

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle

5755 8th Street East

Tacoma, WA 98424

Tel: (253)922-2310

TestAmerica Job ID: 580-39127-1

Client Project/Site: Raymond WA

Revision: 1

For:

Gray & Osborne Inc

701 Dexter Avenue North #200

Seattle, Washington 98109

Attn: Harvey Doty

Pamela R. Johnson

Authorized for release by:

7/17/2013 11:02:58 AM

Pam Johnson, Project Manager I

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Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Job ID: 580-39127-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative 580-39127-1

Comments

No additional comments.

Receipt

The samples were received on 6/27/2013 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 22.9° C.

Except:

The following samples A1 (580-39127-1), A4 (580-39127-2), A5 (580-39127-11), A6 (580-39127-12), B3 (580-39127-3), B5.5 (580-39127-13), C1 (580-39127-4), C5 (580-39127-14), C6 (580-39127-15), COMP (580-39127-25), D1 (580-39127-6), D3 (580-39127-7), D5 (580-39127-16), D6 (580-39127-17), D7 (580-39127-20), D8 (580-39127-21), E2 (580-39127-8), E7.5 (580-39127-22), F1 (580-39127-9), F4 (580-39127-10), F5 (580-39127-18), F6 (580-39127-19), F7 (580-39127-23), F8 (580-39127-24) were received at the laboratory outside the required temperature criteria.

Cooler received without ice and outside required temperature at 22.°C.

The Chain-of-Custody (COC) was not properly filled out. No sampling times were listed for the samples on the Chain-of-Custody (COC) or container labels. Time lists AM on the Chain-of-Custody (COC). Logged in per default time of 0000.

Containers do not have labels. No date or time listed on containers. Logged in per Chain-of-Custody (COC) and labeled according to sample ID written on container lids.

One or more containers for the following sample was received empty: .

Container for sample C-4 (sample -05 at login) was received empty. Cancelled sample out of login and no analysis assigned to sample.

The following samples were submitted for analysis; however, the analyses for these samples were not listed on the Chain-of-Custody (COC): A7 (580-39127-26), A8 (580-39127-30), B7.5 (580-39127-27), C7 (580-39127-28), C8 (580-39127-29)

Samples 26-30

A7

B7.5

C7

C8

A8

were received, but not listed on Chain-of-Custody (COC). Added sample ID's to Chain-of-Custody (COC) but no analysis assigned to samples. Logged in for sample date of 06/26/2013 and default time of 0000 because they were received without container labels and no sample date or time provided on containers.

Metals

Method(s) 6010B: The matrix duplicate %RPD for Pb associated with batch 139552 was outside the control limits due to non homogeneity of the sample.

No other analytical or quality issues were noted.

General Chemistry

Method(s) 1311: EPA Method 1311 requires the temperature of the room to be maintained at 21 to 25 degrees Celsius. For batch 139065 a temperature excursion of 25.2 was noted for a maximum time of 18 hours.

No other analytical or quality issues were noted.

Definitions/Glossary

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: A1

Lab Sample ID: 580-39127-1

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	3.9		0.10		%			07/01/13 11:18	1
Percent Moisture	96		0.10		%			07/01/13 11:18	1
Total Solids	4.4		0.012		%			07/01/13 14:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: A4

Lab Sample ID: 580-39127-2

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	1.7		0.10		%			07/01/13 11:18	1
Percent Moisture	98		0.10		%			07/01/13 11:18	1
Total Solids	2.7		0.012		%			07/01/13 14:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: B3

Lab Sample ID: 580-39127-3

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	2.1		0.10		%			07/01/13 11:18	1
Percent Moisture	98		0.10		%			07/01/13 11:18	1
Total Solids	3.4		0.010		%			07/01/13 14:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: C1

Lab Sample ID: 580-39127-4

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	4.3		0.10		%			07/01/13 11:18	1
Percent Moisture	96		0.10		%			07/01/13 11:18	1
Total Solids	4.5		0.010		%			07/01/13 14:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: D1

Lab Sample ID: 580-39127-6

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	3.0		0.10		%			07/01/13 11:18	1
Percent Moisture	97		0.10		%			07/01/13 11:18	1
Total Solids	3.1		0.012		%			07/01/13 14:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: D3

Lab Sample ID: 580-39127-7

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	3.7		0.10		%			07/01/13 11:18	1
Percent Moisture	96		0.10		%			07/01/13 11:18	1
Total Solids	4.1		0.012		%			07/01/13 14:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: E2

Lab Sample ID: 580-39127-8

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	4.1		0.10		%			07/01/13 11:18	1
Percent Moisture	96		0.10		%			07/01/13 11:18	1
Total Solids	3.4		0.012		%			07/01/13 14:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: F1

Lab Sample ID: 580-39127-9

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	3.4		0.10		%			07/01/13 11:18	1
Percent Moisture	97		0.10		%			07/01/13 11:18	1
Total Solids	4.2		0.013		%			07/01/13 14:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: F4

Lab Sample ID: 580-39127-10

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	3.4		0.10		%			07/01/13 11:18	1
Percent Moisture	97		0.10		%			07/01/13 11:18	1
Total Solids	3.7		0.012		%			07/01/13 14:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: A5

Lab Sample ID: 580-39127-11

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	5.4		0.10		%			07/01/13 11:18	1
Percent Moisture	95		0.10		%			07/01/13 11:18	1
Total Solids	4.8		0.010		%			07/01/13 14:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: A6

Lab Sample ID: 580-39127-12

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	5.0		0.10		%			07/01/13 11:18	1
Percent Moisture	95		0.10		%			07/01/13 11:18	1
Total Solids	4.2		0.0086		%			07/01/13 14:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: B5.5

Lab Sample ID: 580-39127-13

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	2.6		0.10		%			07/01/13 11:18	1
Percent Moisture	97		0.10		%			07/01/13 11:18	1
Total Solids	3.5		0.0099		%			07/01/13 14:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: C5

Lab Sample ID: 580-39127-14

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	2.0		0.10		%			07/01/13 11:18	1
Percent Moisture	98		0.10		%			07/01/13 11:18	1
Total Solids	2.9		0.011		%			07/01/13 14:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: C6

Lab Sample ID: 580-39127-15

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	3.5		0.10		%			07/01/13 11:18	1
Percent Moisture	97		0.10		%			07/01/13 11:18	1
Total Solids	3.6		0.0097		%			07/01/13 14:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: D5

Lab Sample ID: 580-39127-16

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	3.9		0.10		%			07/01/13 11:18	1
Percent Moisture	96		0.10		%			07/01/13 11:18	1
Total Solids	4.2		0.011		%			07/01/13 14:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: D6

Lab Sample ID: 580-39127-17

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	1.7		0.10		%			07/01/13 11:18	1
Percent Moisture	98		0.10		%			07/01/13 11:18	1
Total Solids	2.4		0.0099		%			07/01/13 14:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: F5

Lab Sample ID: 580-39127-18

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	2.3		0.10		%			07/01/13 11:18	1
Percent Moisture	98		0.10		%			07/01/13 11:18	1
Total Solids	2.6		0.0091		%			07/01/13 14:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: F6

Lab Sample ID: 580-39127-19

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	2.5		0.10		%			07/01/13 11:18	1
Percent Moisture	97		0.10		%			07/01/13 11:18	1
Total Solids	2.9		0.0095		%			07/01/13 14:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: D7

Lab Sample ID: 580-39127-20

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	6.1		0.10		%			07/01/13 11:18	1
Percent Moisture	94		0.10		%			07/01/13 11:18	1
Total Solids	5.4		0.0098		%			07/01/13 14:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: D8

Lab Sample ID: 580-39127-21

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	6.0		0.10		%			07/01/13 11:18	1
Percent Moisture	94		0.10		%			07/01/13 11:18	1
Total Solids	5.7		0.011		%			07/01/13 16:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: E7.5

Lab Sample ID: 580-39127-22

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	1.9		0.10		%			07/01/13 11:18	1
Percent Moisture	98		0.10		%			07/01/13 11:18	1
Total Solids	2.8		0.010		%			07/01/13 16:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: F7

Lab Sample ID: 580-39127-23

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	4.3		0.10		%			07/01/13 11:18	1
Percent Moisture	96		0.10		%			07/01/13 11:18	1
Total Solids	3.9		0.010		%			07/01/13 16:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: F8

Lab Sample ID: 580-39127-24

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	3.2		0.10		%			07/01/13 11:18	1
Percent Moisture	97		0.10		%			07/01/13 11:18	1
Total Solids	3.9		0.011		%			07/01/13 16:02	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: A7

Lab Sample ID: 580-39127-26

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	3.4		0.10		%			07/01/13 11:18	1
Percent Moisture	97		0.10		%			07/01/13 11:18	1
Total Solids	2.9		0.0088		%			07/03/13 15:14	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: B7.5

Lab Sample ID: 580-39127-27

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	4.9		0.10		%			07/01/13 11:18	1
Percent Moisture	95		0.10		%			07/01/13 11:18	1
Total Solids	4.7		0.0093		%			07/03/13 15:14	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: C7

Lab Sample ID: 580-39127-28

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	1.8		0.10		%			07/01/13 11:18	1
Percent Moisture	98		0.10		%			07/01/13 11:18	1
Total Solids	2.2		0.011		%			07/03/13 15:14	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: C8

Lab Sample ID: 580-39127-29

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	2.7		0.10		%			07/01/13 11:18	1
Percent Moisture	97		0.10		%			07/01/13 11:18	1
Total Solids	3.6		0.0095		%			07/03/13 15:14	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: A8

Lab Sample ID: 580-39127-30

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	4.3		0.10		%			07/01/13 11:18	1
Percent Moisture	96		0.10		%			07/01/13 11:18	1
Total Solids	4.0		0.0089		%			07/03/13 15:14	1

Client Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: COMP

Lab Sample ID: 580-39127-31

Date Collected: 06/26/13 12:00

Matrix: Waste

Date Received: 06/27/13 15:00

Percent Solids: 4.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	250		57		mg/Kg	☼	07/08/13 16:33	07/09/13 13:41	1
Cadmium	ND		19		mg/Kg	☼	07/08/13 16:33	07/09/13 13:41	1
Copper	1300		28		mg/Kg	☼	07/08/13 16:33	07/09/13 13:41	1
Lead	1300		28		mg/Kg	☼	07/08/13 16:33	07/09/13 13:41	1
Molybdenum	ND		19		mg/Kg	☼	07/08/13 16:33	07/09/13 13:41	1
Nickel	39		19		mg/Kg	☼	07/08/13 16:33	07/09/13 13:41	1
Selenium	ND		94		mg/Kg	☼	07/08/13 16:33	07/09/13 13:41	1
Zinc	4700		38		mg/Kg	☼	07/08/13 16:33	07/09/13 13:41	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.060		mg/L		07/03/13 12:14	07/05/13 11:04	1
Barium	0.087		0.010		mg/L		07/03/13 12:14	07/05/13 11:04	1
Cadmium	ND		0.010		mg/L		07/03/13 12:14	07/05/13 11:04	1
Chromium	ND		0.025		mg/L		07/03/13 12:14	07/05/13 11:04	1
Lead	ND		0.030		mg/L		07/03/13 12:14	07/05/13 11:04	1
Selenium	ND		0.10		mg/L		07/03/13 12:14	07/05/13 11:04	1
Silver	ND		0.050		mg/L		07/03/13 12:14	07/05/13 11:04	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020		mg/L		07/03/13 12:41	07/03/13 15:42	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.016		mg/Kg		07/02/13 11:13	07/02/13 15:11	1

QC Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 580-139455/21-A

Matrix: Waste

Analysis Batch: 139552

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 139455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg		07/08/13 16:33	07/09/13 12:00	1
Cadmium	ND		1.0		mg/Kg		07/08/13 16:33	07/09/13 12:00	1
Copper	ND		1.5		mg/Kg		07/08/13 16:33	07/09/13 12:00	1
Lead	ND		1.5		mg/Kg		07/08/13 16:33	07/09/13 12:00	1
Molybdenum	ND		1.0		mg/Kg		07/08/13 16:33	07/09/13 12:00	1
Nickel	ND		1.0		mg/Kg		07/08/13 16:33	07/09/13 12:00	1
Selenium	ND		5.0		mg/Kg		07/08/13 16:33	07/09/13 12:00	1
Zinc	ND		2.0		mg/Kg		07/08/13 16:33	07/09/13 12:00	1

Lab Sample ID: LCS 580-139455/22-A

Matrix: Waste

Analysis Batch: 139552

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 139455

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	200	198		mg/Kg		99	80 - 120
Cadmium	5.00	5.42		mg/Kg		108	80 - 120
Copper	25.0	25.9		mg/Kg		104	80 - 120
Lead	50.0	51.3		mg/Kg		103	80 - 120
Molybdenum	250	252		mg/Kg		101	80 - 120
Nickel	50.0	51.9		mg/Kg		104	80 - 120
Selenium	200	197		mg/Kg		98	80 - 120
Zinc	50.0	50.3		mg/Kg		101	80 - 120

Lab Sample ID: LCSD 580-139455/23-A

Matrix: Waste

Analysis Batch: 139552

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 139455

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	200	188		mg/Kg		94	80 - 120	5	20
Cadmium	5.00	5.21		mg/Kg		104	80 - 120	4	20
Copper	25.0	25.2		mg/Kg		101	80 - 120	3	20
Lead	50.0	49.1		mg/Kg		98	80 - 120	4	20
Molybdenum	250	242		mg/Kg		97	80 - 120	4	20
Nickel	50.0	49.8		mg/Kg		100	80 - 120	4	20
Selenium	200	188		mg/Kg		94	80 - 120	5	20
Zinc	50.0	48.2		mg/Kg		96	80 - 120	4	20

Lab Sample ID: LCSSRM 580-139455/24-A

Matrix: Waste

Analysis Batch: 139552

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 139455

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	237	231		mg/Kg		97.4	71.3 - 129.1
Cadmium	191	197		mg/Kg		103.3	73.3 - 126.7
Copper	123	123		mg/Kg		100.3	75.0 - 125.2
Lead	103	103		mg/Kg		99.8	70.9 - 128.2

TestAmerica Seattle

QC Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 580-139455/24-A

Matrix: Waste

Analysis Batch: 139552

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 139455

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Molybdenum	91.1	94.3		mg/Kg		103.5	69.5 - 133.9
Nickel	118	120		mg/Kg		101.7	72.7 - 152.5
Selenium	110	106		mg/Kg		96.7	66.0 - 134.5
Zinc	183	179		mg/Kg		97.6	69.4 - 130.6

Lab Sample ID: MB 580-139065/17-B

Matrix: Waste

Analysis Batch: 139306

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 139204

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.060		mg/L		07/03/13 12:14	07/05/13 09:47	1
Barium	ND		0.010		mg/L		07/03/13 12:14	07/05/13 09:47	1
Cadmium	ND		0.010		mg/L		07/03/13 12:14	07/05/13 09:47	1
Chromium	ND		0.025		mg/L		07/03/13 12:14	07/05/13 09:47	1
Lead	ND		0.030		mg/L		07/03/13 12:14	07/05/13 09:47	1
Selenium	ND		0.10		mg/L		07/03/13 12:14	07/05/13 09:47	1
Silver	ND		0.050		mg/L		07/03/13 12:14	07/05/13 09:47	1

Lab Sample ID: LCS 580-139065/2-B

Matrix: Waste

Analysis Batch: 139306

Client Sample ID: Lab Control Sample

Prep Type: TCLP

Prep Batch: 139204

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.00	4.46		mg/L		111	80 - 120
Barium	4.00	4.21		mg/L		105	80 - 120
Cadmium	0.100	0.107		mg/L		107	80 - 120
Chromium	0.400	0.420		mg/L		105	80 - 120
Lead	1.00	1.04		mg/L		104	80 - 120
Selenium	4.00	4.39		mg/L		110	80 - 120
Silver	0.600	0.631		mg/L		105	80 - 120

Lab Sample ID: LCSD 580-139065/3-B

Matrix: Waste

Analysis Batch: 139306

Client Sample ID: Lab Control Sample Dup

Prep Type: TCLP

Prep Batch: 139204

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.00	4.43		mg/L		111	80 - 120	1	20
Barium	4.00	4.15		mg/L		104	80 - 120	1	20
Cadmium	0.100	0.107		mg/L		107	80 - 120	0	20
Chromium	0.400	0.415		mg/L		104	80 - 120	1	20
Lead	1.00	1.03		mg/L		103	80 - 120	0	20
Selenium	4.00	4.34		mg/L		109	80 - 120	1	20
Silver	0.600	0.625		mg/L		104	80 - 120	1	20

TestAmerica Seattle

QC Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 580-139207/14-A

Matrix: Waste

Analysis Batch: 139222

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 139207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020		mg/L		07/03/13 12:41	07/03/13 15:01	1

Lab Sample ID: MB 580-139207/17-A

Matrix: Waste

Analysis Batch: 139222

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 139207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020		mg/L		07/03/13 12:41	07/03/13 15:08	1

Lab Sample ID: LCS 580-139207/15-A

Matrix: Waste

Analysis Batch: 139222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 139207

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0200	0.0182		mg/L		91	75 - 125

Lab Sample ID: LCSD 580-139207/16-A

Matrix: Waste

Analysis Batch: 139222

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 139207

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0200	0.0177		mg/L		88	75 - 125	3	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-139099/16-A

Matrix: Waste

Analysis Batch: 139152

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 139099

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017		mg/Kg		07/02/13 11:13	07/02/13 14:04	1

Lab Sample ID: LCS 580-139099/17-A

Matrix: Waste

Analysis Batch: 139152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 139099

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.142		mg/Kg		85	80 - 120

Lab Sample ID: LCSD 580-139099/18-A

Matrix: Waste

Analysis Batch: 139152

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 139099

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.167	0.144		mg/Kg		86	80 - 120	1	20

TestAmerica Seattle

QC Sample Results

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 580-139099/19-A ^10

Matrix: Waste

Analysis Batch: 139152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 139099

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	12.4	12.3		mg/Kg		99.2	51.3 - 148.4

Method: D 2216 - Percent Moisture

Lab Sample ID: 580-39127-21 DU

Matrix: Solid

Analysis Batch: 138984

Client Sample ID: D8

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	6.0		5.6		%		7	20
Percent Moisture	94		94		%		0.4	20

Lab Sample ID: 580-39127-30 DU

Matrix: Solid

Analysis Batch: 138984

Client Sample ID: A8

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	4.3		3.6		%		17	20
Percent Moisture	96		96		%		0.7	20

Method: SM 2540B - Solids, Total

Lab Sample ID: 580-39127-1 DU

Matrix: Solid

Analysis Batch: 139007

Client Sample ID: A1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Solids	4.4		4.69		%		7	20

Lab Sample ID: 580-39127-21 DU

Matrix: Solid

Analysis Batch: 139025

Client Sample ID: D8

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Solids	5.7		5.65		%		0.1	20

Lab Sample ID: 580-39127-26 DU

Matrix: Solid

Analysis Batch: 139218

Client Sample ID: A7

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Solids	2.9		2.93		%		0.2	20

TestAmerica Seattle

Lab Chronicle

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: A1

Date Collected: 06/26/13 00:00

Date Received: 06/27/13 15:00

Lab Sample ID: 580-39127-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139007	07/01/13 14:02	AJM	TAL SEA

Client Sample ID: A4

Date Collected: 06/26/13 00:00

Date Received: 06/27/13 15:00

Lab Sample ID: 580-39127-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139007	07/01/13 14:02	AJM	TAL SEA

Client Sample ID: B3

Date Collected: 06/26/13 00:00

Date Received: 06/27/13 15:00

Lab Sample ID: 580-39127-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139007	07/01/13 14:02	AJM	TAL SEA

Client Sample ID: C1

Date Collected: 06/26/13 00:00

Date Received: 06/27/13 15:00

Lab Sample ID: 580-39127-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139007	07/01/13 14:02	AJM	TAL SEA

Client Sample ID: D1

Date Collected: 06/26/13 00:00

Date Received: 06/27/13 15:00

Lab Sample ID: 580-39127-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139007	07/01/13 14:02	AJM	TAL SEA

Client Sample ID: D3

Date Collected: 06/26/13 00:00

Date Received: 06/27/13 15:00

Lab Sample ID: 580-39127-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: D3

Lab Sample ID: 580-39127-7

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540B		1	139007	07/01/13 14:02	AJM	TAL SEA

Client Sample ID: E2

Lab Sample ID: 580-39127-8

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139007	07/01/13 14:02	AJM	TAL SEA

Client Sample ID: F1

Lab Sample ID: 580-39127-9

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139007	07/01/13 14:02	AJM	TAL SEA

Client Sample ID: F4

Lab Sample ID: 580-39127-10

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139007	07/01/13 14:02	AJM	TAL SEA

Client Sample ID: A5

Lab Sample ID: 580-39127-11

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139007	07/01/13 14:02	AJM	TAL SEA

Client Sample ID: A6

Lab Sample ID: 580-39127-12

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139007	07/01/13 14:02	AJM	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: B5.5

Lab Sample ID: 580-39127-13

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139007	07/01/13 14:02	AJM	TAL SEA

Client Sample ID: C5

Lab Sample ID: 580-39127-14

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139007	07/01/13 14:02	AJM	TAL SEA

Client Sample ID: C6

Lab Sample ID: 580-39127-15

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139007	07/01/13 14:02	AJM	TAL SEA

Client Sample ID: D5

Lab Sample ID: 580-39127-16

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139007	07/01/13 14:02	AJM	TAL SEA

Client Sample ID: D6

Lab Sample ID: 580-39127-17

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139007	07/01/13 14:02	AJM	TAL SEA

Client Sample ID: F5

Lab Sample ID: 580-39127-18

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: F5

Lab Sample ID: 580-39127-18

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540B		1	139007	07/01/13 14:02	AJM	TAL SEA

Client Sample ID: F6

Lab Sample ID: 580-39127-19

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139007	07/01/13 14:02	AJM	TAL SEA

Client Sample ID: D7

Lab Sample ID: 580-39127-20

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139007	07/01/13 14:02	AJM	TAL SEA

Client Sample ID: D8

Lab Sample ID: 580-39127-21

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139025	07/01/13 16:02	AJM	TAL SEA

Client Sample ID: E7.5

Lab Sample ID: 580-39127-22

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139025	07/01/13 16:02	AJM	TAL SEA

Client Sample ID: F7

Lab Sample ID: 580-39127-23

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139025	07/01/13 16:02	AJM	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: F8

Lab Sample ID: 580-39127-24

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139025	07/01/13 16:02	AJM	TAL SEA

Client Sample ID: A7

Lab Sample ID: 580-39127-26

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139218	07/03/13 15:14	AJM	TAL SEA

Client Sample ID: B7.5

Lab Sample ID: 580-39127-27

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139218	07/03/13 15:14	AJM	TAL SEA

Client Sample ID: C7

Lab Sample ID: 580-39127-28

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139218	07/03/13 15:14	AJM	TAL SEA

Client Sample ID: C8

Lab Sample ID: 580-39127-29

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA
Total/NA	Analysis	SM 2540B		1	139218	07/03/13 15:14	AJM	TAL SEA

Client Sample ID: A8

Lab Sample ID: 580-39127-30

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	138984	07/01/13 11:18	ALC	TAL SEA

TestAmerica Seattle

Lab Chronicle

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Client Sample ID: A8

Lab Sample ID: 580-39127-30

Date Collected: 06/26/13 00:00

Matrix: Solid

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540B		1	139218	07/03/13 15:14	AJM	TAL SEA

Client Sample ID: COMP

Lab Sample ID: 580-39127-31

Date Collected: 06/26/13 12:00

Matrix: Waste

Date Received: 06/27/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			139099	07/02/13 11:13	PAB	TAL SEA
Total/NA	Analysis	7471A		1	139152	07/02/13 15:11	FCW	TAL SEA
TCLP	Leach	1311			139065	07/02/13 09:16	RES	TAL SEA
TCLP	Prep	7470A			139207	07/03/13 12:41	PAB	TAL SEA
TCLP	Analysis	7470A		1	139222	07/03/13 15:42	PAB	TAL SEA
TCLP	Leach	1311			139065	07/02/13 09:16	RES	TAL SEA
TCLP	Prep	3010A			139204	07/03/13 12:14	PAB	TAL SEA
TCLP	Analysis	6010B		1	139306	07/05/13 11:04	HJM	TAL SEA
Total/NA	Prep	3050B			139455	07/08/13 16:33	PAB	TAL SEA
Total/NA	Analysis	6010B		1	139552	07/09/13 13:41	HJM	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14
California	NELAP	9	01115CA	01-31-14
L-A-B	DoD ELAP		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-13
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-14

Sample Summary

Client: Gray & Osborne Inc
Project/Site: Raymond WA

TestAmerica Job ID: 580-39127-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-39127-1	A1	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-2	A4	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-3	B3	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-4	C1	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-6	D1	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-7	D3	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-8	E2	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-9	F1	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-10	F4	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-11	A5	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-12	A6	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-13	B5.5	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-14	C5	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-15	C6	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-16	D5	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-17	D6	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-18	F5	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-19	F6	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-20	D7	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-21	D8	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-22	E7.5	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-23	F7	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-24	F8	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-26	A7	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-27	B7.5	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-28	C7	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-29	C8	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-30	A8	Solid	06/26/13 00:00	06/27/13 15:00
580-39127-31	COMP	Waste	06/26/13 12:00	06/27/13 15:00

Client: **701 DEXTER AVE N STE 200** Client Contact: **HARVEY DOTT** Date: **6/26/13** Chain of Custody Number: **19043**

Address: **SEA WA** **AS109** Telephone Number (Area Code)/Fax Number: **206 284 0860** Lab Number: **39127** Page: **1** of **1**

City: **SEA WA** State: **WA** Zip Code: **98109** Sample: **KET H** Lab Contact: **KEITH** Analysis (Attach list if more space is needed)

Project Name and Location (State): **PLA YWONG WA** Billing Contact: **KEITH** Special Instructions/Conditions of Receipt

Contract/Purchase Order/Quote No.: **SK006609** Matrix: **SLURRY** Containers & Preservatives: **None**

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH
1-A1	6/26/13	AW										
2-A4												
3-B3												
4-C1												
5-C4												
6-D1												
7-D3												
8-E2												
9-F1												
10-F4												
11-A3												
12-A6												



580-39127 Chain of Custody

Cooler: ☒ Yes ☐ No Cooler Temp: **58.00** Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Return To Client ☐ Archive For **6** Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other **STANDARD**

1. Relinquished By Sign/Print: **[Signature]** Date: **6/26/13** Time: **1500**

2. Relinquished By Sign/Print: **[Signature]** Date: **6/26/13** Time: **1500**

3. Relinquished By Sign/Print: **[Signature]** Date: **6/26/13** Time: **1500**

Comments: **REPORT FOR SOLIDS ON 8-Percent Dry basis PLZ ANALYSIS PER CTE SK006609**

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

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☐ Short Hold

Chain of
Custody Record

Client

CHARTER + OSBORNE

Client Contact

HARVEY JOHN

Date

6/26/13

Chain of Custody Number

19044

Address

701 DEETER AVE N STE 200

Telephone Number (Area Code)/Fax Number

206 284 0860

Lab Number

39124

Page 2 of 3

City

SEA

State

WA 98177

Sampler

KS

Lab Contact

Project Name and Location (State)

RAYMOND, WA

Billing Contact

Contract/Purchase Order/Quote No.

58006604

Sample ID and Location/Description
(Containers for each sample may be combined on one line)

Date

6/26/13

Time

AM

Air

Aqueous

Sed.

Unpres.

H2SO4

HNO3

HCl

NaOH

ZnAc/
NaOH

Containers &
Preservatives

Analysis (Attach list if
more space is needed)

Special Instructions/
Conditions of Receipt

QC Requirements (Specify)

Sample Disposal

Disposal By Lab

Return To Client

Archive For

Months

(A fee may be assessed if samples
are retained longer than 1 month)

13-B5.5

14-C5

15-C6

16-D5

17-D6

18-F5

19-F6

20-D7

21-D8

22-E7.5

23-F7

24-F6

25-F6

26-F6

27-F6

28-F6

29-F6

30-F6

31-F6

32-F6

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34-F6

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Chain of Custody Record

7/17/2013

[illegible]

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**Chain of
Custody Record**

THE LEADER IN ENVIRONMENTAL TESTING
GARY + OSBORNE, INC.

www.testamericainc.com

Client: 701 DEXTER AVE N STE 200

Client Contact: HARVEY DORT

Date: 6/26/13

Chain of Custody Number: 19043

Address: SEA WA 98109

Telephone Number (Area Code)/Fax Number: 206 284 0860

Lab Number: 39127

Page: 1 of 1

City: SEA WA State: WA Zip Code: 98109

Sampler: KATH H

Lab Contact:

Analysis (Attach list if more space is needed)

Project Name and Location (State): PLATINUM WA

Billing Contact:

Special Instructions/
Conditions of Receipt

Contract/Purchase Order/Quote No.: 58006609

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)

Matrix: Air, Aqueous, Sed., Soil, Unpres., H2SO4, HNO3, HCl, NaOH, ZnAc/NaOH

TOTAL SOLIDS



580-39127 Chain of Custody

Sample I.D. and Location/Description	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH
1-A1	6/26/13	AM										
2-A4												
3-B3												
4-C1												
5-C4												
6-D1												
7-D3												
8-E2												
9-F1												
10-F4												
11-A3												
12-A6												

Cooler: ☒ Yes ☐ No Cooler Temp: _____ Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Return To Client ☐ Active For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other: 5 BUSINESS DAYS

1. Relinquished By Sign/Print: <u>[Signature]</u> / HARVEY DORT	Date: 6/26/13	Time: 1500
2. Relinquished By Sign/Print: <u>[Signature]</u>	Date: _____	Time: _____
3. Relinquished By Sign/Print: _____	Date: _____	Time: _____

Comments: REPORT TOTAL SOLIDS ON 8-Percent Dry basis PLZ ANALYSIS PER COTE 58006609
DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

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Chain of
Custody Record

7/17/2013

Client CHART + OSBORNE		Client Contact HARVEY DOM		Date 6/26/13	Chain of Custody Number 19044
Address 701 DEETER AVE N STE 200		Telephone Number (Area Code)/Fax Number 206 284 0860		Lab Number 39124	Page 2 of 3
City SEA	State WA	Zip Code 98177	Sampler K5	Lab Contact	
Project Name and Location (State) DAYMOND . WA			Billing Contact		
Contract/Purchase Order/Quote No. 58006604		Matrix SLUDGE		Containers & Preservatives	
Sample ID and Location/Description (Containers for each sample may be combined on one line)		Date	Time	Air	Aqueous
13-B5.5		6/26/13	AM		
14-C5					
15-C6					
16-D5					
17-D6					
18-F5					
19-F6					
20-D7					
21-D8					
22-E7.5					
23-F7					
24-F6					
Cooler <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temp: _____		Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown		Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab	
Turn Around Time Required (business days) <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 5 Days <input type="checkbox"/> 10 Days <input type="checkbox"/> 15 Days <input checked="" type="checkbox"/> Other 5D		QC Requirements (Specify)		(A fee may be assessed if samples are retained longer than 1 month)	
Refrinquinished By Sign/Print Marisa Constock		Date 6/21/13	Time 15:00	1. Received By Sign/Print Francisco Lung Jr.	
2. Refinquinished By Sign/Print		Date	Time	2. Received By Sign/Print	
3. Refinquinished By Sign/Print		Date	Time	3. Received By Sign/Print	
Comments PLEASE REPORT TOTAL SOLIDS ON % - PERCENT BASIS					
DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy					

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19045

Page 3 of 3

Analysis (Attach list if more space is needed)

701

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[illegible]

Cooler/IB Dig/IB cor 72.9 unc 77.8
 Cooler Dsc Lc 81.4/4h.7c @ Lab 1630
 Wet/Packs Packing 07h.2r

1

[illegible]

545

[illegible]

272

TAL-8274-580 (0210)

Login Sample Receipt Checklist

Client: Gray & Osborne Inc

Job Number: 580-39127-1

Login Number: 39127

List Source: TestAmerica Seattle

List Number: 1

Creator: Balles, Racheal M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Refer to Job Narrative for details.
Cooler Temperature is acceptable.	False	Refer to Job Narrative for details.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received extra samples not listed on COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No time on COC or sample containers
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	Received empty container.
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	