



FIGURE 1
SITE LOCATION MAP
KALALOC FIRING RANG
OLYMPIC NATIONAL PARK

SCALE: 1"=20'
S.O. NO.: 109727
DSN/DWN: REB/RRR

DATE: NOVEMBER 2007
FILE: OLYMPIC_05
CHK: REB

Baker

Michael Baker Jr., Inc.

MICHAEL BAKER JR., INC.
MOON TOWNSHIP, PENNSYLVANIA

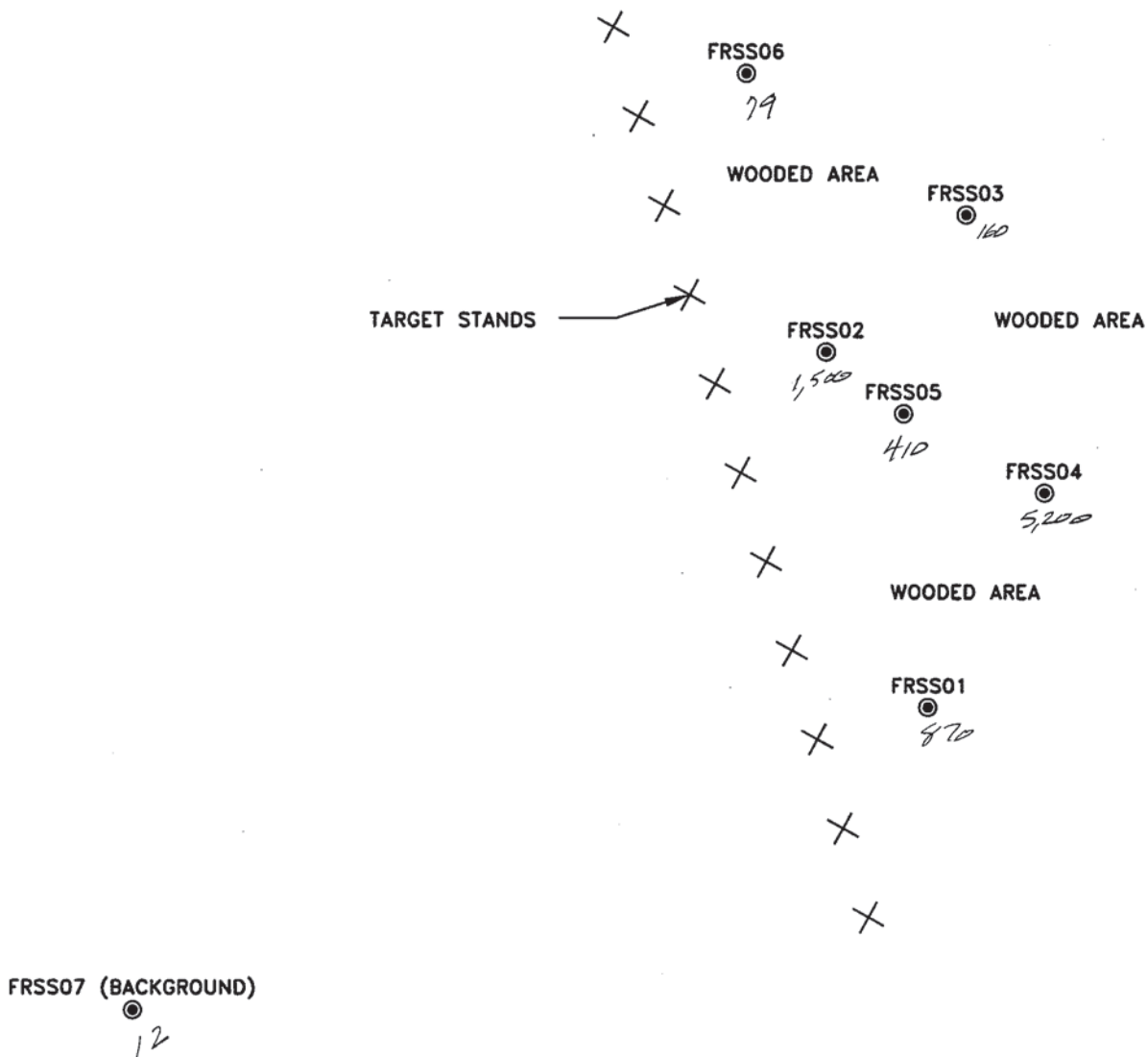


FIGURE 2
SAMPLE LOCATIONS
KALALOCH FIRING RANGE
OLYMPIC NATIONAL PARK

SCALE: 1"=15'
S.O. NO.: 109727
DSN/DWN: REB/RRR

DATE: NOVEMBER 2007
FILE: OLYMPIC_03
CHK: REB

Baker
Michael Baker Jr., Inc.

MICHAEL BAKER JR., INC.
MOON TOWNSHIP, PENNSYLVANIA

Baker

Michael Baker Jr., Inc.

**TECHNICAL REVIEW - KALALOCH FIRING
RANGE, OLYMPIC NATIONAL PARK**

Attachment A
Field Notes

3/7

(2)

- 0730 -

* arrived at Steve's office ~

- 0745 -

* L&A for Kalaboch sites

- 0935 -

* Arrived at Kalaboch Lodge

* Talked to Rachel Newton ~ Aramark

- Dean Krane ~

VP of Env. Affairs -

Aramark Corp.

- Lodge Site -

* Former 5000 gal fuel oil
tank ~ heating fuel

* Leak occurred in 2000 ~
release -

* Likely still soil contamination
remaining - near tank ft

REB

(3)

- release to ground - near bank
to inlet

- underlying logs used to support
structure are contaminated with
fuels - excavation stopped
Not to disturb the logs

- Inspected the area over the bank
along hill side

-1050-

Arrived at ~~the~~ dump

Site ~ 100' x 100' Area

* ~ 50 years old

* Wood, steel, plastic, garbage,
concrete - buried/buried

* House hold rubbish/garbage

* Open hole

* Material pushed - spread over
surface

REB

(4)

-1120-

* Arrived at Firing range

* 10 target range stands noted

* No berm or back stop
behind the stands

* Area behind stands is flat,
heavily vegetated, and marshy
in locations

* No visible signs of shot /
lead noted

* Several garbage cans noted
near the starting area

* Several empty cartridge/
casing piles noted

* Range was closed ~ 6 yrs
ago according to Steve

* Various types of guns were
used - pistols, rifles,
M1Cs

REB

⑥

1310-Lunch

1340-Left Kalalouh Area

1540-Arrived back at Park
Headquarters - Steve will meet
me tomorrow to sample at
Gas House Site

1600-Arrived at hotel -
Packing samples / prep for
Thursday

REB

Baker

Michael Baker Jr., Inc.

**TECHNICAL REVIEW - KALALOGH FIRING
RANGE, OLYMPIC NATIONAL PARK**

Attachment B
Photographs

MICHAEL BAKER JR., INC. – PHOTOGRAPHIC RECORD

SITE NAME: Kalaloch Firing Range

PHOTOGRAPH

1

VIEW

East

**PHOTOGRAPHS
BY**

Baker



Comments: Metal target stands in foreground

PHOTOGRAPH

2

VIEW

East

**PHOTOGRAPHS
BY**

Baker



Comments: "Backstop" of range

MICHAEL BAKER JR., INC. – PHOTOGRAPHIC RECORD

SITE NAME: Kalaloch Firing Range

PHOTOGRAPH

3

VIEW

Southeast

**PHOTOGRAPHS
BY**

Baker



Comments: Garbage cans and spent casings

PHOTOGRAPH

4

VIEW

Northeast

**PHOTOGRAPHS
BY**

Baker



Comments: Standing at background location, looking toward the range

Baker

Michael Baker Jr., Inc.

**TECHNICAL REVIEW - KALALOGH FIRING
RANGE, OLYMPIC NATIONAL PARK**

Attachment C
Chain-of-Custody and Laboratory Data Sheets



STL

ANALYTICAL REPORT

Job Number: 580-5198-1

Job Description: Olympic National Park

For:

Michael Baker Jr., Inc.
Airside Business Park
100 Airside Drive
Moon Township, PA 15108

Attention: Robert Roselius

A handwritten signature in cursive script, appearing to read "Katie Downie".

Katie Downie
Project Manager II
kdownie@stl-inc.com
03/20/2007

Project Manager: Katie Downie

STL Seattle is a part of Severn Trent Laboratories, Inc.

This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender immediately at 253-922-2310 and destroy this report immediately.

Severn Trent Laboratories, Inc.

STL Seattle 5755 8th Street East, Tacoma, WA 98424
Tel (253) 922-2310 Fax (253) 922-5047 www.stl-inc.com



SAMPLE SUMMARY

Client: Michael Baker Jr., Inc.

Job Number: 580-5198-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-5198-1	FRSS01-3-7-07	Solid	03/07/2007 1130	03/09/2007 1630
580-5198-2	FRSS02-3-7-07	Solid	03/07/2007 1140	03/09/2007 1630
580-5198-3	FRSS03-3-7-07	Solid	03/07/2007 1146	03/09/2007 1630
580-5198-4	FRSS04-3-7-07	Solid	03/07/2007 1153	03/09/2007 1630
580-5198-5	FRSS05-3-7-07	Solid	03/07/2007 1157	03/09/2007 1630
580-5198-6	FRSS06-3-7-07	Solid	03/07/2007 1205	03/09/2007 1630
580-5198-7	FRSS07-3-7-07	Solid	03/07/2007 1215	03/09/2007 1630

Analytical Data

Client: Michael Baker Jr., Inc.

Job Number: 580-5198-1

Client Sample ID: FRSS01-3-7-07

Lab Sample ID: 580-5198-1

Client Matrix: Solid

% Moisture: 40.0

Date Sampled: 03/07/2007 1130

Date Received: 03/09/2007 1630

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B

Analysis Batch: 580-16640

Instrument ID: SEA027

Preparation: 3050B

Prep Batch: 580-16601

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 1.1071 g

Date Analyzed: 03/14/2007 1236

Final Weight/Volume: 50 mL

Date Prepared: 03/13/2007 0900

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Lead		870		1.1

Analytical Data

Client: Michael Baker Jr., Inc.

Job Number: 580-5198-1

Client Sample ID: FRSS02-3-7-07

Lab Sample ID: 580-5198-2

Client Matrix: Solid

% Moisture: 43.7

Date Sampled: 03/07/2007 1140

Date Received: 03/09/2007 1630

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B

Analysis Batch: 580-16640

Instrument ID: SEA027

Preparation: 3050B

Prep Batch: 580-16601

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 1.1237 g

Date Analyzed: 03/14/2007 1241

Final Weight/Volume: 50 mL

Date Prepared: 03/13/2007 0900

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Lead		1500		1.2

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method: 6010B

Analysis Batch: 580-16754

Instrument ID: SEA027

Preparation: 3010A

Prep Batch: 580-16718

Lab File ID: N/A

Dilution: 1.0

Leachate Batch: 580-16691

Initial Weight/Volume: 50 mL

Date Analyzed: 03/16/2007 1718

Final Weight/Volume: 50 mL

Date Prepared: 03/16/2007 1020

Date Leached: 03/15/2007 1531

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		16		0.015

Analytical Data

Client: Michael Baker Jr., Inc.

Job Number: 580-5198-1

Client Sample ID: FRSS03-3-7-07

Lab Sample ID: 580-5198-3

Client Matrix: Solid

% Moisture: 70.9

Date Sampled: 03/07/2007 1146

Date Received: 03/09/2007 1630

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B

Analysis Batch: 580-16640

Instrument ID: SEA027

Preparation: 3050B

Prep Batch: 580-16601

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 1.4931 g

Date Analyzed: 03/14/2007 1246

Final Weight/Volume: 50 mL

Date Prepared: 03/13/2007 0900

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Lead		160		1.7

Analytical Data

Client: Michael Baker Jr., Inc.

Job Number: 580-5198-1

Client Sample ID: FRSS04-3-7-07

Lab Sample ID: 580-5198-4

Client Matrix: Solid

% Moisture: 67.2

Date Sampled: 03/07/2007 1153

Date Received: 03/09/2007 1630

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch:	580-16640	Instrument ID:	SEA027
Preparation:	3050B	Prep Batch:	580-16601	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.0137 g
Date Analyzed:	03/14/2007 1250			Final Weight/Volume:	50 mL
Date Prepared:	03/13/2007 0900				

Analyte	DryWt Corrected:	Result (mg/Kg)	Qualifier	RL
Lead	Y	5200		2.3

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method:	6010B	Analysis Batch:	580-16754	Instrument ID:	SEA027
Preparation:	3010A	Prep Batch:	580-16718	Lab File ID:	N/A
Dilution:	1.0	Leachate Batch:	580-16691	Initial Weight/Volume:	50 mL
Date Analyzed:	03/16/2007 1722			Final Weight/Volume:	50 mL
Date Prepared:	03/16/2007 1020				
Date Leached:	03/15/2007 1531				

Analyte	DryWt Corrected:	Result (mg/L)	Qualifier	RL
Lead	N	20		0.015

Analytical Data

Client: Michael Baker Jr., Inc.

Job Number: 580-5198-1

Client Sample ID: FRSS05-3-7-07

Lab Sample ID: 580-5198-5

Date Sampled: 03/07/2007 1157

Client Matrix: Solid

% Moisture: 71.7

Date Received: 03/09/2007 1630

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B

Analysis Batch: 580-16640

Instrument ID: SEA027

Preparation: 3050B

Prep Batch: 580-16601

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 1.2859 g

Date Analyzed: 03/14/2007 1256

Final Weight/Volume: 50 mL

Date Prepared: 03/13/2007 0900

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Lead		410		2.1

Analytical Data

Client: Michael Baker Jr., Inc.

Job Number: 580-5198-1

Client Sample ID: FRSS06-3-7-07

Lab Sample ID: 580-5198-6

Date Sampled: 03/07/2007 1205

Client Matrix: Solid

% Moisture: 44.4

Date Received: 03/09/2007 1630

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B

Analysis Batch: 580-16640

Instrument ID: SEA027

Preparation: 3050B

Prep Batch: 580-16601

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 1.4866 g

Date Analyzed: 03/14/2007 1313

Final Weight/Volume: 50 mL

Date Prepared: 03/13/2007 0900

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Lead		79		0.91

Analytical Data

Client: Michael Baker Jr., Inc.

Job Number: 580-5198-1

Client Sample ID: FRSS07-3-7-07

Lab Sample ID: 580-5198-7

Date Sampled: 03/07/2007 1215

Client Matrix: Solid

% Moisture: 52.0

Date Received: 03/09/2007 1630

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 580-16640	Instrument ID:	SEA027
Preparation:	3050B	Prep Batch: 580-16601	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	1.2137 g
Date Analyzed:	03/14/2007 1317		Final Weight/Volume:	50 mL
Date Prepared:	03/13/2007 0900			

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Lead		12		1.3

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method:	6010B	Analysis Batch: 580-16754	Instrument ID:	SEA027
Preparation:	3010A	Prep Batch: 580-16718	Lab File ID:	N/A
Dilution:	1.0	Leachate Batch: 580-16691	Initial Weight/Volume:	50 mL
Date Analyzed:	03/16/2007 1730		Final Weight/Volume:	50 mL
Date Prepared:	03/16/2007 1020			
Date Leached:	03/15/2007 1531			

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		0.054		0.015

Analytical Data

Client: Michael Baker Jr., Inc.

Job Number: 580-5198-1

General Chemistry

Client Sample ID: FRSS01-3-7-07

Lab Sample ID: 580-5198-1
Client Matrix: Solid

Date Sampled: 03/07/2007 1130
Date Received: 03/09/2007 1630

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	60		%	0.10	1.0	PercentMoisture
Any Batch: 580-16589 Date Analyzed 03/13/2007 1209						

Client Sample ID: FRSS02-3-7-07

Lab Sample ID: 580-5198-2
Client Matrix: Solid

Date Sampled: 03/07/2007 1140
Date Received: 03/09/2007 1630

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	56		%	0.10	1.0	PercentMoisture
Any Batch: 580-16589 Date Analyzed 03/13/2007 1209						

Client Sample ID: FRSS03-3-7-07

Lab Sample ID: 580-5198-3
Client Matrix: Solid

Date Sampled: 03/07/2007 1146
Date Received: 03/09/2007 1630

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	29		%	0.10	1.0	PercentMoisture
Any Batch: 580-16589 Date Analyzed 03/13/2007 1209						

Client Sample ID: FRSS04-3-7-07

Lab Sample ID: 580-5198-4
Client Matrix: Solid

Date Sampled: 03/07/2007 1153
Date Received: 03/09/2007 1630

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	33		%	0.10	1.0	PercentMoisture
Any Batch: 580-16589 Date Analyzed 03/13/2007 1209						

Analytical Data

Client: Michael Baker Jr., Inc.

Job Number: 580-5198-1

General Chemistry**Client Sample ID: FRSS05-3-7-07**

Lab Sample ID: 580-5198-5

Date Sampled: 03/07/2007 1157

Client Matrix: Solid

Date Received: 03/09/2007 1630

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	28		%	0.10	1.0	PercentMoisture
Any Batch: 580-16589 Date Analyzed 03/13/2007 1209						

Client Sample ID: FRSS06-3-7-07

Lab Sample ID: 580-5198-6

Date Sampled: 03/07/2007 1205

Client Matrix: Solid

Date Received: 03/09/2007 1630

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	56		%	0.10	1.0	PercentMoisture
Any Batch: 580-16589 Date Analyzed 03/13/2007 1209						

Client Sample ID: FRSS07-3-7-07

Lab Sample ID: 580-5198-7

Date Sampled: 03/07/2007 1215

Client Matrix: Solid

Date Received: 03/09/2007 1630

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	48		%	0.10	1.0	PercentMoisture
Any Batch: 580-16589 Date Analyzed 03/13/2007 1209						

Quality Control Results

Client: Michael Baker Jr., Inc.

Job Number: 580-5198-1

Method Blank - Batch: 580-16601

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 580-16601/17-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/14/2007 1130
Date Prepared: 03/13/2007 0900

Analysis Batch: 580-16640
Prep Batch: 580-16601
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.75

Lab Control Spike/ Lab Control Spike Duplicate Recovery Report - Batch: 580-16601

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 580-16601/18-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/14/2007 1203
Date Prepared: 03/13/2007 0900

Analysis Batch: 580-16640
Prep Batch: 580-16601
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-16601/19-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/14/2007 1207
Date Prepared: 03/13/2007 0900

Analysis Batch: 580-16640
Prep Batch: 580-16601
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Lead	99	95	80 - 120	4	35		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Michael Baker Jr., Inc.

Job Number: 580-5198-1

Method Blank - Batch: 580-16718

Lab Sample ID: MB 580-16718/14-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2007 1626
Date Prepared: 03/16/2007 1020

Analysis Batch: 580-16754
Prep Batch: 580-16718
Units: mg/L

Method: 6010B
Preparation: 3010A
TCLP

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		0.015

Lab Control Spike/ Lab Control Spike Duplicate Recovery Report - Batch: 580-16718

LCS Lab Sample ID: LCS 580-16718/15-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2007 1629
Date Prepared: 03/16/2007 1020

Analysis Batch: 580-16754
Prep Batch: 580-16718
Units: mg/L

Method: 6010B
Preparation: 3010A
TCLP

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-16718/16-AA
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2007 1634
Date Prepared: 03/16/2007 1020

Analysis Batch: 580-16754
Prep Batch: 580-16718
Units: mg/L

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Lead	100	100	80 - 120	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Michael Baker Jr., Inc.

Job Number: 580-5198-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 580-16718

Method: 6010B

Preparation: 3010A

TCLP

MS Lab Sample ID: 580-5198-7
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2007 1740
Date Prepared: 03/16/2007 1020

Analysis Batch: 580-16754
Prep Batch: 580-16718

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 580-5198-7
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2007 1744
Date Prepared: 03/16/2007 1020

Analysis Batch: 580-16754
Prep Batch: 580-16718

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Lead	96	94	50 - 150	2	20		

Duplicate - Batch: 580-16718

Method: 6010B

Preparation: 3010A

TCLP

Lab Sample ID: 580-5198-7
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2007 1735
Date Prepared: 03/16/2007 1020

Analysis Batch: 580-16754
Prep Batch: 580-16718
Units: mg/L

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Lead	0.054	0.0280	64	20	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

DATA REPORTING QUALIFIERS

Client: Michael Baker Jr., Inc.

Job Number: 580-5198-1

Lab Section	Qualifier	Description
Metals	F	Duplicate RPD exceeds the control limit

STL Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.stl-inc.com

8/5/1

STL®
SEVERN
TRENT

Client Michael Bates		Project Manager Joe Rozum		Chain of Custody Number 23020	
Address 100 Disside Dr.		Telephone Number (Area Code)/Fax Number (425) 269-2039		Date 3/7/07	
City Moorestown, NJ		State RA		Page 1 of 1	
Zip Code 08057		Lab Contact Lab Contact		Analysis (Attach list if more space is needed)	
Project Name and Location (State) Olympic Village - Fishtown, WA		Carrier/Waybill Number		Special Instructions/ Conditions of Receipt	
Contract/Purchase Order/Quote No.					

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives							
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		
FR5501-3-7-07	3-7-07	1130				✓								
FR5502-3-7-07	3-7-07	1140				✓								
FR5503-3-7-07	3-7-07	1146				✓								
FR5504-3-7-07	3-7-07	1153				✓								
FR5505-3-7-07	3-7-07	1157				✓								
FR5506-3-7-07	3-7-07	1205				✓								
FR5507-3-7-07	3-7-07	1215				✓								

Cooler ☒ Yes ☐ No Cooler Temp: _____	Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown		Sample Disposal ☒ Disposal By Lab ☐ Return To Client ☐ Archive For _____		(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 _____		QC Requirements (Specify)		Months _____	

1. Relinquished By Hand 9 Bank	Date 3-8-07	Time 1500
2. Relinquished By	Date	Time
3. Relinquished By	Date	Time

1. Received By CF	Date 3-8-07	Time 1030
2. Received By	Date	Time
3. Received By	Date	Time

Comments

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

STL8274-580 (12/02)

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Michael Baker Jr., Inc.

Job Number: 580-5198-1

Login Number: 5198

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	NA	CLIENT DROPPED OFF IN SR
Cooler Temperature is acceptable.	NA	
Cooler Temperature is recorded.	NA	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
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.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	NA	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Appendix B

Analytical Laboratory Reports

July 20, 2011

Todd Leeds
Resource Management Consultants
8136 South State Street
Suite 2A
Midvale, UT 84047

RE: Project: WA Lead - 110322
Pace Project No.: 258292

Dear Todd Leeds:

Enclosed are the analytical results for sample(s) received by the laboratory on June 28, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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.

Sincerely,



Andy Brownfield

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Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WA Lead - 110322

Pace Project No.: 258292

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Idaho Certification #: MN00064

Illinois Certification #: 200011

Iowa Certification #: 368

Kansas Certification #: E-10167

Louisiana Certification #: 03086

Louisiana Certification #: LA080009

Maine Certification #: 2007029

Maryland Certification #: 322

Michigan DEQ Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT CERT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New Mexico Certification #: Pace

New York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: D9921

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Washington Certification #: C754

Wisconsin Certification #: 999407970

Washington Certification IDs

940 South Harney Street, Seattle, WA 98108

Alaska CS Certification #: UST-025

California Certification #: 01153CA

Florida/NELAP Certification #: E87617

Oregon Certification #: WA200007

Washington Certification #: C555

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: WA Lead - 110322

Pace Project No.: 258292

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
258292001	KSL-1	EPA 6010	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258292002	KSL-2	EPA 6010	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258292003	KSL-3	EPA 6010	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258292004	KSL-3b	EPA 6010	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258292005	KSL-4	EPA 6010	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258292006	KSL-5	EPA 6010	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258292007	KSL-6	EPA 6010	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258292008	KSL-7	EPA 6010	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258292009	KSL-8	EPA 6010	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258292010	KSL-9	EPA 6010	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258292011	KSL-9b	EPA 6010	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258292012	KSL-10	EPA 6010	BGA	1	PASI-S
		EPA 6010	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258292013	KSL-11	EPA 6010	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258292014	KSL-511	EPA 6010	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258292015	KSL-BG	EPA 6010	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258292016	KSW-DWN	EPA 6010	BGA	1	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 6020	TL1	1	PASI-M
		EPA 6020	RJS	1	PASI-M
258292017	KSW-UP	EPA 6010	BGA	1	PASI-S
		EPA 6010	BGA	1	PASI-S

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SAMPLE ANALYTE COUNT

Project: WA Lead - 110322

Pace Project No.: 258292

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
258292018	KSW-GW	EPA 6020	TL1	1	PASI-M
		EPA 6020	RJS	1	PASI-M
		EPA 6010	BGA	1	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 6020	CUS	1	PASI-M
258292019	KSW-51DWN	EPA 6020	RJS	1	PASI-M
		EPA 6010	BGA	1	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 6020	TL1	1	PASI-M
		EPA 6020	RJS	1	PASI-M

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WA Lead - 110322

Pace Project No.: 258292

Sample: KSL-1		Lab ID: 258292001	Collected: 06/27/11 11:25		Received: 06/28/11 14:00		Matrix: Solid	
Results reported on a "dry-weight" basis								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	19.7	mg/kg	1.4	1	07/05/11 09:31	07/06/11 14:54	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	32.3	%	0.10	1		06/29/11 13:52		

Sample: KSL-2		Lab ID: 258292002	Collected: 06/27/11 11:40		Received: 06/28/11 14:00		Matrix: Solid	
Results reported on a "dry-weight" basis								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	3190	mg/kg	22.4	10	07/05/11 09:31	07/06/11 16:14	7439-92-1	D4
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	57.9	%	0.10	1		06/29/11 13:53		

Sample: KSL-3		Lab ID: 258292003	Collected: 06/27/11 11:50		Received: 06/28/11 14:00		Matrix: Solid	
Results reported on a "dry-weight" basis								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	485	mg/kg	3.0	2	07/05/11 09:31	07/06/11 16:18	7439-92-1	D4
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	38.6	%	0.10	1		06/29/11 13:54		

Sample: KSL-3b		Lab ID: 258292004	Collected: 06/27/11 11:50		Received: 06/28/11 14:00		Matrix: Solid	
Results reported on a "dry-weight" basis								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	138	mg/kg	2.5	2	07/05/11 09:31	07/06/11 16:22	7439-92-1	D3
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	32.0	%	0.10	1		06/29/11 13:55		

ANALYTICAL RESULTS

Project: WA Lead - 110322

Pace Project No.: 258292

Sample: KSL-4		Lab ID: 258292005	Collected: 06/27/11 12:00		Received: 06/28/11 14:00		Matrix: Solid	
Results reported on a "dry-weight" basis								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	387	mg/kg	1.6	1	07/05/11 09:31	07/06/11 15:16	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	42.1	%	0.10	1		06/29/11 13:56		

Sample: KSL-5		Lab ID: 258292006	Collected: 06/27/11 12:05		Received: 06/28/11 14:00		Matrix: Solid	
Results reported on a "dry-weight" basis								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	86.9	mg/kg	1.1	1	07/05/11 09:31	07/06/11 15:19	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	15.9	%	0.10	1		06/29/11 13:57		

Sample: KSL-6		Lab ID: 258292007	Collected: 06/27/11 12:15		Received: 06/28/11 14:00		Matrix: Solid	
Results reported on a "dry-weight" basis								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	96.1	mg/kg	2.0	1	07/05/11 09:31	07/06/11 15:30	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	55.6	%	0.10	1		06/29/11 13:58		

Sample: KSL-7		Lab ID: 258292008	Collected: 06/27/11 12:20		Received: 06/28/11 14:00		Matrix: Solid	
Results reported on a "dry-weight" basis								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	65.4	mg/kg	1.3	1	07/05/11 09:31	07/06/11 15:34	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	34.2	%	0.10	1		06/29/11 13:59		

ANALYTICAL RESULTS

Project: WA Lead - 110322

Pace Project No.: 258292

Sample: KSL-8 **Lab ID: 258292009** Collected: 06/27/11 12:40 Received: 06/28/11 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	846	mg/kg	3.6	2	07/05/11 09:31	07/06/11 16:25	7439-92-1	D4
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	45.1	%	0.10	1		06/29/11 14:01		

Sample: KSL-9 **Lab ID: 258292010** Collected: 06/27/11 12:45 Received: 06/28/11 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	1580	mg/kg	9.0	5	07/05/11 09:31	07/06/11 16:29	7439-92-1	D4
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	45.8	%	0.10	1		06/29/11 14:02		

Sample: KSL-9b **Lab ID: 258292011** Collected: 06/27/11 12:50 Received: 06/28/11 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	68.9	mg/kg	0.96	1	07/05/11 09:31	07/06/11 15:45	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	15.4	%	0.10	1		06/29/11 14:03		

Sample: KSL-10 **Lab ID: 258292012** Collected: 06/27/11 12:55 Received: 06/28/11 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	2090	mg/kg	8.8	5	07/05/11 09:31	07/06/11 16:33	7439-92-1	D4
6010 MET ICP, TCLP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
		Leachate Method/Date: EPA 1311; 06/29/11 15:18						
Lead	11.2	mg/L	1.0	1	06/30/11 09:30	06/30/11 14:08	7439-92-1	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	45.6	%	0.10	1		06/29/11 14:04		

ANALYTICAL RESULTS

Project: WA Lead - 110322

Pace Project No.: 258292

Sample: KSL-11		Lab ID: 258292013		Collected: 06/27/11 13:05		Received: 06/28/11 14:00		Matrix: Solid	
Results reported on a "dry-weight" basis									
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	1060	mg/kg	5.2	2	07/05/11 09:31	07/06/11 16:36	7439-92-1	D4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	62.2	%	0.10	1		06/29/11 14:05			

Sample: KSL-511		Lab ID: 258292014		Collected: 06/27/11 13:10		Received: 06/28/11 14:00		Matrix: Solid	
Results reported on a "dry-weight" basis									
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	1420	mg/kg	12.7	5	07/05/11 09:31	07/06/11 16:40	7439-92-1	D4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	62.4	%	0.10	1		06/29/11 14:06			

Sample: KSL-BG		Lab ID: 258292015		Collected: 06/27/11 13:20		Received: 06/28/11 14:00		Matrix: Solid	
Results reported on a "dry-weight" basis									
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	9.8	mg/kg	1.4	1	07/05/11 09:31	07/06/11 16:00	7439-92-1		
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	31.8	%	0.10	1		06/29/11 14:07			

Sample: KSW-DWN		Lab ID: 258292016		Collected: 06/27/11 10:05		Received: 06/28/11 14:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead	ND ug/L	10.0	1	07/01/11 08:15	07/01/11 14:52	7439-92-1			
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead, Dissolved	ND ug/L	10.0	1	07/01/11 08:15	07/05/11 12:25	7439-92-1			
6020 MET ICPMS		Analytical Method: EPA 6020							
Lead	ND ug/L	0.10	1	07/15/11 11:58	07/16/11 15:52	7439-92-1			
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020							
Lead, Dissolved	ND ug/L	0.10	1	07/14/11 12:29	07/15/11 16:53	7439-92-1			

Date: 07/20/2011 11:49 AM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WA Lead - 110322

Pace Project No.: 258292

Sample: KSW-UP		Lab ID: 258292017		Collected: 06/27/11 11:15		Received: 06/28/11 14:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead	ND ug/L	10.0	1	07/01/11 08:15	07/01/11 14:55	7439-92-1			
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead, Dissolved	ND ug/L	10.0	1	07/01/11 08:15	07/05/11 12:42	7439-92-1			
6020 MET ICPMS		Analytical Method: EPA 6020							
Lead	ND ug/L	0.10	1	07/15/11 11:58	07/16/11 15:56	7439-92-1			
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020							
Lead, Dissolved	ND ug/L	0.10	1	07/14/11 12:29	07/15/11 16:58	7439-92-1			

Sample: KSW-GW		Lab ID: 258292018		Collected: 06/27/11 13:45		Received: 06/28/11 14:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead	57.5 ug/L	10.0	1	07/01/11 08:15	07/01/11 14:59	7439-92-1			
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead, Dissolved	ND ug/L	10.0	1	07/01/11 08:15	07/05/11 12:46	7439-92-1			
6020 MET ICPMS		Analytical Method: EPA 6020							
Lead	40.0 ug/L	0.20	2	07/15/11 11:58	07/17/11 13:14	7439-92-1			
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020							
Lead, Dissolved	ND ug/L	0.10	1	07/14/11 12:29	07/15/11 17:26	7439-92-1			

Sample: KSW-51DWN		Lab ID: 258292019		Collected: 06/27/11 13:10		Received: 06/28/11 14:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead	ND ug/L	10.0	1	07/01/11 08:15	07/01/11 15:02	7439-92-1			
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead, Dissolved	ND ug/L	10.0	1	07/01/11 08:15	07/05/11 12:50	7439-92-1			
6020 MET ICPMS		Analytical Method: EPA 6020							
Lead	ND ug/L	0.10	1	07/15/11 11:58	07/16/11 16:06	7439-92-1			
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020							
Lead, Dissolved	ND ug/L	0.10	1	07/14/11 12:29	07/15/11 17:30	7439-92-1			

QUALITY CONTROL DATA

Project: WA Lead - 110322

Pace Project No.: 258292

QC Batch:	MPRP/2312	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	258292001, 258292002, 258292003, 258292004, 258292005, 258292006, 258292007, 258292008, 258292009, 258292010, 258292011, 258292012, 258292013, 258292014, 258292015		

METHOD BLANK:	76682	Matrix:	Solid
Associated Lab Samples:	258292001, 258292002, 258292003, 258292004, 258292005, 258292006, 258292007, 258292008, 258292009, 258292010, 258292011, 258292012, 258292013, 258292014, 258292015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	07/06/11 14:47	

LABORATORY CONTROL SAMPLE: 76683						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	25	26.2	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 76684					76685						
Parameter	Units	258292001	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
		Result	Spike Conc.	Spike Conc.							
Lead	mg/kg	19.7	33.5	33.5	52.7	54.4	98	103	75-125	3	

QUALITY CONTROL DATA

Project: WA Lead - 110322

Pace Project No.: 258292

QC Batch: MPRP/2305

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET TCLP

Associated Lab Samples: 258292012

METHOD BLANK: 76164

Matrix: Water

Associated Lab Samples: 258292012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	ND	1.0	06/30/11 13:53	

LABORATORY CONTROL SAMPLE: 76165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	5	5.1	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 76166

76167

Parameter	Units	258278001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	mg/L	ND	5	5	5.2	5.2	102	101	75-125	.4	