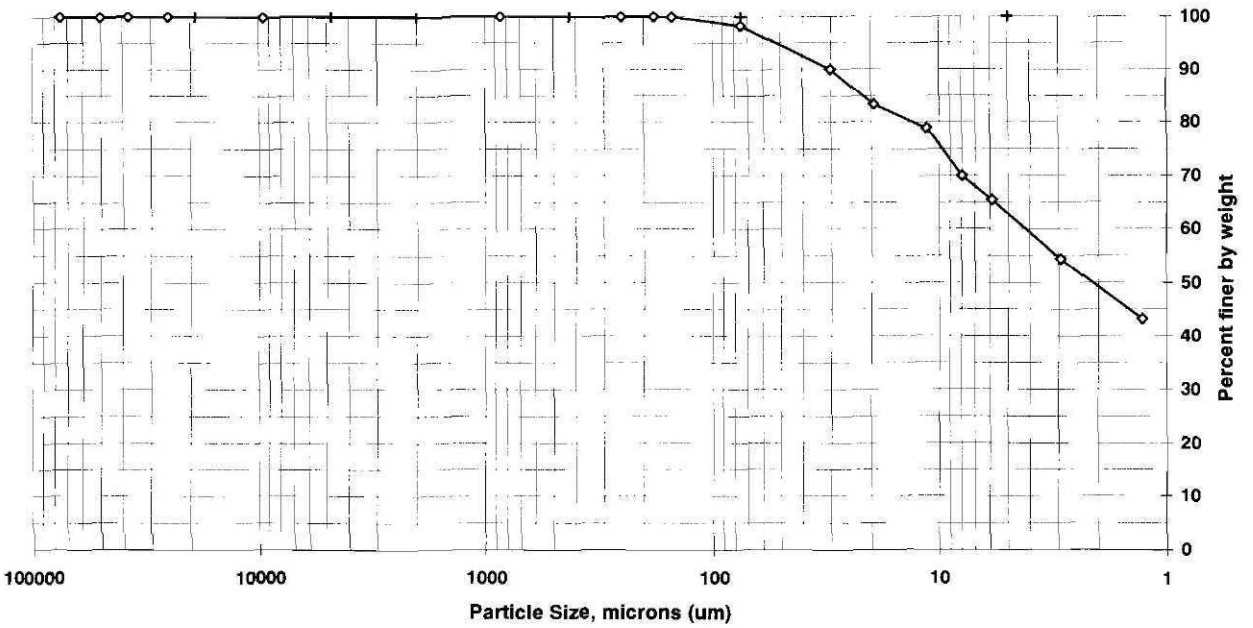
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.5
Coarse Sand	0.0
Medium Sand	0.0
Fine Sand	0.4
Silt	33.3
Clay	66.2

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041707	**Date Received:**	9/30/2009
Sample ID:	SDCR2-CG-092409	**ETR(s):**	133908	**Start Date:**	10/2/2009
Lab ID:	808507			**End Date:**	10/15/2009

Percent Solids:	57.2%	**Non-soil material:**	na
Specific Gravity:	2.650	**Shape (> #10):**	na
Maximum Particle Size:	Med sand	**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	100.0	0.0
#60	250	99.9	0.0
#80	180	99.9	0.0
#100	150	99.9	0.1
#200	75	98.2	1.6
Hydrometer	30.1	90.0	8.3
|	19.4	83.3	6.7
|	11.3	78.8	4.5
|	8.0	69.9	8.9
|	5.9	65.4	4.5
|	2.9	54.3	11.2
V	1.3	43.1	11.2

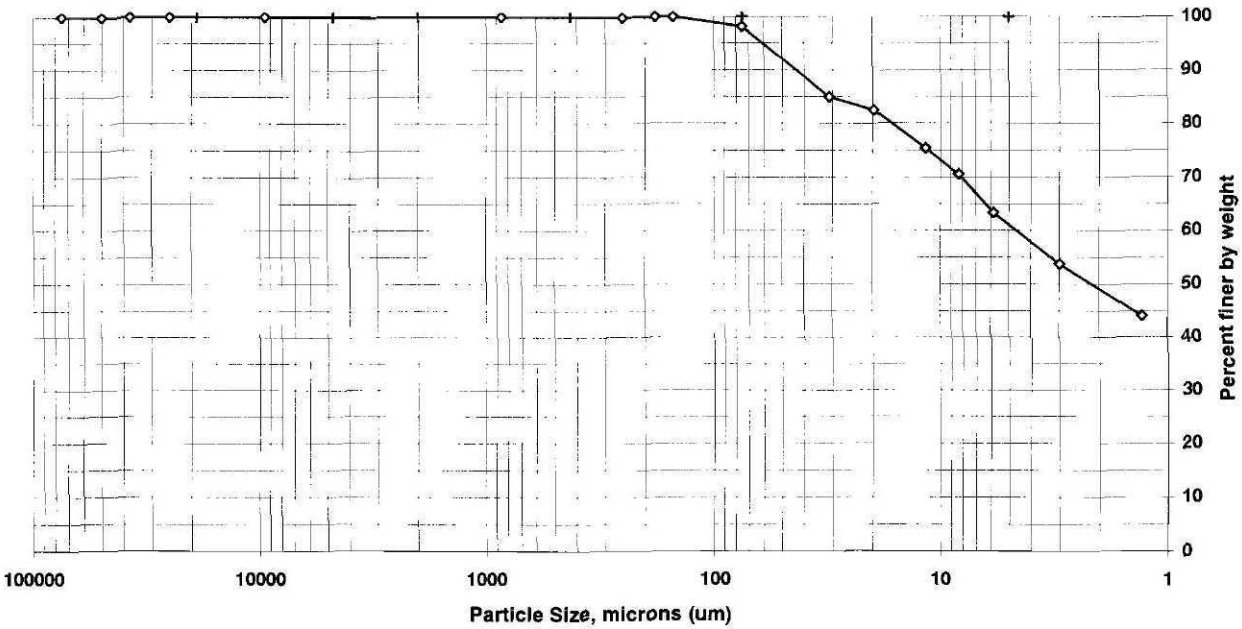
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	1.8
Coarse Sand	0.0
Medium Sand	0.0
Fine Sand	1.7
Silt	32.8
Clay	65.4

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041707	**Date Received:**	9/30/2009
Sample ID:	SDCR2-CH-092409	**ETR(s):**	133908	**Start Date:**	10/2/2009
Lab ID:	808508			**End Date:**	10/15/2009

Percent Solids:	56.4%	**Non-soil material:**	na
Specific Gravity:	2.650	**Shape (> #10):**	na
Maximum Particle Size:	Med sand	**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	100.0	0.0
#60	250	99.9	0.0
#80	180	99.9	0.0
#100	150	99.9	0.0
#200	75	98.1	1.8
Hydrometer	31.1	85.0	13.1
|	19.8	82.6	2.4
|	11.6	75.3	7.2
|	8.3	70.5	4.8
|	5.8	63.3	7.2
|	3.0	53.7	9.6
V	1.3	44.1	9.6

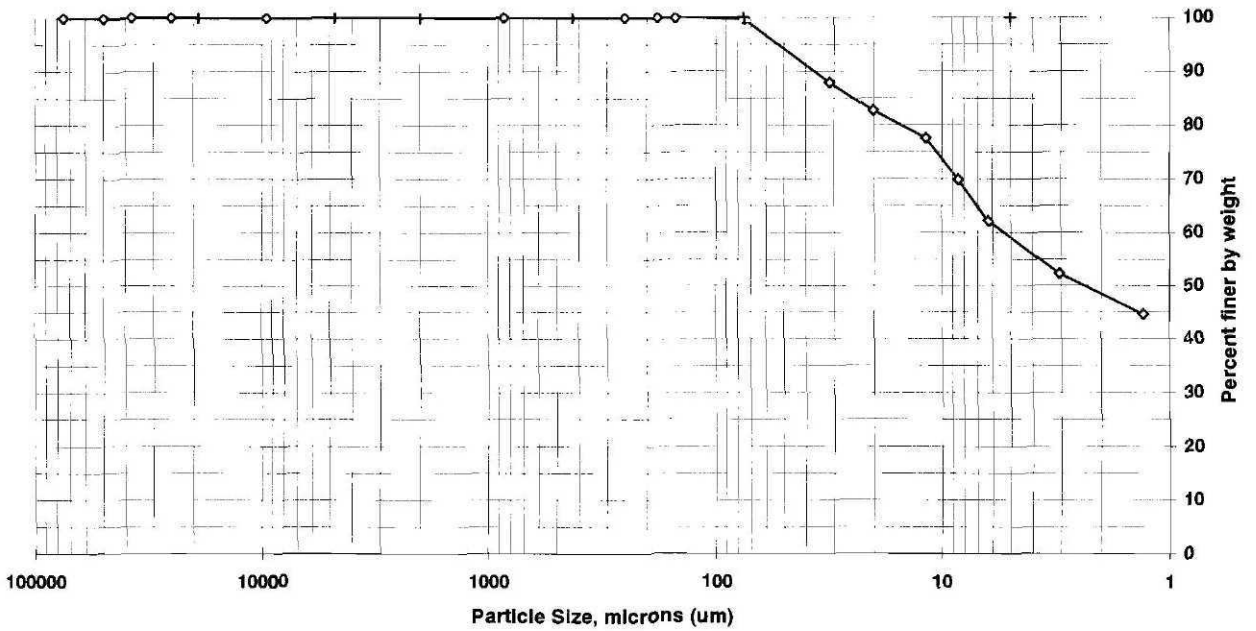
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	1.9
Coarse Sand	0.0
Medium Sand	0.0
Fine Sand	1.9
Silt	34.8
Clay	63.3

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041707	**Date Received:**	9/30/2009
Sample ID:	SDCR2-CI-092409	**ETR(s):**	133908	**Start Date:**	10/2/2009
Lab ID:	808509			**End Date:**	10/15/2009

Percent Solids:	57.5%	**Non-soil material:**	na
Specific Gravity:	2.650	**Shape (> #10):**	na
Maximum Particle Size:	Fine sand	**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	100.0	0.0
#60	250	100.0	0.0
#80	180	100.0	0.0
#100	150	100.0	0.0
#200	75	99.6	0.4
Hydrometer	31.4	87.9	11.8
|	20.1	82.7	5.1
|	11.8	77.6	5.1
|	8.5	69.9	7.7
|	6.2	62.1	7.7
|	3.0	52.3	9.9
V	1.3	44.6	7.7

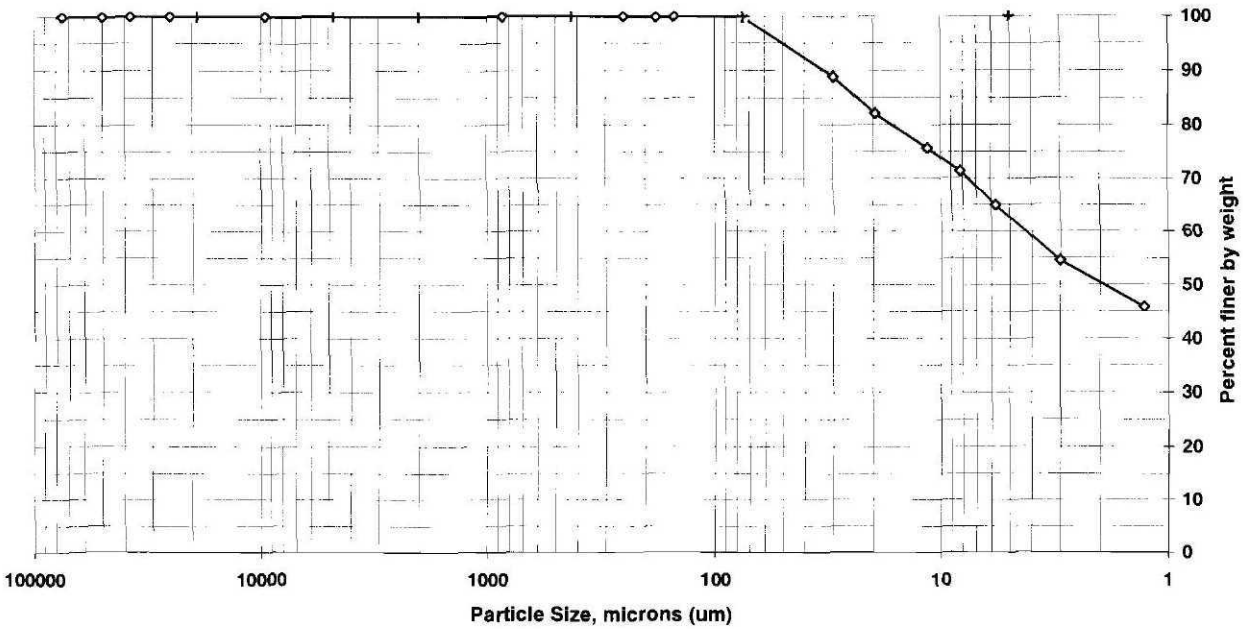
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.4
Coarse Sand	0.0
Medium Sand	0.0
Fine Sand	0.4
Silt	37.5
Clay	62.1

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041707	**Date Received:**	9/30/2009
Sample ID:	SDCR2-CJ-092409	**ETR(s):**	133908	**Start Date:**	10/2/2009
Lab ID:	808510			**End Date:**	10/15/2009

Percent Solids:	57.9%	**Non-soil material:**	na
Specific Gravity:	2.650	**Shape (> #10):**	na
Maximum Particle Size:	Fine sand	**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	100.0	0.0
#60	250	100.0	0.0
#80	180	100.0	0.0
#100	150	100.0	0.0
#200	75	99.8	0.2
Hydrometer	29.9	88.9	10.9
|	19.4	82.1	6.8
|	11.4	75.6	6.5
|	8.2	71.3	4.3
|	5.7	64.9	6.5
|	3.0	54.5	10.4
V	1.3	45.9	8.6

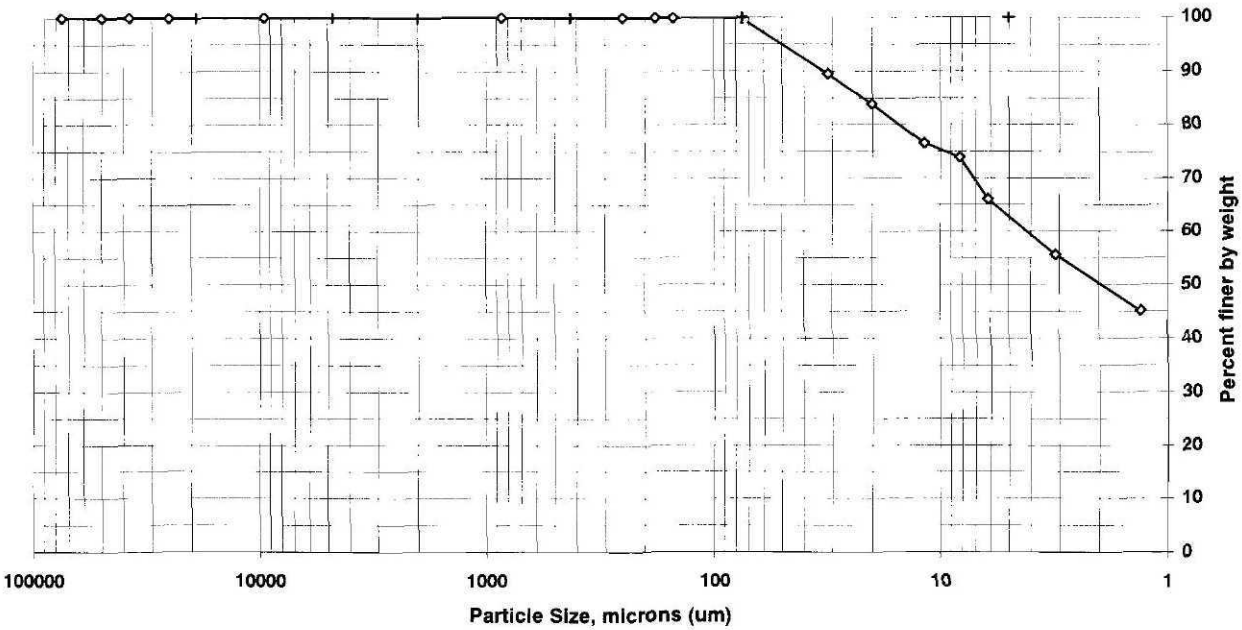
Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.2
Coarse Sand	0.0
Medium Sand	0.0
Fine Sand	0.2
Silt	35.0
Clay	64.9

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Particle Size of Soils by ASTM D422

Client Code:	STLALM	**SDG:**	70041707	**Date Received:**	9/30/2009
Sample ID:	SDCR2-CK092409	**ETR(s):**	133908	**Start Date:**	10/2/2009
Lab ID:	808511			**End Date:**	10/15/2009

Percent Solids:	58.4%	**Non-soil material:**	na
Specific Gravity:	2.650	**Shape (> #10):**	na
Maximum Particle Size:	Fine sand	**Hardness (> #10):**	na



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	100.0	0.0
#60	250	100.0	0.0
#80	180	100.0	0.0
#100	150	100.0	0.0
#200	75	99.8	0.2
Hydrometer	31.3	89.5	10.3
|	20.1	83.8	5.6
|	11.8	76.5	7.4
|	8.2	73.8	2.6
|	6.2	66.0	7.8
|	3.1	55.6	10.4
V	1.3	45.2	10.4

Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	0.2
Coarse Sand	0.0
Medium Sand	0.0
Fine Sand	0.2
Silt	33.7
Clay	66.0

Preparation Method: **D2217**
Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR2-CA-092409**

Lab Sample ID: 700-41707-1
Client Matrix: Solid
% Moisture: 30.9

Date Sampled: 09/24/2009 1334
Date Received: 09/25/2009 1630

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74174		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73857		Initial Weight/Volume:	30.0 g
Dilution:	100000			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 1640			Injection Volume:	
Date Prepared:	10/06/2009 0847			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		330000		96000	96000

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	15100	X	30 - 150
Tetrachloro-m-xylene	280	X	30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR2-CB-092409**

Lab Sample ID: 700-41707-3
Client Matrix: Solid
% Moisture: 36.5

Date Sampled: 09/24/2009 1348
Date Received: 09/25/2009 1630

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74174		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73857		Initial Weight/Volume:	30.0 g
Dilution:	100000			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 1712			Injection Volume:	
Date Prepared:	10/06/2009 0847			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		320000		100000	100000

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	22300	X	30 - 150
Tetrachloro-m-xylene	198	X	30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR-CDUP01-092409**

Lab Sample ID: 700-41707-4
Client Matrix: Solid
% Moisture: 36.1

Date Sampled: 09/24/2009 1200
Date Received: 09/25/2009 1630

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74174		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73857		Initial Weight/Volume:	30.0 g
Dilution:	100000			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/16/2009 1742			Injection Volume:	
Date Prepared:	10/06/2009 0847			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		240000		100000	100000

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	843	X	30 - 150
Tetrachloro-m-xylene	198	X	30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR2-CD-092409**

Lab Sample ID: 700-41707-5
Client Matrix: Solid
% Moisture: 46.3

Date Sampled: 09/24/2009 1357
Date Received: 09/25/2009 1630

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74174		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73857		Initial Weight/Volume:	30.0 g
Dilution:	5000			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/15/2009 2223			Injection Volume:	1.0 uL
Date Prepared:	10/06/2009 0847			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		120000		6100	6100

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	10700	X	30 - 150
Tetrachloro-m-xylene	117		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR2-CE-092409**

Lab Sample ID: 700-41707-6
Client Matrix: Solid
% Moisture: 44.2

Date Sampled: 09/24/2009 1410
Date Received: 09/25/2009 1630

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74174		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73857		Initial Weight/Volume:	30.0 g
Dilution:	500			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/14/2009 0508			Injection Volume:	1.0 uL
Date Prepared:	10/06/2009 0847			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		9900		590	590

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	1060	X	30 - 150
Tetrachloro-m-xylene	68		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR2-CF-092409**

Lab Sample ID: 700-41707-7
Client Matrix: Solid
% Moisture: 43.4

Date Sampled: 09/24/2009 1425
Date Received: 09/25/2009 1630

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74174		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73857		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/12/2009 1712			Injection Volume:	1.0 uL
Date Prepared:	10/06/2009 0847			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		250		23	23

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	72		30 - 150
Tetrachloro-m-xylene	27	X	30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR2-CG-092409**

Lab Sample ID: 700-41707-8
Client Matrix: Solid
% Moisture: 40.8

Date Sampled: 09/24/2009 1437
Date Received: 09/25/2009 1630

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74174		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73857		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/12/2009 1743			Injection Volume:	1.0 uL
Date Prepared:	10/06/2009 0847			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		460		22	22

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	79		30 - 150
Tetrachloro-m-xylene	31		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR2-CH-092409**

Lab Sample ID: 700-41707-9
Client Matrix: Solid
% Moisture: 40.9

Date Sampled: 09/24/2009 1446
Date Received: 09/25/2009 1630

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74174		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73857		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/12/2009 1814			Injection Volume:	1.0 uL
Date Prepared:	10/06/2009 0847			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		31		22	22

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	52		30 - 150
Tetrachloro-m-xylene	25	X	30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR2-CI-092409**

Lab Sample ID: 700-41707-10
Client Matrix: Solid
% Moisture: 40.0

Date Sampled: 09/24/2009 1452
Date Received: 09/25/2009 1630

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74174		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73857		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/12/2009 1845			Injection Volume:	1.0 uL
Date Prepared:	10/06/2009 0847			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		22	U	22	22

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	53		30 - 150
Tetrachloro-m-xylene	30		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR2-CJ-092409**

Lab Sample ID: 700-41707-11
Client Matrix: Solid
% Moisture: 41.2

Date Sampled: 09/24/2009 1457
Date Received: 09/25/2009 1630

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74174		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73857		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/12/2009 1916			Injection Volume:	1.0 uL
Date Prepared:	10/06/2009 0847			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		22	U	22	22

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	43		30 - 150
Tetrachloro-m-xylene	26	X	30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR2-CK-092409**

Lab Sample ID: 700-41707-12
Client Matrix: Solid
% Moisture: 40.9

Date Sampled: 09/24/2009 1501
Date Received: 09/25/2009 1630

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74174		Instrument ID:	SGZ
Preparation:	3550B	Prep Batch: 700-73857		Initial Weight/Volume:	30.0 g
Dilution:	20			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/12/2009 1948			Injection Volume:	1.0 uL
Date Prepared:	10/06/2009 0847			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		22	U	22	22

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	43		30 - 150
Tetrachloro-m-xylene	33		30 - 150

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR-CEB02-092509**

Lab Sample ID: 700-41707-18
Client Matrix: Water

Date Sampled: 09/25/2009 0845
Date Received: 09/25/2009 1630

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74329		Instrument ID:	SGY
Preparation:	3520C	Prep Batch: 700-73729		Initial Weight/Volume:	1000 mL
Dilution:	5.0			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/19/2009 1859			Injection Volume:	
Date Prepared:	10/01/2009 1830			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDT	0.10	U	0.0084	0.10
4,4'-DDE	0.10	U	0.0064	0.10
4,4'-DDD	0.10	U	0.0076	0.10
2,4'-DDT	0.10	U	0.0084	0.10
2,4'-DDE	0.10	U	0.032	0.10
2,4'-DDD	0.10	U	0.0076	0.10
Hexachlorobenzene	0.050	U	0.011	0.050

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	43		30 - 150
Tetrachloro-m-xylene	*38*		*30 - 150*

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR2-CC-092409**

Lab Sample ID: 700-41707-2
Client Matrix: Solid
% Moisture: 37.2

Date Sampled: 09/24/2009 1345
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74278		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74086		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.0774 g
Date Analyzed:	10/12/2009 1550			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1009				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		23		2.3	3.3

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR2-CD-092409**

Lab Sample ID: 700-41707-5
Client Matrix: Solid
% Moisture: 46.3

Date Sampled: 09/24/2009 1357
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74278		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74086		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.0883 g
Date Analyzed:	10/12/2009 1552			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1009				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		42		2.4	3.4

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR2-CE-092409**

Lab Sample ID: 700-41707-6
Client Matrix: Solid
% Moisture: 44.2

Date Sampled: 09/24/2009 1410
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74278		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74086		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.0312 g
Date Analyzed:	10/12/2009 1424			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1009				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		18		0.32	0.46

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR2-CF-092409**

Lab Sample ID: 700-41707-7
Client Matrix: Solid
% Moisture: 43.4

Date Sampled: 09/24/2009 1425
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74049		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74011		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.48 g
Date Analyzed:	10/08/2009 1700			Final Weight/Volume:	40 mL
Date Prepared:	10/08/2009 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.17		0.021	0.029

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR2-CG-092409**

Lab Sample ID: 700-41707-8
Client Matrix: Solid
% Moisture: 40.8

Date Sampled: 09/24/2009 1437
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74278		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74086		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.0839 g
Date Analyzed:	10/12/2009 1426			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1009				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.38		0.11	0.16

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR2-CH-092409**

Lab Sample ID: 700-41707-9
Client Matrix: Solid
% Moisture: 40.9

Date Sampled: 09/24/2009 1446
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74049		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74011		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Date Analyzed:	10/08/2009 1702			Final Weight/Volume:	40 mL
Date Prepared:	10/08/2009 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.070		0.014	0.020

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR2-CI-092409**

Lab Sample ID: 700-41707-10
Client Matrix: Solid
% Moisture: 40.0

Date Sampled: 09/24/2009 1452
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74278		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74086		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.4394 g
Date Analyzed:	10/12/2009 1431			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1009				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.060		0.021	0.030

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR2-CJ-092409**

Lab Sample ID: 700-41707-11
Client Matrix: Solid
% Moisture: 41.2

Date Sampled: 09/24/2009 1457
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74278		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74086		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.3557 g
Date Analyzed:	10/12/2009 1433			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1009				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.057		0.027	0.038

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR2-CK-092409**

Lab Sample ID: 700-41707-12
Client Matrix: Solid
% Moisture: 40.9

Date Sampled: 09/24/2009 1501
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74278		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74086		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.3210 g
Date Analyzed:	10/12/2009 1435			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1009				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.055		0.030	0.042

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR8-FSA-092409**

Lab Sample ID: 700-41707-13
Client Matrix: Solid
% Moisture: 77.6

Date Sampled: 09/24/2009 1557
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74278		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74086		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.0346 g
Date Analyzed:	10/12/2009 1436			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1009				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		24		0.72	1.0

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR8-FSB-092409**

Lab Sample ID: 700-41707-14
Client Matrix: Solid
% Moisture: 76.4

Date Sampled: 09/24/2009 1601
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74278		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74086		Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	0.0857 g
Date Analyzed:	10/12/2009 1540			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1009				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		26		1.4	2.0

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR8-FSC-092409**

Lab Sample ID: 700-41707-15
Client Matrix: Solid
% Moisture: 72.4

Date Sampled: 09/24/2009 1607
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74278		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74086		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.0970 g
Date Analyzed:	10/12/2009 1554			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1009				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		26		4.2	6.0

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR8-FSD-092409**

Lab Sample ID: 700-41707-16
Client Matrix: Solid
% Moisture: 68.1

Date Sampled: 09/24/2009 1611
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74278		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74086		Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	0.0751 g
Date Analyzed:	10/12/2009 1542			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1009				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		18		1.2	1.7

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR8-FSE-092409**

Lab Sample ID: 700-41707-17
Client Matrix: Solid
% Moisture: 74.1

Date Sampled: 09/24/2009 1617
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74278		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74086		Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	0.1091 g
Date Analyzed:	10/12/2009 1536			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1009				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		15		0.99	1.4

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR-CEB02-092509**

Lab Sample ID: 700-41707-18
Client Matrix: Water

Date Sampled: 09/25/2009 0845
Date Received: 09/25/2009 1630

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 700-73819		Instrument ID:	LEEMAN HYDRA
Preparation:	7470A	Prep Batch: 700-73101		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	09/30/2009 1650			Final Weight/Volume:	40 mL
Date Prepared:	09/30/2009 1529				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	0.00020	U	0.00016	0.00020

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR11-FSA-092509**

Lab Sample ID: 700-41707-19
Client Matrix: Solid
% Moisture: 79.1
Date Sampled: 09/25/2009 0933
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74239		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74127		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.091 g
Date Analyzed:	10/13/2009 1406			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		33		5.9	8.4

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR11-FSB-092509**

Lab Sample ID: 700-41707-20
Client Matrix: Solid
% Moisture: 73.4

Date Sampled: 09/25/2009 0943
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 20
Date Analyzed: 10/13/2009 1412
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74239
Prep Batch: 700-74127

Instrument ID: LEEMAN HYDRA
Lab File ID: N/A
Initial Weight/Volume: 0.061 g
Final Weight/Volume: 40 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		40		6.9	9.9

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR11-FSC-092509**

Lab Sample ID: 700-41707-21
Client Matrix: Solid
% Moisture: 70.0

Date Sampled: 09/25/2009 0949
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74239		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74127		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.076 g
Date Analyzed:	10/13/2009 1414			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		36		4.9	7.0

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR11-FSD-092509**

Lab Sample ID: 700-41707-22
Client Matrix: Solid
% Moisture: 66.3

Date Sampled: 09/25/2009 0953
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74239		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74127		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.048 g
Date Analyzed:	10/13/2009 1426			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		200		6.9	9.9

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR11-FSE-092509**

Lab Sample ID: 700-41707-23
Client Matrix: Solid
% Moisture: 61.0

Date Sampled: 09/25/2009 0959
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74222		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74125		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.063 g
Date Analyzed:	10/13/2009 1112			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		46		4.6	6.5

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR-FSDUP03-092509**

Lab Sample ID: 700-41707-24
Client Matrix: Solid
% Moisture: 60.4

Date Sampled: 09/25/2009 1200
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74222		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74125		Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	0.051 g
Date Analyzed:	10/13/2009 1114			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		23		1.4	2.0

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR12-FSA-092509**

Lab Sample ID: 700-41707-25
Client Matrix: Solid
% Moisture: 84.8
Date Sampled: 09/25/2009 1108
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74222		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74125		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.078 g
Date Analyzed:	10/13/2009 1017			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		12		0.47	0.67

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR12-FSB-092509**

Lab Sample ID: 700-41707-26
Client Matrix: Solid
% Moisture: 78.4
Date Sampled: 09/25/2009 1155
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74222		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74125		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.047 g
Date Analyzed:	10/13/2009 1019			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		17		0.55	0.79

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR12-FSC-092509**

Lab Sample ID: 700-41707-27
Client Matrix: Solid
% Moisture: 77.4

Date Sampled: 09/25/2009 1119
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74239		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74127		Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	0.090 g
Date Analyzed:	10/13/2009 1424			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		19		1.4	2.0

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR12-FSD-092509**

Lab Sample ID: 700-41707-28
Client Matrix: Solid
% Moisture: 73.7

Date Sampled: 09/25/2009 1124
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74239		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74127		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.059 g
Date Analyzed:	10/13/2009 1422			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		67		7.2	10

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Client Sample ID: **SDCR12-FSE-092509**

Lab Sample ID: 700-41707-29
Client Matrix: Solid
% Moisture: 66.7

Date Sampled: 09/25/2009 1130
Date Received: 09/25/2009 1630

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74222		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74125		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.0658 g
Date Analyzed:	10/13/2009 1007			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.38		0.26	0.37

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

General Chemistry

Client Sample ID: **SDCR2-CA-092409**

Lab Sample ID: 700-41707-1

Client Matrix: Solid

Date Sampled: 09/24/2009 1334

Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	31		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N
Percent Solids	69		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

General Chemistry

Client Sample ID: **SDCR2-CC-092409**

Lab Sample ID: 700-41707-2

Client Matrix: Solid

Date Sampled: 09/24/2009 1345

Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	37		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N
Percent Solids	63		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

General Chemistry

Client Sample ID: **SDCR2-CB-092409**

Lab Sample ID: 700-41707-3

Client Matrix: Solid

Date Sampled: 09/24/2009 1348

Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	36		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N
Percent Solids	64		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

General Chemistry

Client Sample ID: **SDCR-CDUP01-092409**

Lab Sample ID: 700-41707-4

Client Matrix: Solid

Date Sampled: 09/24/2009 1200

Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	36		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N
Percent Solids	64		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73798	Date Analyzed: 10/02/2009 1445						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

General Chemistry

Client Sample ID: **SDCR2-CD-092409**

Lab Sample ID: 700-41707-5

Client Matrix: Solid

Date Sampled: 09/24/2009 1357

Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	46		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N
Percent Solids	54		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

General Chemistry

Client Sample ID: **SDCR2-CE-092409**

Lab Sample ID: 700-41707-6

Client Matrix: Solid

Date Sampled: 09/24/2009 1410

Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	44		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N
Percent Solids	56		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

General Chemistry

Client Sample ID: **SDCR2-CF-092409**

Lab Sample ID: 700-41707-7

Client Matrix: Solid

Date Sampled: 09/24/2009 1425

Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	43		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N
Percent Solids	57		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

General Chemistry

Client Sample ID: **SDCR2-CG-092409**

Lab Sample ID: 700-41707-8

Client Matrix: Solid

Date Sampled: 09/24/2009 1437

Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	41		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N
Percent Solids	59		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

General Chemistry

Client Sample ID: **SDCR2-CH-092409**

Lab Sample ID: 700-41707-9

Client Matrix: Solid

Date Sampled: 09/24/2009 1446

Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	41		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N
Percent Solids	59		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

General Chemistry

Client Sample ID: **SDCR2-CI-092409**

Lab Sample ID: 700-41707-10

Client Matrix: Solid

Date Sampled: 09/24/2009 1452

Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	40		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N
Percent Solids	60		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

General Chemistry

Client Sample ID: **SDCR2-CJ-092409**

Lab Sample ID: 700-41707-11

Client Matrix: Solid

Date Sampled: 09/24/2009 1457

Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	41		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N
Percent Solids	59		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

General Chemistry

Client Sample ID: **SDCR2-CK-092409**

Lab Sample ID: 700-41707-12

Client Matrix: Solid

Date Sampled: 09/24/2009 1501

Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	41		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N
Percent Solids	59		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR8-FSA-092409**

Lab Sample ID: 700-41707-13
Client Matrix: Solid

Date Sampled: 09/24/2009 1557
Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	23000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/01/2009 1003						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	78		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N
Percent Solids	22		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR8-FSB-092409**

Lab Sample ID: 700-41707-14
Client Matrix: Solid

Date Sampled: 09/24/2009 1601
Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	21000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/01/2009 1003						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	76		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N
Percent Solids	24		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR8-FSC-092409**

Lab Sample ID: 700-41707-15
Client Matrix: Solid

Date Sampled: 09/24/2009 1607
Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	22000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/01/2009 1003						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	72		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N
Percent Solids	28		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR8-FSD-092409**

Lab Sample ID: 700-41707-16
Client Matrix: Solid

Date Sampled: 09/24/2009 1611
Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	20000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/01/2009 1003						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	68		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N
Percent Solids	32		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR8-FSE-092409**

Lab Sample ID: 700-41707-17
Client Matrix: Solid

Date Sampled: 09/24/2009 1617
Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	19000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/01/2009 1003						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	74		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N
Percent Solids	26		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR11-FSA-092509**

Lab Sample ID: 700-41707-19
Client Matrix: Solid

Date Sampled: 09/25/2009 0933
Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	31000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/05/2009 1045						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	79		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N
Percent Solids	21		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N

General Chemistry

Client Sample ID: SDCR11-FSB-092509

Lab Sample ID: 700-41707-20
Client Matrix: Solid

Date Sampled: 09/25/2009 0943
Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	25000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/05/2009 1045						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	73		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N
Percent Solids	27		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR11-FSC-092509**

Lab Sample ID: 700-41707-21
Client Matrix: Solid

Date Sampled: 09/25/2009 0949
Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	24000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/05/2009 1045						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	70		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N
Percent Solids	30		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73663	Date Analyzed: 09/30/2009 1530						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR11-FSD-092509**

Lab Sample ID: 700-41707-22
Client Matrix: Solid

Date Sampled: 09/25/2009 0953
Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	16000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-74065	Date Analyzed: 10/08/2009 0951						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	66		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73722	Date Analyzed: 10/01/2009 1435						DryWt Corrected: N
Percent Solids	34		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73722	Date Analyzed: 10/01/2009 1435						DryWt Corrected: N

General Chemistry

Client Sample ID: SDCR11-FSE-092509

Lab Sample ID: 700-41707-23
Client Matrix: Solid

Date Sampled: 09/25/2009 0959
Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	18000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-74065	Date Analyzed: 10/08/2009 0951						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	61		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73722	Date Analyzed: 10/01/2009 1435						DryWt Corrected: N
Percent Solids	39		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73722	Date Analyzed: 10/01/2009 1435						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR-FSDUP03-092509**

Lab Sample ID: 700-41707-24
Client Matrix: Solid

Date Sampled: 09/25/2009 1200
Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	19000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-74065	Date Analyzed: 10/08/2009 0951						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	60		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73722	Date Analyzed: 10/01/2009 1435						DryWt Corrected: N
Percent Solids	40		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73722	Date Analyzed: 10/01/2009 1435						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR12-FSA-092509**

Lab Sample ID: 700-41707-25
Client Matrix: Solid

Date Sampled: 09/25/2009 1108
Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	38000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-74065	Date Analyzed: 10/08/2009 0951						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	85		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73722	Date Analyzed: 10/01/2009 1435						DryWt Corrected: N
Percent Solids	15		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73722	Date Analyzed: 10/01/2009 1435						DryWt Corrected: N

General Chemistry

Client Sample ID: SDCR12-FSB-092509

Lab Sample ID: 700-41707-26
Client Matrix: Solid

Date Sampled: 09/25/2009 1155
Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	34000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-74065	Date Analyzed: 10/08/2009 0951						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	78		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73722	Date Analyzed: 10/01/2009 1435						DryWt Corrected: N
Percent Solids	22		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73722	Date Analyzed: 10/01/2009 1435						DryWt Corrected: N

General Chemistry

Client Sample ID: SDCR12-FSC-092509

Lab Sample ID: 700-41707-27

Client Matrix: Solid

Date Sampled: 09/25/2009 1119

Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	33000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-74065	Date Analyzed: 10/08/2009 0951						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	77		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73722	Date Analyzed: 10/01/2009 1435						DryWt Corrected: N
Percent Solids	23		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73722	Date Analyzed: 10/01/2009 1435						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR12-FSD-092509**

Lab Sample ID: 700-41707-28
Client Matrix: Solid

Date Sampled: 09/25/2009 1124
Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	27000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-74065	Date Analyzed: 10/08/2009 0951						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	74		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73722	Date Analyzed: 10/01/2009 1435						DryWt Corrected: N
Percent Solids	26		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73722	Date Analyzed: 10/01/2009 1435						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR12-FSE-092509**

Lab Sample ID: 700-41707-29

Client Matrix: Solid

Date Sampled: 09/25/2009 1130

Date Received: 09/25/2009 1630

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	21000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-74065	Date Analyzed: 10/08/2009 0951						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	67		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73722	Date Analyzed: 10/01/2009 1435						DryWt Corrected: N
Percent Solids	33		%	0.10	0.10	1.0	2540G
Analysis Batch: 700-73722	Date Analyzed: 10/01/2009 1435						DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Lab Section	Qualifier	Description
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	X	Surrogate exceeds the control limits
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Method Blank - Batch: 700-73729

Method: 8081A
Preparation: 3520C

Lab Sample ID: MB 700-73729/1-A
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 10/10/2009 0010
Date Prepared: 10/01/2009 1830

Analysis Batch: 700-74329
Prep Batch: 700-73729
Units: ug/L

Instrument ID: MSGY
Lab File ID: Y100925.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDT	0.10	U	0.0084	0.10
4,4'-DDE	0.10	U	0.0064	0.10
4,4'-DDD	0.10	U	0.0076	0.10
2,4'-DDT	0.10	U	0.0084	0.10
2,4'-DDE	0.10	U	0.032	0.10
2,4'-DDD	0.10	U	0.0076	0.10
Hexachlorobenzene	0.050	U	0.011	0.050

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	42	30 - 150
Tetrachloro-m-xylene	82	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-73729

Method: 8081A
Preparation: 3520C

LCS Lab Sample ID: LCS 700-73729/2-A
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 10/15/2009 1436
Date Prepared: 10/01/2009 1830

Analysis Batch: 700-74329
Prep Batch: 700-73729
Units: ug/L

Instrument ID: MSGY
Lab File ID: Y101510.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 700-73729/3-A
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 10/15/2009 1508
Date Prepared: 10/01/2009 1830

Analysis Batch: 700-74329
Prep Batch: 700-73729
Units: ug/L

Instrument ID: MSGY
Lab File ID: Y101511.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4,4'-DDT	106	106	37 - 150	0	30		
4,4'-DDE	90	80	44 - 130	12	30		
4,4'-DDD	110	101	49 - 140	9	39		
Hexachlorobenzene	71	54	25 - 130	28	33		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	46	53	30 - 150
Tetrachloro-m-xylene	58	44	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Method Blank - Batch: 700-73857

Method: 8081A
Preparation: 3550B

Lab Sample ID: MB 700-73857/1-A
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 10/10/2009 0056
Date Prepared: 10/06/2009 0847

Analysis Batch: 700-74174
Prep Batch: 700-73857
Units: ug/Kg

Instrument ID: SGZ
Lab File ID: Z100929.D
Initial Weight/Volume: 30.0 g
Final Weight/Volume: 5.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Hexachlorobenzene	3.3	U	3.3	3.3

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	82	30 - 150
Tetrachloro-m-xylene	68	30 - 150

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-73857

Method: 8081A
Preparation: 3550B

LCS Lab Sample ID: LCS 700-73857/2-A
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 10/09/2009 2354
Date Prepared: 10/06/2009 0847

Analysis Batch: 700-74174
Prep Batch: 700-73857
Units: ug/Kg

Instrument ID: SGZ
Lab File ID: Z100927.D
Initial Weight/Volume: 30.0 g
Final Weight/Volume: 5.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 700-73857/3-A
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 10/10/2009 0025
Date Prepared: 10/06/2009 0847

Analysis Batch: 700-74174
Prep Batch: 700-73857
Units: ug/Kg

Instrument ID: SGZ
Lab File ID: Z100928.D
Initial Weight/Volume: 30.0 g
Final Weight/Volume: 5.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Hexachlorobenzene	45	53		15			

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	55	53	30 - 150
Tetrachloro-m-xylene	40	49	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Method Blank - Batch: 700-73101

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 700-73098/1-B
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/30/2009 1559
Date Prepared: 09/18/2009 1700

Analysis Batch: 700-73819
Prep Batch: 700-73101
Units: mg/L

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.00020	U	0.00016	0.00020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-73101

Method: 7470A
Preparation: 7470A

LCS Lab Sample ID: LCS 700-73098/2-B
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/30/2009 1601
Date Prepared: 09/18/2009 1700

Analysis Batch: 700-73819
Prep Batch: 700-73101
Units: mg/L

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-73098/3-B
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/30/2009 1603
Date Prepared: 09/18/2009 1700

Analysis Batch: 700-73819
Prep Batch: 700-73101
Units: mg/L

Instrument ID: LEEMAN HYDRA AA HG
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	94	96	80 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Method Blank - Batch: 700-74011

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74011/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2009 1630
Date Prepared: 10/08/2009 1200

Analysis Batch: 700-74049
Prep Batch: 700-74011
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74011

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-74011/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2009 1632
Date Prepared: 10/08/2009 1200

Analysis Batch: 700-74049
Prep Batch: 700-74011
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-74011/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2009 1633
Date Prepared: 10/08/2009 1200

Analysis Batch: 700-74049
Prep Batch: 700-74011
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	94	93	80 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Method Blank - Batch: 700-74086

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74086/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/12/2009 1408
Date Prepared: 10/12/2009 1009

Analysis Batch: 700-74278
Prep Batch: 700-74086
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74086

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-74086/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/12/2009 1409
Date Prepared: 10/12/2009 1009

Analysis Batch: 700-74278
Prep Batch: 700-74086
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-74086/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/12/2009 1411
Date Prepared: 10/12/2009 1009

Analysis Batch: 700-74278
Prep Batch: 700-74086
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	85	82	80 - 120	3	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-74086

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	700-41707-17	Analysis Batch: 700-74278	Instrument ID: LEEMAN HYDRA AA
Client Matrix:	Solid	Prep Batch: 700-74086	Lab File ID: N/A
Dilution:	5.0		Initial Weight/Volume: 0.1024 g
Date Analyzed:	10/15/2009 1536		Final Weight/Volume: 40 mL
Date Prepared:	10/12/2009 1009		

MSD Lab Sample ID:	700-41707-17	Analysis Batch: 700-74278	Instrument ID: LEEMAN HYDRA AA HG4(
Client Matrix:	Solid	Prep Batch: 700-74086	Lab File ID: N/A
Dilution:	5.0		Initial Weight/Volume: 0.0990 g
Date Analyzed:	10/15/2009 1538		Final Weight/Volume: 40 mL
Date Prepared:	10/12/2009 1009		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	214	204	80 - 120	0	20	F	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Method Blank - Batch: 700-74125

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74125/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1002
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74222
Prep Batch: 700-74125
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74125

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-74125/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1004
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74222
Prep Batch: 700-74125
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-74125/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1005
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74222
Prep Batch: 700-74125
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	91	92	80 - 120	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-74125

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	700-41707-29	Analysis Batch: 700-74222	Instrument ID: LEEMAN HYDRA AA
Client Matrix:	Solid	Prep Batch: 700-74125	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.0610 g
Date Analyzed:	10/13/2009 1009		Final Weight/Volume: 40 mL
Date Prepared:	10/12/2009 1800		

MSD Lab Sample ID:	700-41707-29	Analysis Batch: 700-74222	Instrument ID: LEEMAN HYDRA AA HG4(
Client Matrix:	Solid	Prep Batch: 700-74125	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.0613 g
Date Analyzed:	10/13/2009 1011		Final Weight/Volume: 40 mL
Date Prepared:	10/12/2009 1800		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	103	99	80 - 120	4	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Method Blank - Batch: 700-74127

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74127/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1152
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74239
Prep Batch: 700-74127
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74127

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 700-74127/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1154
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74239
Prep Batch: 700-74127
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-74127/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1155
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74239
Prep Batch: 700-74127
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	96	97	80 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Method Blank - Batch: 700-73802

Method: Lloyd Kahn -TOC
Preparation: N/A

Lab Sample ID: MB 700-73802/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/01/2009 1003
Date Prepared: N/A

Analysis Batch: 700-73802
Prep Batch: N/A
Units: mg/Kg

Instrument ID: Shimadzu TOC soil Analyz
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Total Organic Carbon	2000	U	420	2000

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-73802

Method: Lloyd Kahn -TOC
Preparation: N/A

LCS Lab Sample ID: LCS 700-73802/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/01/2009 1003
Date Prepared: N/A

Analysis Batch: 700-73802
Prep Batch: N/A
Units: mg/Kg

Instrument ID: Shimadzu TOC soil Analyz
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 700-73802/24
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/05/2009 1045
Date Prepared: N/A

Analysis Batch: 700-73802
Prep Batch: N/A
Units: mg/Kg

Instrument ID: Shimadzu TOC soil Analy
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon	104	102	80 - 120	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41707-1

Method Blank - Batch: 700-74065

Method: Lloyd Kahn -TOC
Preparation: N/A

Lab Sample ID: MB 700-74065/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2009 0951
Date Prepared: N/A

Analysis Batch: 700-74065
Prep Batch: N/A
Units: mg/Kg

Instrument ID: Shimadzu TOC soil Analyz
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Total Organic Carbon	2000	U	420	2000

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-74065

Method: Lloyd Kahn -TOC
Preparation: N/A

LCS Lab Sample ID: LCS 700-74065/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2009 0951
Date Prepared: N/A

Analysis Batch: 700-74065
Prep Batch: N/A
Units: mg/Kg

Instrument ID: Shimadzu TOC soil Analyz
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 700-74065/11
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2009 0951
Date Prepared: N/A

Analysis Batch: 700-74065
Prep Batch: N/A
Units: mg/Kg

Instrument ID: Shimadzu TOC soil Analy
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon	104	102	80 - 120	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number

Sediment - coarse

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Mobile, AL 36693
www.testamericainc.com
Phone: (251) 666-6633
Fax: (251) 666-6696

Alternate Laboratory Name/Location:
Phone:
Fax:

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Glenn McIntosh OMZ	PROJECT NO.: 6107090036	PROJECT LOCATION (STATE): AL
(LAB) PROJECT MANAGER: Charles Newton	P. O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: Keith Roberts	CLIENT PHONE: 423.336.4388	CLIENT FAX: 423.336.4166
CLIENT NAME: Keith Roberts, dwn	CLIENT EMAIL: kdroberts@dwn.com	
CLIENT ADDRESS: 3855 North Ocoee St. Cleveland TN 37312		
COMPANY CONTRACTING THIS WORK (if applicable): MACTEC	SAMPLER'S SIGNATURE: [signature]	

PAGE 1 OF 3

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	THg (7471)	TOC (9060)	Density (SM2710C)	Grain Size (D422)	HCB (8270C)	DDTR (8081A)						REMARKS
								ice	ice	ice	ice	ice	ice						
09/24/09	13:34	SDCR2-CA-092409	G		X					X	X	X							
9/24/09	13:45	SDCR2-CC-092409	G		X			X											
9/24/09	13:48	SDCR2-CB-092409	G		X					X	X	X							
9/24/09	12:00	SDCR-CDUP01-092409	G		X							X							
9/24/09	13:57	~~SDCR2-CD~~ SDCR2-CD-092409	G		X			X		X	X	X							
9/24/09	14:10	SDCR2-CE-092409	G		X			X		X	X	X							
9/24/09	14:25	SDCR2-CF-092409	G		X			X		X	X	X							
9/24/09	14:37	SDCR2-CG-092409	G		X			X		X	X	X							
9/24/09	14:46	SDCR2-CH-092409	G		X			X		X	X	X							
9/24/09	14:52	SDCR2-CI-092409	G		X			X		X	X	X							
9/24/09	14:57	SDCR2-CJ-092409	G		X			X		X	X	X							
9/24/09	15:01	SDCR2-CK-092409	G		X			X		X	X	X							

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9/25/09	15:20	[signature]	9/25/09	16:30			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]	9/25/09	15:20	[signature]	9/25/09	1630			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
[signature]	9/25/09	16:30	YES ○ NO ○		700-91700	1.4°C 2TA014 2.3°C

Original - Return to Laboratory with Sample(s)

Page 117 of 119

10/29/2009

Serial Number

Sediment

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www.testamericainc.com
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Fax: (251) 666-6696

Alternate Laboratory Name/Location:
Phone:
Fax:

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Olin Meadowlands	61070900386	NJ

(LAB) PROJECT MANAGER	P. O. NUMBER	CONTRACT NO.
Charles Newton		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Keith Roberts	423.336.4388	423.336.4166

CLIENT NAME	CLIENT EMAIL
Keith Roberts, Olin	kdroberts@olin.com

CLIENT ADDRESS: 3855 N Ocoee St Cleveland TN 37312

COMPANY CONTRACTING THIS WORK (if applicable): MACTEC

SAMPLER'S SIGNATURE: [signature]

PAGE 2 OF 3

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	7470/7471 Hg	TOC (9060)	Density (SW1270C) Grain Size (D422)	HCB (8270C)	DDTR (8081)						REMARKS
								HNO3 ice	ice	ice	ice	ice	ice					
9/24/09	15:57	SDCR8-FSA-092409	G		X			X	X									
9/24/09	16:01	SDCR8-FSB-092409	G		X			X	X									
9/24/09	16:07	SDCR8-FSC-092409	G		X			X	X									
9/24/09	16:11	SDCR8-FSD-092409	G		X			X	X									
9/24/09	16:17	SDCR8-FSE-092409	G		X			X	X									
9/24/09	16:17	SDCR8-FSE-092409 MS/MSD	G		X			X	X									
9/25/09	08:45	SDCR-CEB02-092509	G	X				X			X	X						
9/25/09	09:33	SDCR11-FSA-092509	G		X			X	X									
9/25/09	09:43	SDCR11-FSB-092509	G		X			X	X									
9/25/09	09:49	SDCR11-FSC-092509	G		X			X	X									
9/25/09	9:53	SDCR11-FSD-092509	G		X			X	X									
9/25/09	9:59	SDCR11-FSE-092509	G		X			X	X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9-25-09	15:20	[signature]	9/25/09	16:30			

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]	9/25/09	15:20	[signature]	9/25/09	1630			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES / NO	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
[signature]	9/25/09	16:30			700-41707	1.4°C LAT014

2.8°C

Original - Return to Laboratory with Sample(s)

10/29/2009

Serial Number

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Fax: (251) 666-6696

Alternate Laboratory Name/Location:
Phone:
Fax:

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Olin McIntosh OU-2	PROJECT NO.: 6107090036	PROJECT LOCATION (STATE): AL
(LAB) PROJECT MANAGER: Charles Newton	P. O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: Keith Roberts	CLIENT PHONE: 423.336.4388	CLIENT FAX: 423.336.4166
CLIENT NAME: Olin Corporation	CLIENT EMAIL: kdroberts@olin.com	
CLIENT ADDRESS: 3855 N Ocoee St Cleveland TN 37312		
COMPANY CONTRACTING THIS WORK (if applicable): MACTEC	SAMPLER'S SIGNATURE: [signature]	

PAGE 3 OF 3

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	Hg (7471)	TOC (9060)	Dioxins	Furans	HCB (8270C)	DDT/E (8081A)					REMARKS
								ice	ice	ice	ice	ice	ice					
9/25/09	12:00	SDCR-FSDUP03-092509	G		X			X	X									
9/25/09	11:08	SDCR12FSA-092509	G		X			X	X									
9/25/09	11:15	SDCR12-FSB-092509	G		X			X	X									
9/25/09	11:19	SDCR12-FSC-092509	G		X			X	X									
9/25/09	11:24	SDCR12-FSD-092509	G		X			X	X									
9/25/09	11:30	SDCR12-FSE-092509	G		X			X	X									
9/25/09	11:30	SDCR12-FSE-092509 (MS/MSD)	G		X			X	X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9-25-09	15:20	[signature]	9/25/09	1630			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]	9/25/09	15:20	[signature]	9/25/09	1630			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
[signature]	9/25/09	1630	YES ○ NO ○		700-41707	1.4°C 2.8°C

Original - Return to Laboratory with Sample(s)

10/29/2009

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 700-41685-1

Job Description: Olin McIntosh OU-2 6107090036

For:
MACTEC Engineering and Consulting Inc
3200 Town Point Drive Northwest
Suite 100
Kennesaw, GA 30144

Attention: Mr. David Knaub

Approved for release.
Amanda Catrett
Project Manager I
10/29/2009 4:57 PM

Amanda Catrett
Project Manager I
amanda.catrett@testamericainc.com
10/29/2009

cc: Cynthia Draper
Heidi Fogell

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
700-41685-2	**SDCR2-FSA-092309**					
Mercury		2.5		0.18	mg/Kg	7471A
Total Organic Carbon		3300		2000	mg/Kg	Lloyd Kahn -TOC
Percent Moisture		27		0.10	%	Moisture
Percent Solids		73		0.10	%	Moisture
700-41685-3	**SDCR2-FSB-092309**					
Mercury		7.7		0.57	mg/Kg	7471A
Total Organic Carbon		1600	J	2000	mg/Kg	Lloyd Kahn -TOC
Percent Moisture		23		0.10	%	Moisture
Percent Solids		77		0.10	%	Moisture
700-41685-4	**SDCR2-FSC-092309**					
Mercury		28		1.5	mg/Kg	7471A
Total Organic Carbon		5900		2000	mg/Kg	Lloyd Kahn -TOC
Percent Moisture		33		0.10	%	Moisture
Percent Solids		67		0.10	%	Moisture
700-41685-5	**SDCR2-FSD-092309**					
Mercury		24		4.9	mg/Kg	7471A
Total Organic Carbon		3100		2000	mg/Kg	Lloyd Kahn -TOC
Percent Moisture		37		0.10	%	Moisture
Percent Solids		63		0.10	%	Moisture
700-41685-6	**SDCR2-FSE-092309**					
Mercury		15		4.4	mg/Kg	7471A
Total Organic Carbon		2500		2000	mg/Kg	Lloyd Kahn -TOC
Percent Moisture		30		0.10	%	Moisture
Percent Solids		70		0.10	%	Moisture
700-41685-7FD	**SDCR-FSDUP01-092309**					
Mercury		16		1.6	mg/Kg	7471A
Total Organic Carbon		1700	J	2000	mg/Kg	Lloyd Kahn -TOC
Percent Moisture		30		0.10	%	Moisture
Percent Solids		70		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
700-41685-8	**SDCR3-FSA-092309**				
Mercury		29	5.9	mg/Kg	7471A
Total Organic Carbon		14000	2000	mg/Kg	Lloyd Kahn -TOC
Percent Moisture		67	0.10	%	Moisture
Percent Solids		33	0.10	%	Moisture
700-41685-9	**SDCR3-FSB-092309**				
Mercury		110	4.2	mg/Kg	7471A
Total Organic Carbon		14000	2000	mg/Kg	Lloyd Kahn -TOC
Percent Moisture		58	0.10	%	Moisture
Percent Solids		42	0.10	%	Moisture
700-41685-10	**SDCR3-FSC-092309**				
Mercury		0.41	0.30	mg/Kg	7471A
Total Organic Carbon		9000	2000	mg/Kg	Lloyd Kahn -TOC
Percent Moisture		61	0.10	%	Moisture
Percent Solids		39	0.10	%	Moisture
700-41685-11	**SDCR3-FSD-092309**				
Mercury		30	7.7	mg/Kg	7471A
Total Organic Carbon		14000	2000	mg/Kg	Lloyd Kahn -TOC
Percent Moisture		60	0.10	%	Moisture
Percent Solids		40	0.10	%	Moisture
700-41685-12	**SDCR3-FSE-092309**				
Mercury		0.37	0.27	mg/Kg	7471A
Total Organic Carbon		13000	2000	mg/Kg	Lloyd Kahn -TOC
Percent Moisture		54	0.10	%	Moisture
Percent Solids		46	0.10	%	Moisture
700-41685-13FD	**SDCR-FSDUP02-092309**				
Mercury		23	4.7	mg/Kg	7471A
Total Organic Carbon		15000	2000	mg/Kg	Lloyd Kahn -TOC
Percent Moisture		58	0.10	%	Moisture
Percent Solids		42	0.10	%	Moisture

METHOD SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Mercury (CVAA)	TAL MOB	SW846 7471A	
Preparation, Mercury	TAL MOB		SW846 7471A
Lloyd Kahn	TAL MOB	EPA-02 Lloyd Kahn -TOC	
Percent Moisture	TAL MOB	EPA Moisture	
Matrix Water			
Organochlorine Pesticides (GC)	TAL MOB	SW846 8081A	
Liquid-Liquid Extraction (Continuous)	TAL MOB		SW846 3520C
Mercury (CVAA)	TAL MOB	SW846 7470A	
Preparation, Mercury	TAL MOB		SW846 7470A

Lab References:

TAL MOB = TestAmerica Mobile

Method References:

EPA = US Environmental Protection Agency

EPA-02 = "Compendium Of Methods For The Determination Of Toxic Organic Compounds In Ambient Air", EPA-625/R-96/010B, January 1999.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Method	Analyst	Analyst ID
SW846 8081A	Pel, Mya B	MBP
SW846 7470A	Mathews, Robert	RDM
SW846 7471A	Mathews, Robert	RDM
EPA-02 Lloyd Kahn -TOC	Gordon, Jonathan M	JMG
EPA Moisture	Norvang, Vanyda A	VAN

SAMPLE SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
700-41685-1EB	SDCR-FSEB01-092309	Water	09/23/2009 0900	09/24/2009 1540
700-41685-2	SDCR2-FSA-092309	Solid	09/23/2009 1320	09/24/2009 1540
700-41685-3	SDCR2-FSB-092309	Solid	09/23/2009 1322	09/24/2009 1540
700-41685-4	SDCR2-FSC-092309	Solid	09/23/2009 1326	09/24/2009 1540
700-41685-5	SDCR2-FSD-092309	Solid	09/23/2009 1332	09/24/2009 1540
700-41685-6	SDCR2-FSE-092309	Solid	09/23/2009 1340	09/24/2009 1540
700-41685-7FD	SDCR-FSDUP01-092309	Solid	09/23/2009 1200	09/24/2009 1540
700-41685-8	SDCR3-FSA-092309	Solid	09/23/2009 1557	09/24/2009 1540
700-41685-9	SDCR3-FSB-092309	Solid	09/23/2009 1606	09/24/2009 1540
700-41685-10	SDCR3-FSC-092309	Solid	09/23/2009 1608	09/24/2009 1540
700-41685-11	SDCR3-FSD-092309	Solid	09/23/2009 1615	09/24/2009 1540
700-41685-12	SDCR3-FSE-092309	Solid	09/23/2009 1623	09/24/2009 1540
700-41685-13FD	SDCR-FSDUP02-092309	Solid	09/23/2009 1200	09/24/2009 1540
700-41685-14EB	SDCR-CEB01-092409	Water	09/24/2009 0940	09/24/2009 1540

SAMPLE RESULTS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Client Sample ID: **SDCR-CEB01-092409**

Lab Sample ID: 700-41685-14EB
Client Matrix: Water

Date Sampled: 09/24/2009 0940
Date Received: 09/24/2009 1540

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 700-74329		Instrument ID:	SGY
Preparation:	3520C	Prep Batch: 700-73729		Initial Weight/Volume:	1000 mL
Dilution:	5.0			Final Weight/Volume:	5.0 mL
Date Analyzed:	10/19/2009 1754			Injection Volume:	
Date Prepared:	10/01/2009 1830			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDT	0.10	U	0.0084	0.10
4,4'-DDE	0.10	U	0.0064	0.10
4,4'-DDD	0.10	U	0.0076	0.10
2,4'-DDT	0.10	U	0.0084	0.10
2,4'-DDE	0.10	U	0.032	0.10
2,4'-DDD	0.10	U	0.0076	0.10
Hexachlorobenzene	0.050	U	0.011	0.050

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	42		30 - 150
Tetrachloro-m-xylene	*40*		*30 - 150*

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Client Sample ID: **SDCR-FSEB01-092309**

Lab Sample ID: 700-41685-1EB
Client Matrix: Water

Date Sampled: 09/23/2009 0900
Date Received: 09/24/2009 1540

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 700-73531		Instrument ID:	LEEMAN HYDRA
Preparation:	7470A	Prep Batch: 700-73472		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	09/28/2009 1600			Final Weight/Volume:	40 mL
Date Prepared:	09/26/2009 1400				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	0.00020	U	0.00016	0.00020

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Client Sample ID: **SDCR2-FSA-092309**

Lab Sample ID: 700-41685-2
Client Matrix: Solid
% Moisture: 27.0

Date Sampled: 09/23/2009 1320
Date Received: 09/24/2009 1540

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74278		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74086		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.0605 g
Date Analyzed:	10/12/2009 1444			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1009				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		2.5		0.13	0.18

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Client Sample ID: **SDCR2-FSB-092309**

Lab Sample ID: 700-41685-3
Client Matrix: Solid
% Moisture: 23.1

Date Sampled: 09/23/2009 1322
Date Received: 09/24/2009 1540

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74278		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74086		Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	0.0914 g
Date Analyzed:	10/12/2009 1544			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1009				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		7.7		0.40	0.57

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Client Sample ID: **SDCR2-FSC-092309**

Lab Sample ID: 700-41685-4
Client Matrix: Solid
% Moisture: 33.2

Date Sampled: 09/23/2009 1326
Date Received: 09/24/2009 1540

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74278		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74086		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.1622 g
Date Analyzed:	10/12/2009 1556			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1009				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		28		1.0	1.5

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Client Sample ID: **SDCR2-FSD-092309**

Lab Sample ID: 700-41685-5
Client Matrix: Solid
% Moisture: 37.3

Date Sampled: 09/23/2009 1332
Date Received: 09/24/2009 1540

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74278		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74086		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.0526 g
Date Analyzed:	10/12/2009 1558			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1009				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		24		3.4	4.9

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Client Sample ID: **SDCR2-FSE-092309**

Lab Sample ID: 700-41685-6
Client Matrix: Solid
% Moisture: 30.3

Date Sampled: 09/23/2009 1340
Date Received: 09/24/2009 1540

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74278		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74086		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.0523 g
Date Analyzed:	10/12/2009 1600			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1009				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		15		3.1	4.4

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Client Sample ID: **SDCR-FSDUP01-092309**

Lab Sample ID: 700-41685-7FD
Client Matrix: Solid
% Moisture: 30.1

Date Sampled: 09/23/2009 1200
Date Received: 09/24/2009 1540

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 20
Date Analyzed: 10/12/2009 1602
Date Prepared: 10/12/2009 1009

Analysis Batch: 700-74278
Prep Batch: 700-74086

Instrument ID: LEEMAN HYDRA
Lab File ID: N/A
Initial Weight/Volume: 0.1453 g
Final Weight/Volume: 40 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		16		1.1	1.6

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Client Sample ID: **SDCR3-FSA-092309**

Lab Sample ID: 700-41685-8
Client Matrix: Solid
% Moisture: 66.8

Date Sampled: 09/23/2009 1557
Date Received: 09/24/2009 1540

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74278		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74086		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.0819 g
Date Analyzed:	10/12/2009 1603			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1012				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		29		4.1	5.9

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Client Sample ID: **SDCR3-FSB-092309**

Lab Sample ID: 700-41685-9
Client Matrix: Solid
% Moisture: 57.8

Date Sampled: 09/23/2009 1606
Date Received: 09/24/2009 1540

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74278		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74086		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.0903 g
Date Analyzed:	10/12/2009 1606			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1012				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		110		2.9	4.2

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Client Sample ID: **SDCR3-FSC-092309**

Lab Sample ID: 700-41685-10
Client Matrix: Solid
% Moisture: 61.4

Date Sampled: 09/23/2009 1608
Date Received: 09/24/2009 1540

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74222		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74125		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.069 g
Date Analyzed:	10/13/2009 1042			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.41		0.21	0.30

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Client Sample ID: **SDCR3-FSD-092309**

Lab Sample ID: 700-41685-11
Client Matrix: Solid
% Moisture: 60.3

Date Sampled: 09/23/2009 1615
Date Received: 09/24/2009 1540

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74222		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74125		Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	0.052 g
Date Analyzed:	10/13/2009 1120			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		30		5.4	7.7

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Client Sample ID: **SDCR3-FSE-092309**

Lab Sample ID: 700-41685-12
Client Matrix: Solid
% Moisture: 53.8
Date Sampled: 09/23/2009 1623
Date Received: 09/24/2009 1540

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 700-74222		Instrument ID:	LEEMAN HYDRA
Preparation:	7471A	Prep Batch: 700-74125		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.064 g
Date Analyzed:	10/13/2009 1136			Final Weight/Volume:	40 mL
Date Prepared:	10/12/2009 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.37		0.19	0.27

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Client Sample ID: **SDCR-FSDUP02-092309**

Lab Sample ID: 700-41685-13FD
Client Matrix: Solid
% Moisture: 58.5

Date Sampled: 09/23/2009 1200
Date Received: 09/24/2009 1540

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 20
Date Analyzed: 10/13/2009 1404
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74239
Prep Batch: 700-74127

Instrument ID: LEEMAN HYDRA
Lab File ID: N/A
Initial Weight/Volume: 0.082 g
Final Weight/Volume: 40 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		23		3.3	4.7

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Client Sample ID: **SDCR-CEB01-092409**

Lab Sample ID: 700-41685-14EB
Client Matrix: Water

Date Sampled: 09/24/2009 0940
Date Received: 09/24/2009 1540

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 700-73531		Instrument ID:	LEEMAN HYDRA
Preparation:	7470A	Prep Batch: 700-73472		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	40 mL
Date Analyzed:	09/28/2009 1601			Final Weight/Volume:	40 mL
Date Prepared:	09/26/2009 1400				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	0.00020	U	0.00016	0.00020

General Chemistry

Client Sample ID: **SDCR2-FSA-092309**

Lab Sample ID: 700-41685-2
Client Matrix: Solid

Date Sampled: 09/23/2009 1320
Date Received: 09/24/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	3300		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/01/2009 1003						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	27		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N
Percent Solids	73		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR2-FSB-092309**

Lab Sample ID: 700-41685-3
Client Matrix: Solid

Date Sampled: 09/23/2009 1322
Date Received: 09/24/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	1600	J	mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/01/2009 1003						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	23		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N
Percent Solids	77		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR2-FSC-092309**

Lab Sample ID: 700-41685-4
Client Matrix: Solid

Date Sampled: 09/23/2009 1326
Date Received: 09/24/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	5900		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/01/2009 1003						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	33		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N
Percent Solids	67		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR2-FSD-092309**

Lab Sample ID: 700-41685-5
Client Matrix: Solid

Date Sampled: 09/23/2009 1332
Date Received: 09/24/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	3100		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/01/2009 1003						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	37		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N
Percent Solids	63		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR2-FSE-092309**

Lab Sample ID: 700-41685-6
Client Matrix: Solid

Date Sampled: 09/23/2009 1340
Date Received: 09/24/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	2500		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/01/2009 1003						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	30		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N
Percent Solids	70		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR-FSDUP01-092309**

Lab Sample ID: 700-41685-7FD
Client Matrix: Solid

Date Sampled: 09/23/2009 1200
Date Received: 09/24/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	1700	J	mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/01/2009 1003						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	30		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N
Percent Solids	70		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR3-FSA-092309**

Lab Sample ID: 700-41685-8
Client Matrix: Solid

Date Sampled: 09/23/2009 1557
Date Received: 09/24/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	14000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/01/2009 1003						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	67		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N
Percent Solids	33		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N

General Chemistry

Client Sample ID: SDCR3-FSB-092309

Lab Sample ID: 700-41685-9
Client Matrix: Solid

Date Sampled: 09/23/2009 1606
Date Received: 09/24/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	14000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/01/2009 1003						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	58		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N
Percent Solids	42		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR3-FSC-092309**

Lab Sample ID: 700-41685-10
Client Matrix: Solid

Date Sampled: 09/23/2009 1608
Date Received: 09/24/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	9000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/01/2009 1003						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	61		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N
Percent Solids	39		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR3-FSD-092309**

Lab Sample ID: 700-41685-11
Client Matrix: Solid

Date Sampled: 09/23/2009 1615
Date Received: 09/24/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	14000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/01/2009 1003						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	60		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N
Percent Solids	40		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR3-FSE-092309**

Lab Sample ID: 700-41685-12
Client Matrix: Solid

Date Sampled: 09/23/2009 1623
Date Received: 09/24/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	13000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/01/2009 1003						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	54		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N
Percent Solids	46		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N

General Chemistry

Client Sample ID: **SDCR-FSDUP02-092309**

Lab Sample ID: 700-41685-13FD
Client Matrix: Solid

Date Sampled: 09/23/2009 1200
Date Received: 09/24/2009 1540

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon	15000		mg/Kg	420	2000	1.0	Lloyd Kahn
Analysis Batch: 700-73802	Date Analyzed: 10/01/2009 1003						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	58		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N
Percent Solids	42		%	0.10	0.10	1.0	Moisture
Analysis Batch: 700-73655	Date Analyzed: 09/30/2009 1405						DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Lab Section	Qualifier	Description
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
Metals		
	U	Indicates the analyte was analyzed for but not detected.
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Method Blank - Batch: 700-73729

Method: 8081A
Preparation: 3520C

Lab Sample ID: MB 700-73729/1-A
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 10/10/2009 0010
Date Prepared: 10/01/2009 1830

Analysis Batch: 700-74329
Prep Batch: 700-73729
Units: ug/L

Instrument ID: MSGY
Lab File ID: Y100925.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDT	0.10	U	0.0084	0.10
4,4'-DDE	0.10	U	0.0064	0.10
4,4'-DDD	0.10	U	0.0076	0.10
2,4'-DDT	0.10	U	0.0084	0.10
2,4'-DDE	0.10	U	0.032	0.10
2,4'-DDD	0.10	U	0.0076	0.10
Hexachlorobenzene	0.050	U	0.011	0.050

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	42	30 - 150
Tetrachloro-m-xylene	82	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-73729

Method: 8081A
Preparation: 3520C

LCS Lab Sample ID: LCS 700-73729/2-A
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 10/15/2009 1436
Date Prepared: 10/01/2009 1830

Analysis Batch: 700-74329
Prep Batch: 700-73729
Units: ug/L

Instrument ID: MSGY
Lab File ID: Y101510.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 700-73729/3-A
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 10/15/2009 1508
Date Prepared: 10/01/2009 1830

Analysis Batch: 700-74329
Prep Batch: 700-73729
Units: ug/L

Instrument ID: MSGY
Lab File ID: Y101511.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4,4'-DDT	106	106	37 - 150	0	30		
4,4'-DDE	90	80	44 - 130	12	30		
4,4'-DDD	110	101	49 - 140	9	39		
Hexachlorobenzene	71	54	25 - 130	28	33		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	46	53	30 - 150
Tetrachloro-m-xylene	58	44	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Method Blank - Batch: 700-73472

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 700-73472/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/28/2009 1533
Date Prepared: 09/26/2009 1400

Analysis Batch: 700-73531
Prep Batch: 700-73472
Units: mg/L

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.00020	U	0.00016	0.00020

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-73472

Method: 7470A
Preparation: 7470A

LCS Lab Sample ID: LCS 700-73472/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/28/2009 1535
Date Prepared: 09/26/2009 1400

Analysis Batch: 700-73531
Prep Batch: 700-73472
Units: mg/L

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 700-73472/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/28/2009 1536
Date Prepared: 09/26/2009 1400

Analysis Batch: 700-73531
Prep Batch: 700-73472
Units: mg/L

Instrument ID: LEEMAN HYDRA AA HG
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	93	101	80 - 120	8	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Method Blank - Batch: 700-74086

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74086/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/12/2009 1408
Date Prepared: 10/12/2009 1009

Analysis Batch: 700-74278
Prep Batch: 700-74086
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Method Blank - Batch: 700-74125

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74125/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1002
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74222
Prep Batch: 700-74125
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Method Blank - Batch: 700-74127

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 700-74127/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2009 1152
Date Prepared: 10/12/2009 1800

Analysis Batch: 700-74239
Prep Batch: 700-74127
Units: mg/Kg

Instrument ID: LEEMAN HYDRA AA HG4(
Lab File ID: N/A
Initial Weight/Volume: 0.40 g
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.014	0.020

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-41685-1

Method Blank - Batch: 700-73802

Method: Lloyd Kahn -TOC
Preparation: N/A

Lab Sample ID: MB 700-73802/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/01/2009 1003
Date Prepared: N/A

Analysis Batch: 700-73802
Prep Batch: N/A
Units: mg/Kg

Instrument ID: Shimadzu TOC soil Analyz
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Total Organic Carbon	2000	U	420	2000

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-73802

Method: Lloyd Kahn -TOC
Preparation: N/A

LCS Lab Sample ID: LCS 700-73802/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/01/2009 1003
Date Prepared: N/A

Analysis Batch: 700-73802
Prep Batch: N/A
Units: mg/Kg

Instrument ID: Shimadzu TOC soil Analyz
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 700-73802/24
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/05/2009 1045
Date Prepared: N/A

Analysis Batch: 700-73802
Prep Batch: N/A
Units: mg/Kg

Instrument ID: Shimadzu TOC soil Analy
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon	104	102	80 - 120	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number

Sediment

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www.testamericainc.com
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Fax: (251) 666-6696

Alternate Laboratory Name/Location:
Phone:
Fax:

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Olin McIntosh Ok-2	PROJECT NO.: 410709036	PROJECT LOCATION (STATE):
(LAB) PROJECT MANAGER: Charles Newton	P. O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: Keith Roberts	CLIENT PHONE: 423.336.4388	CLIENT FAX: 421.336.4166
CLIENT NAME: Keith Roberts, Olin	CLIENT EMAIL: kdroberts@olin.com	
CLIENT ADDRESS: 3855 N. Ocoee Street Cleveland TN		
COMPANY CONTRACTING THIS WORK (if applicable): MACTEC	SAMPLER'S SIGNATURE: [signature]	

PAGE 2 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	7470/7471 THg	9060 TOC	~~Density~~ (STM D2216)	~~Grain Size~~ (D422)	8270C HCB	8081A DDTR					REMARKS
								ice	ice	ice	ice	ice	ice					
9/23/09	12:00	SDCR-FSDUP02-092309	G		X			X	X									
9/24/09	9:40	SDCR-CEB01-092409	G	X				X				X	X					
9/24/09	—	Temp Blank																

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Ferdinand Maylon	9/24/09	1440	[signature]	9/24/09	15:40			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]	9/24/09	14:40						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
[signature]	9/24/09	15:40			700-41685	3.3°C LIA 017

Original - Return to Laboratory with Sample(s)

10/29/2009

Sediment

Serial Number

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Fax: (251) 666-6696

Alternate Laboratory Name/Location:
Phone:
Fax:

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Olin McIntosh OU-2	410709036	AL

(LAB) PROJECT MANAGER	P. O. NUMBER	CONTRACT NO.
Charles Newton		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Keith Roberts	423.336.4388	423.336.4166

CLIENT NAME	CLIENT EMAIL
Keith Roberts, Olin	kdroberts@olin.com

CLIENT ADDRESS: 3855 N. Ocoee St Cleveland TN 37312

COMPANY CONTRACTING THIS WORK (if applicable)	SAMPLER'S SIGNATURE
MACTEC	[signature]

PAGE 1 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	Thg (7471)	TOC (9060)	Percent Moisture (SM2540C)	Grain Size (D422)	HCBCD (8270C)	DDT (8081)	Thg (7471)				REMARKS
								ice	ice	ice	ice	ice	ice	ice				
9/23/09	09:00	SDCR-FSEB01-092309	G	X										X				
9/23/09	13:20	SDCR2-FSA-092309	G		X			X	X									
9/23/09	13:22	SDCR2-FSB-092309	G		X			X	X									
9/23/09	13:26	SDCR2-FSC-092309	G		X			X	X									
9/23/09	13:32	SDCR2-FSD-092309	G		X			X	X									
9/23/09	13:40	SDCR2-FSE-092309	G		X			X	X									
9/23/09	12:00	SDCR-FSDUP01-092309	G		X			X	X									
9/23/09	15:57	SDCR3-FSA-092309	G		X			X	X									
9/23/09	16:06	SDCR3-FSB-092309	G		X			X	X									
9/23/09	16:08	SDCR3-FSC-092309	G		X			X	X									
9/23/09	16:15	SDCR3-FSD-092309	G		X			X	X									
9/23/09	16:23	SDCR3-FSE-092309	G		X			X	X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Fredrick Mayila	9/24/09	1440	[signature]	9/24/09	15:40			

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]	9/24/09	14:40						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES / NO	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
[signature]	9/24/09	1540			700-41685	3.3°C LTA017

Original - Return to Laboratory with Sample(s)

10/29/2009

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ANALYTICAL REPORT

Job Number: 700-42348-1

Job Description: Olin McIntosh OU-2 6107090036

For:
MACTEC Engineering and Consulting Inc
3200 Town Point Drive Northwest
Suite 100
Kennesaw, GA 30144

Attention: Mr. David Knaub

Approved for release.
Amanda Catrett
Project Manager I
11/5/2009 4:27 PM

Amanda Catrett
Project Manager I
amanda.catrett@testamericainc.com
11/05/2009

cc: Cynthia Draper
Heidi Fogell

Job Narrative
700-42348-1

General Chemistry
Method(s) 9060: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch74983 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. The matix spike/ matrix spike duplicate were also just above the calibration range and there was insufficient sample volume to rerun.

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42348-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
700-42348-7	**SDPW11-0-4-0909**					
Dissolved						
Total Organic Carbon-Dissolved		61	B	1.0	mg/L	9060
700-42348-8	**SDPW11-4-8-0909**					
Dissolved						
Total Organic Carbon-Dissolved		36	B	1.0	mg/L	9060
700-42348-9	**SDPW11-8-18-0909**					
Dissolved						
Total Organic Carbon-Dissolved		48	B	2.0	mg/L	9060
700-42348-10	**SDPW12-0-4-0909**					
Dissolved						
Total Organic Carbon-Dissolved		54	B	1.0	mg/L	9060
700-42348-11	**SDPW12-4-8-0909**					
Dissolved						
Total Organic Carbon-Dissolved		55		1.0	mg/L	9060
700-42348-12	**SDPW12-8-18-0909**					
Dissolved						
Total Organic Carbon-Dissolved		62		1.0	mg/L	9060
700-42348-13	**SDPWDUP01-0-4-0909**					
Dissolved						
Total Organic Carbon-Dissolved		68		1.0	mg/L	9060
700-42348-14	**SDPWDUP01-4-8-0909**					
Dissolved						
Total Organic Carbon-Dissolved		57		1.0	mg/L	9060

EXECUTIVE SUMMARY - Detections

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42348-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
700-42348-15	**SDPWDUP01-8-18-0909**				
Dissolved					
Total Organic Carbon-Dissolved		78	1.0	mg/L	9060

METHOD SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42348-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Organic Carbon, Total (TOC)	TAL MOB	SW846 9060	
Sample Filtration	TAL MOB		FILTRATION

Lab References:

TAL MOB = TestAmerica Mobile

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42348-1

Method	Analyst	Analyst ID
SW846 9060	Bradley, Katie	KB

SAMPLE SUMMARY

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42348-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
700-42348-7	SDPW11-0-4-0909	Water	10/26/2009 0900	10/26/2009 1005
700-42348-8	SDPW11-4-8-0909	Water	10/26/2009 0900	10/26/2009 1005
700-42348-9	SDPW11-8-18-0909	Water	10/26/2009 0900	10/26/2009 1005
700-42348-10	SDPW12-0-4-0909	Water	10/26/2009 0900	10/26/2009 1005
700-42348-11	SDPW12-4-8-0909	Water	10/26/2009 0900	10/26/2009 1005
700-42348-12	SDPW12-8-18-0909	Water	10/26/2009 0900	10/26/2009 1005
700-42348-13	SDPWDUP01-0-4-0909	Water	10/26/2009 0900	10/26/2009 1005
700-42348-14	SDPWDUP01-4-8-0909	Water	10/26/2009 0900	10/26/2009 1005
700-42348-15	SDPWDUP01-8-18-0909	Water	10/26/2009 0900	10/26/2009 1005

SAMPLE RESULTS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42348-1

General Chemistry

Client Sample ID: SDPW11-0-4-0909

Lab Sample ID: 700-42348-7

Client Matrix: Water

Date Sampled: 10/26/2009 0900

Date Received: 10/26/2009 1005

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	61	B	mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74975 Date Analyzed: 10/29/2009 1745

General Chemistry

Client Sample ID: SDPW11-4-8-0909

Lab Sample ID: 700-42348-8
Client Matrix: Water

Date Sampled: 10/26/2009 0900
Date Received: 10/26/2009 1005

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	36	B	mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74975 Date Analyzed: 10/29/2009 1745

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42348-1

General Chemistry

Client Sample ID: SDPW11-8-18-0909

Lab Sample ID: 700-42348-9

Client Matrix: Water

Date Sampled: 10/26/2009 0900

Date Received: 10/26/2009 1005

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	48	B	mg/L	0.34	2.0	2.0	9060

Analysis Batch: 700-74975 Date Analyzed: 10/29/2009 1745

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42348-1

General Chemistry

Client Sample ID: **SDPW12-0-4-0909**

Lab Sample ID: 700-42348-10

Client Matrix: Water

Date Sampled: 10/26/2009 0900

Date Received: 10/26/2009 1005

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	54	B	mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74975 Date Analyzed: 10/29/2009 1745

General Chemistry

Client Sample ID: **SDPW12-4-8-0909**

Lab Sample ID: 700-42348-11
Client Matrix: Water

Date Sampled: 10/26/2009 0900
Date Received: 10/26/2009 1005

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	55		mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74983 Date Analyzed: 10/30/2009 1435

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42348-1

General Chemistry

Client Sample ID: SDPW12-8-18-0909

Lab Sample ID: 700-42348-12
Client Matrix: Water

Date Sampled: 10/26/2009 0900
Date Received: 10/26/2009 1005

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	62		mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74983 Date Analyzed: 10/30/2009 1435

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42348-1

General Chemistry

Client Sample ID: **SDPWDUP01-0-4-0909**

Lab Sample ID: 700-42348-13

Client Matrix: Water

Date Sampled: 10/26/2009 0900

Date Received: 10/26/2009 1005

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	68		mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74983 Date Analyzed: 10/30/2009 1435

General Chemistry

Client Sample ID: **SDPWDUP01-4-8-0909**

Lab Sample ID: 700-42348-14
Client Matrix: Water

Date Sampled: 10/26/2009 0900
Date Received: 10/26/2009 1005

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	57		mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74983 Date Analyzed: 10/30/2009 1435

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42348-1

General Chemistry

Client Sample ID: **SDPWDUP01-8-18-0909**

Lab Sample ID: 700-42348-15

Client Matrix: Water

Date Sampled: 10/26/2009 0900

Date Received: 10/26/2009 1005

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Total Organic Carbon-Dissolved	78		mg/L	0.17	1.0	1.0	9060

Analysis Batch: 700-74983 Date Analyzed: 10/30/2009 1435

DATA REPORTING QUALIFIERS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42348-1

Lab Section	Qualifier	Description
General Chemistry		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42348-1

Method Blank - Batch: 700-74975

Method: 9060
Preparation: N/A

Lab Sample ID: MB 700-74973/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/29/2009 1745
Date Prepared: N/A

Analysis Batch: 700-74975
Prep Batch: N/A
Units: mg/L

Instrument ID: Shimadzu Liquid TOC
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	RL
Total Organic Carbon-Dissolved	0.248	J	0.17	1.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: MACTEC Engineering and Consulting Inc

Job Number: 700-42348-1

Method Blank - Batch: 700-74983

Method: 9060
Preparation: N/A

Lab Sample ID: MB 700-74979/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/30/2009 1435
Date Prepared: N/A

Analysis Batch: 700-74983
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	RL
Total Organic Carbon-Dissolved	1.0	U	0.17	1.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Porewater

Serial Number

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

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www.testamericainc.com
Phone: (251) 666-6633
Fax: (251) 666-6696

Alternate Laboratory Name/Location:
Phone:
Fax:

PROJECT REFERENCE: Olin McIntosh OU-2	PROJECT NO.: 410709 0036	PROJECT LOCATION (STATE): AL
(LAB) PROJECT MANAGER: Charles Newton	P. O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: Keith Roberts	CLIENT PHONE: 423.336.4388	CLIENT FAX: 423.336.4166
CLIENT NAME: Olin Corporation	CLIENT EMAIL: kdroberts@olin.com	
CLIENT ADDRESS: 3855 N. Ocoee St. Cleveland TN 37312		
COMPANY CONTRACTING THIS WORK (If applicable): MACTEC	SAMPLER'S SIGNATURE: [signature]	

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	DOC								REMARKS
								dry ice								
9/25/09	09:11	SDPW11-092509	G		X			X								2 cons
~~9/25/09~~	~~12:00~~	~~SDPWDUP03-092509~~ JBA 9/25/09														~~1 cons~~
9/25/09	10:50	SDPW12-092509	G		X			X								2 cons
9/25/09	12:00	SDPWDUP01-092509	G		X			X								1 cons

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	9/24/09	16:00	[signature]	9/26/09	1656			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]	9/26/09	16:00	[signature]	9/26/09	1656			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	LOG NO.	LABORATORY REMARKS:
[signature]	9/26/09	16:56	YES ○ NO ○	~~700~~	~~HP08~~	700-42348 0°C LHA017 OK 10-26-09

Original - Return to Laboratory with Sample(s)

11/05/2009

Serial Number

TestAmerica
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Mobile

TA Mobile
900 Lakeside Drive
Mobile, AL 36693
www.testamericainc.com
Phone: (251) 666-6633
Fax: (251) 666-6696

Alternate Laboratory Name/Location:
Phone:
Fax:

TAL-8240 (1007)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Olin	PROJECT NO.	PROJECT LOCATION (STATE)
(LAB) PROJECT MANAGER	P. O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME: Mactec	CLIENT EMAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)	SAMPLER'S SIGNATURE: [signature]	

PAGE ___ OF ___

STANDARD REPORT DELIVERY ○
DATE DUE ___
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE ___
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	DOC									REMARKS
								None	PRESERVATIVE								
10-26-09	1615	SDPW11-0-4-0909			X			X									
	1620	SDPW11-4-8-0909			X			X									
	1623	SDPW11-8-18-0909			X			X									
	1630	SDPW12-0-4-0909			X			X									
	1633	SDPW12-4-8-0909			X			X									
	1639	SDPW12-8-18-0909			X			X									
	1655	SDPWDuP01-0-4-0909			X			X									
	1657	SDPWDuP01-4-8-0909			X			X									
	1659	SDPWDuP01-8-18-0909			X			X									
	1505	SDPWDuP02-0-4-0909			X			X									
	1507	SDPWDuP02-4-8-0909			X			X									
	1512	SDPWDuP02-8-18-0909			X			X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	LOG NO. 700-42347 700-42348	LABORATORY REMARKS: SAMPLES GENERATED IN LAB

Original - Return to Laboratory with Sample(s)