

ANALYTICAL REPORT

Job Number: 580-5385-2

Job Description: Old Douglas Harbor

For:
PND Engineers, Inc.
1506 West 36th Ave.
Anchorage, AK 99503

Attention: Ms. Jennifer Lundberg

Katie Downie

Project Manager II

kdownie@stl-inc.com 05/31/2007

Project Manager: Katie Downie

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Case Narrative for job: 580-5385-2

Client: PND Engineers

Date: 05/31/2007

The additional mercury analyses were requested on May 22, 2007. This was outside of the standard 28 day hold time for mercury in environmental samples, and the results have been flagged "H".

MERCURY

Samples 580-5385-3 through 580-5385-6, 580-5385-8 and 580-5385-9 were analyzed for mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared on 05-24-2007 and analyzed on 05/25/2007, which was within outside method required holding times.

Samples 580-5385-3 through 580-5385-6, 580-5385-8 and 580-5385-9 required dilution prior to analysis.

The amount of mercury in sample 580-5385-3 was more than four times the matrix spike amount, and the normal control limits do not apply. The recoveries of mercury in the LCS and LCSD were acceptable.

No other difficulties were encountered during the mercury analyses.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples 580-5385-3 through 580-5385-12 were analyzed for percent solids in accordance with EPA Method 160.3 Modified. The samples were analyzed on 03/30/2007 and 04/03/2007, which was within the required method holding time.

No difficulties were encountered during the percent solids analyses.

All quality control parameters were within the acceptance limits.

METHOD SUMMARY

Client: PND Engineers, Inc. Job Number: 580-5385-2

Descript	ion	Lab Location	Method	Preparation Method
Matrix:	Solid			
Mercury in	n Solid or Semisolid Waste (Manual Cold Vapor	STL SEA	SW846 7471	4
4-	Mercury in Solid or Semi-Solid Waste (Manual	STL SEA		SW846 7471A

LAB REFERENCES:

STL SEA = STL Seattle

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: PND Engineers, Inc. Job Number: 580-5385-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-5385-3	PND07-5A	Solid	03/22/2007 1044	03/23/2007 1242
580-5385-4	PND07-5C	Solid	03/22/2007 1128	03/23/2007 1242
580-5385-5	PND07-6A	Solid	03/22/2007 1207	03/23/2007 1242
580-5385-6	PND07-6C	Solid	03/22/2007 1215	03/23/2007 1242
580-5385-8	PND07-7A	Solid	03/22/2007 1242	03/23/2007 1242
580-5385-9	PND07-7C	Solid	03/22/2007 1251	03/23/2007 1242

Client: PND Engineers, Inc. Job Number: 580-5385-2

Client Sample ID: PND07-5A

 Lab Sample ID:
 580-5385-3
 Date Sampled:
 03/22/2007
 1044

 Client Matrix:
 Solid
 % Moisture:
 31.5
 Date Received:
 03/23/2007
 1242

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 580-19077 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-18997 Lab File ID: N/A

Dilution: 20 Initial Weight/Volume: 0.5790 g
Date Analyzed: 05/25/2007 1336 Final Weight/Volume: 50 mL

Date Prepared: 05/24/2007 1626

Analyte DryWt Corrected: Y Result (mg/Kg) Qualifier MDL RL

Mercury 3.5 H 0.23 0.50

Client: PND Engineers, Inc. Job Number: 580-5385-2

Client Sample ID: PND07-5C

 Lab Sample ID:
 580-5385-4
 Date Sampled:
 03/22/2007
 1128

 Client Matrix:
 Solid
 % Moisture:
 34.3
 Date Received:
 03/23/2007
 1242

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 580-19077 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-18997 Lab File ID: N/A

Dilution: 20 Initial Weight/Volume: 0.5494 g
Date Analyzed: 05/25/2007 1401 Final Weight/Volume: 50 mL

Date Prepared: 05/24/2007 1626

Analyte DryWt Corrected: Y Result (mg/Kg) Qualifier MDL RL

Mercury 3.9 H 0.25 0.55

Client: PND Engineers, Inc. Job Number: 580-5385-2

Client Sample ID: PND07-6A

 Lab Sample ID:
 580-5385-5
 Date Sampled:
 03/22/2007
 1207

 Client Matrix:
 Solid
 % Moisture:
 31.1
 Date Received:
 03/23/2007
 1242

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 580-19077Instrument ID:SEA029Preparation:7471APrep Batch: 580-18997Lab File ID:N/A

Dilution: 20 Initial Weight/Volume: 0.5155 g
Date Analyzed: 05/25/2007 1405 Final Weight/Volume: 50 mL

Date Prepared: 05/24/2007 1626

Analyte DryWt Corrected: Y Result (mg/Kg) Qualifier MDL RL

Mercury 2.7 H 0.25 0.56

Client: PND Engineers, Inc. Job Number: 580-5385-2

Client Sample ID: PND07-6C

 Lab Sample ID:
 580-5385-6
 Date Sampled:
 03/22/2007
 1215

 Client Matrix:
 Solid
 % Moisture:
 27.7
 Date Received:
 03/23/2007
 1242

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 580-19077 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-18997 Lab File ID: N/A

Dilution: 20 Initial Weight/Volume: 0.6016 g
Date Analyzed: 05/25/2007 1410 Final Weight/Volume: 50 mL

Date Prepared: 05/24/2007 1626

Analyte DryWt Corrected: Y Result (mg/Kg) Qualifier MDL RL

Mercury 1.9 H 0.21 0.46

Client: PND Engineers, Inc. Job Number: 580-5385-2

Client Sample ID: PND07-7A

 Lab Sample ID:
 580-5385-8
 Date Sampled:
 03/22/2007 1242

 Client Matrix:
 Solid
 % Moisture:
 33.9
 Date Received:
 03/23/2007 1242

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:7471AAnalysis Batch: 580-19077Instrument ID:SEA029Preparation:7471APrep Batch: 580-18997Lab File ID:N/A

Dilution: 20 Initial Weight/Volume: 0.5692 g
Date Analyzed: 05/25/2007 1415 Final Weight/Volume: 50 mL

Date Prepared: 05/24/2007 1626

Analyte DryWt Corrected: Y Result (mg/Kg) Qualifier MDL RL

Mercury 2.1 H 0.24 0.53

Client: PND Engineers, Inc. Job Number: 580-5385-2

Client Sample ID: PND07-7C

 Lab Sample ID:
 580-5385-9
 Date Sampled:
 03/22/2007
 1251

 Client Matrix:
 Solid
 % Moisture:
 38.7
 Date Received:
 03/23/2007
 1242

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A Analysis Batch: 580-19077 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-18997 Lab File ID: N/A

Dilution: 20 Initial Weight/Volume: 0.6182 g
Date Analyzed: 05/25/2007 1430 Final Weight/Volume: 50 mL

Date Prepared: 05/24/2007 1626

Analyte DryWt Corrected: Y Result (mg/Kg) Qualifier MDL RL

Mercury 1.7 H 0.24 0.53

Client: PND Engineers, Inc. Job Number: 580-5385-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					-
Prep Batch: 580-18997					
LCS 580-18997/15-AA	Lab Control Spike	T	Solid	7471A	
LCSD 580-18997/16-AA	Lab Control Spike Duplicate	T	Solid	7471A	
LCSSRM 580-18997/17-AA	LCS-Standard Reference Material	T	Solid	7471A	
MB 580-18997/14-AA	Method Blank	T	Solid	7471A	
580-5385-3	PND07-5A	T	Solid	7471A	
580-5385-3DU	Duplicate	T	Solid	7471A	
580-5385-3MS	Matrix Spike	T	Solid	7471A	
580-5385-3MSD	Matrix Spike Duplicate	T	Solid	7471A	
580-5385-4	PND07-5C	T	Solid	7471A	
580-5385-5	PND07-6A	T	Solid	7471A	
580-5385-6	PND07-6C	Т	Solid	7471A	
580-5385-8	PND07-7A	Т	Solid	7471A	
580-5385-9	PND07-7C	Т	Solid	7471A	
Analysis Batch:580-19077					
LCS 580-18997/15-AA	Lab Control Spike	T	Solid	7471A	580-18997
_CSD 580-18997/16-AA	Lab Control Spike Duplicate	T	Solid	7471A	580-18997
LCSSRM 580-18997/17-AA	LCS-Standard Reference Material	T	Solid	7471A	580-18997
MB 580-18997/14-AA	Method Blank	T	Solid	7471A	580-18997
580-5385-3	PND07-5A	T	Solid	7471A	580-18997
580-5385-3DU	Duplicate	T	Solid	7471A	580-18997
580-5385-3MS	Matrix Spike	T	Solid	7471A	580-18997
580-5385-3MSD	Matrix Spike Duplicate	T	Solid	7471A	580-18997
580-5385-4	PND07-5C	Т	Solid	7471A	580-18997
580-5385-5	PND07-6A	T	Solid	7471A	580-18997
580-5385-6	PND07-6C	T	Solid	7471A	580-18997
580-5385-8	PND07-7A	Т	Solid	7471A	580-18997
580-5385-9	PND07-7C	Т	Solid	7471A	580-18997

Report Basis

T = Total

Job Number: 580-5385-2 Client: PND Engineers, Inc.

Method Blank - Batch: 580-18997 Method: 7471A Preparation: 7471A

Lab Sample ID: MB 580-18997/14-AA

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 05/25/2007 1449 Date Prepared: 05/24/2007 1626 Analysis Batch: 580-19077 Prep Batch: 580-18997

Units: mg/Kg

Instrument ID: SEA029 Lab File ID: N/A

Initial Weight/Volume: 0.5 g Final Weight/Volume: 50 mL

RL Analyte Result Qual MDL Mercury ND 0.0090 0.020

Laboratory Control/ Method: 7471A Laboratory Control Duplicate Recovery Report - Batch: 580-18997 Preparation: 7471A

LCS Lab Sample ID: LCS 580-18997/15-AA

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 05/25/2007 1454 Date Prepared: 05/24/2007 1626 Analysis Batch: 580-19077 Prep Batch: 580-18997

Units: mg/Kg

Instrument ID: SEA029 Lab File ID: N/A

Initial Weight/Volume: 0.5 g

Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD Client Matrix: Solid Dilution: 1.0

Date Analyzed: 05/25/2007 1459

Date Prepared: 05/24/2007 1626 Analysis Batch: 580-19077 Prep Batch: 580-18997

Units: mg/Kg

Instrument ID: SEA029 Lab File ID: N/A

Initial Weight/Volume: 0.5 g Final Weight/Volume: 50 mL

% Rec. **RPD** Analyte LCS LCSD Limit RPD Limit LCS Qual LCSD Qual 99 95 75 - 125 5 25 Mercury

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

Client: PND Engineers, Inc. Job Number: 580-5385-2

Laboratory Control/ Method: 7471A
Laboratory Duplicate Data Report - Batch: 580-18997 Preparation: 7471A

LCS Lab Sample ID: LCS

Units: mg/Kg

LCSD Lab Sample ID: LCSD

Client Matrix: Solid

Client Matrix: Solid

 Dilution:
 1.0
 Dilution:
 1.0

 Date Analyzed:
 05/25/2007 1454
 Date Analyzed:
 05/25/2007 1459

Date Prepared: 05/24/2007 1626 Date Prepared: 05/24/2007 1626

Analyte LCS Spike LCSD Spike LCS Result/Qual Result/Qual

Mercury 0.200 0.200 0.198 0.189

Matrix Spike/ Method: 7471A

Matrix Spike Duplicate Recovery Report - Batch: 580-18997 Preparation: 7471A

MS Lab Sample ID: 580-5385-3 Analysis Batch: 580-19077 Instrument ID: SEA029

Client Matrix: Solid Prep Batch: 580-18997 Lab File ID: N/A

Dilution: 20 Initial Weight/Volume: 0.5253 g
Date Analyzed: 05/25/2007 1351 Final Weight/Volume: 50 mL
Date Prepared: 05/24/2007 1626

MSD Lab Sample ID: 580-5385-3 Analysis Batch: 580-19077 Instrument ID: SEA029

Client Matrix: Solid Prep Batch: 580-18997 Lab File ID: N/A

 Dilution:
 20
 Initial Weight/Volume: 0.5618 g

 Date Analyzed:
 05/25/2007 1356
 Final Weight/Volume: 50 mL

 Date Prepared:
 05/24/2007 1626

% Rec. Analyte MS **MSD** Limit **RPD RPD Limit** MS Qual MSD Qual 272 75 - 125 Mercury 200 4 35 4 4

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

Client: PND Engineers, Inc. Job Number: 580-5385-2

Matrix Spike/ Method: 7471A

Matrix Spike Duplicate Data Report - Batch: 580-18997 Preparation: 7471A

MS Lab Sample ID: 580-5385-3 Units:mg/Kg MSD Lab Sample ID: 580-5385-3

Client Matrix: Solid
Dilution: 20

Client Matrix: Solid
Dilution: 20

 Date Analyzed:
 05/25/2007 1351
 Date Analyzed:
 05/25/2007 1356

 Date Prepared:
 05/24/2007 1626
 Date Prepared:
 05/24/2007 1626

MSD Spike MSD Sample MS Spike MS Amount Amount Result/Qual Result/Qual Result/Qual Analyte 3.5 0.278 0.260 4.08 4.23 Mercury

Matrix Duplicate - Batch: 580-18997 Method: 7471A Preparation: 7471A

Lab Sample ID: 580-5385-3 Analysis Batch: 580-19077 Instrument ID: SEA029 Client Matrix: Solid Prep Batch: 580-18997 Lab File ID: N/A

Dilution: 20 Units: mg/Kg Initial Weight/Volume: 0.5611 g
Date Analyzed: 05/25/2007 1342 Final Weight/Volume: 50 mL
Date Prepared: 05/24/2007 1626

Analyte Sample Result/Qual Result RPD Limit Qual

Mercury 3.5 3.43 3 35

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

DATA REPORTING QUALIFIERS

Client: PND Engineers, Inc. Job Number: 580-5385-2

Lab Section	Qualifier	Description
Metals		
	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.
	Н	Sample was prepped or analyzed beyond the specified holding time

Downie, Katie

From: Jennifer Lundberg [jennifer@pnd-anc.com]

Sent: Tuesday, May 22, 2007 4:32 PM

To: Downie, Katie

Subject: Old Douglas Harbor mercury only

Katie,

Please run the following samples for mercury only. Of course there are 23 to do.

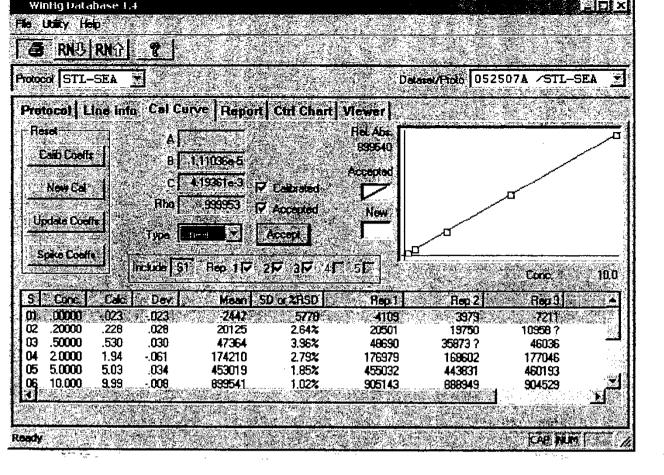
Thanks, Jennifer

PND07-02
A, B, & C
PND07-03
A& C
PND07-04
A& C
PND07-05
A& C
PND07-06
A& C
PND07-07
A& C
PND07-12
A& C
PND07-13
A& C
PND07-14
A& C
PND07-15
A& C
PND07-16
A& C
11 ACC

Jennifer Lundberg, CEP, MES | Senior Environmental Scientist P|N|D Engineers Inc., Consulting Engineers 1506 W 36th Avenue, Anchorage, AK 99503 p. 907.561.1011 f. 907.563.4220 c. 907.301.2738 jennifer@pnd-anc.com | www.pndengineers.com

DATA DELIVERABLES PACKAGE

TOTAL MERCURY DATA PACKAGE



GADS Strikes L

Folder: 052507A Page 1 Protocol: STL-SEA ***POST-RUN REPORT*** Line Conc. Units SD/RSD *** Standard: 1 Rep: 1 Seq: 0 10:39:45 25 May 07 HG Hg .000 PPB -4109 *** Standard: 1 Rep: 2 Seq: 1 10:44:36 25 May 07 HG Hg .000 PPB 3979 *** Standard: 1 Rep: 3 Seq: 2 10:49:16 25 May 07 HG Hg .000 PPB -7211 *** Standard: 2 Rep: 1 Seq: 3 10:53:56 25 May 07 HG Hg .200 PPB 20501 *** Standard: 2 Rep: 2 Seq: 4 10:58:59 25 May 07 HG Hg .200 PPB 19750 *** Standard: 2 Rep: 3 Seq: 5 11:03:50 25 May 07 HG Hg .200 PPB 10958 *** Standard: 3 Rep: 1 Seq: 6 11:08:40 25 May 07 HG Hg .500 PPB 48690 *** Standard: 3 Rep: 2 Seq: 7 11:13:20 25 May 07 HG Hg .500 PPB 35873 *** Standard: 3 Rep: 3 Seq: 8 11:18:24 25 May 07 HG Hg .500 PPB 46036 *** Standard: 4 Rep: 1 Seq: 9 11:23:06 25 May 07 HG Hg 2.00 PPB 176979 *** Standard: 4 Rep: 2 Seq: 10 11:27:48 25 May 07 HG Hg 2.00 PPB 168602

*** Standard: 4 Rep: 3 Seq: 11 11:32:30 25 May 07 HG Hg 2.00 PPB 177046 *** Standard: 5 Rep: 1 Seq: 12 11:37:32 25 May 07 HG Hg 5.00 PPB 455031 *** Standard: 5 Rep: 2 Seq: 13 11:42:23 25 May 07 Hq 5.00 PPB 443831 *** Standard: 5 Rep: 3 Seq: 14 11:47:19 25 May 07 Hg 5.00 PPB 460193

2

Protocol: STL-SEA
POST-RUN REPORT

Lin	e Conc.	Units	SD/I	***P	OST-RUN 1	REPO	ORT*** 3	4		5	•
***	Standard:	6 Rep:	1		Seq:	15	11:52:00	25	May	07	НG
Нg	10.0	PPB	9051	43							
***	Standard:	6 Rep:	2		Seq:	16	11:56:45	25	May	.07	НG
Нg	10.0	PPB	8889	49							
***	Standard:	6 Rep:	3		Seq:	17	12:01:26	25	May	07	НG
Нg	10.0	PPB	90452	29			•				
***	Sample II	: RINSE			Seq:	18	12:10:49	25	May	07	НG
Нg	054	PPB	.000	:СW нд#: } —	.054		12:10:49				
*** Lin		ndard:	3 Ck32 Found	PPB True	Seq: Units	19	12:15:29 SD/RSD				
*** Lin	Check Sta e Flag 9	ndard: Rcv. 98.8	4 Ck45 Found 4.94	PPB True 5.00	Seq: Units PPB	20	12:20:30 SD/RSD .000	25	May	07	HG
*** Line	Gheck Sta e Flag F 	ndard: 'ound Ra 040	1 Ck1BI nge(+/-) .200	LANK Units PPB	Seq:	.21 D/RSI .000	12:25:09	25	Мау-	≂ 0.7	HG
*** Lin Hg	Check Sta e Flag %	ndard: Rev. 97.0	4 Ck45 Found 4.85	PPB True 5.00	Seq: Units PPB	30	13:24:53 SD/RSD .000	25	May	07	HG
Line Hg	e Flag F	ound Rai	nge(+/-) .200	Units PPB	SI	0/RSI .000					
*** Hg	Sample II): 580-1 PPB	1	CW Hg#.	Seq: 1 (18997) 1.40	32 20X	13:36:58	25	May	·07	НG
***	Sample II	580-1			Seq:	33	13:42:19	25	==== Мау	07	HG
Нg	1.32	PPB	.000		1(18997) 1.32	120X					=
***	Sample II	: 580-1			Seq:		13:51:44	25	May	07	HG
Нg	1.47	PPB	.000		1 (18997) 1.47	20X					
***	Sample ID	: 580-1	570 44		Seq:	36	13:56:23	25	May	07	HG
Нg	1.63	PPB	.000) [1 (18997) 1.63				-		÷
***	Sample ID				Seq:	37	14:01:05	25	May	07	HG
Нg	1.42	PPB	.000		l(18997) L.42	20X					=

*** Sample ID: 580-157047 Seq: 39 14:10:28 25 May 07 HG FCW Hg#1(18997)20X Hg .841 PPB .000 .841

*** Sample ID: 580-157048 Seq: 40 14:15:37 25 May 07 HG FCW Hg#1(18997)20X Hg .780 PPB .000 .780

*** Check Standard: 4 Ck45 PPB Seq: 41 14:20:37 25 May 07 HG Line Flag %Rcv. Found True Units SD/RSD Hg 103. 5.17 5.00 PPB .000

*** Check Standard: 1 Ck1BLANK Seq: 42 14:25:19 25 May 07 HG Line Flag Found Range(+/-) Units SD/RSD Hg -.002 .200 PPB .000

*** Sample ID: 580-157049 Seq: 43 14:30:12 25 May 07 HG

FCW Hg#1(18997)20X

*** Sample ID: 580-157050 Seq: 44 14:35:15 25 May 07 HG FCW Hg#1(18997)20X Hg .249 PPB .000 .249

*** Sample ID: 580-157051 Seq: 45 14:40:28 25 May 07 HG FCW Hg#1(18997)20X Hg .496 PPB .000 .496

*** Sample ID: 580-157052 Seq: 46 14:45:18 25 May 07 HG FCW Hg#1(18997)20X

FCW Hg#1(189 Hg .843 PPB .000 .843

*** Sample ID: 580-157053 Seq: 47 14:49:59 25 May 07 HG FCW Hg#1(18997)
Hg .058 PPB .000 .058

*** Sample ID: 580-157054 Seq: 48 14:54:51 25 May 07 HG FCW Hg#1(18997) Hg 1.98 PPB .000 1.98

*** Sample ID: 580-157055 Seq: 49 14:59:33 25 May 07 HG

FCW Hg#1(18997) Hg 1.89 PPB .000 1.89

*** Sample ID: 580-157056 Seq: 50 15:04:35 25 May 07 HG FCW Hg#1(18997)
Hg 7.19 PPB .000 7.19

Page

Protocol: STL-SEA

POST-RUN REPORT Line Conc. Units SD/RSD 1 2 3 4 5 *** Check Standard: 4 Ck45 PPB Seq: 51 15:09:35 25 May 07 HG Line Flag %Rcv. Found True Units SD/RSD Hg 104. 5.21 5.00 PPB .000 *** Check Standard: 1 Ck1BLANK Seq: 52 15:14:27 25 May 07 HG Line Flag Found Range(+/-) Units SD/RSD Hg .069 .200 PPB .000 Seq: 53 15:19:19 25 May 07 HG *** Sample ID: 580-157064 Seq: 54 15:24:09 25 May 07 HG FCW Hg#1(18998)20X Hg 2.02 PPB .000 2.02 *** Sample ID: 580-157066 Seq: 56 15:33:37 25 May 07 HG FCW Hg#1(18998)20X Hg 1.94 PPB .000 1.94 *** Sample ID: 580-157067 Seq: 57 15:38:50 25 May 07 HG
FCW Hg#1(18998)20X
Hg 2.13 PPB .000 2.13 Hg 2.13 PPB *** Sample ID: 580-157068 Seq: 58 15:43:29 25 May 07 HG FCW Hg#1(18998)20X Hq 1.08 PPB .000 1.08 *** Sample ID: 580-157069 Seq: 59 15:48:19 25 May 07 HG FCW Hg#1(18998)20X Hg .769 PPB .000 .769 *** Sample ID: 580-157070 Seq: 60 15:53:28 25 May 07 HG FCW Hg#1(18998)20X Hg 1.35 PPB .000 1.35 *** Sample ID: 580-157071 Seq: 61 15:58:37 25 May 07 HG FCW Hg#1(18998)20X Hg .647 PPB .000 .647 *** Sample ID: 580-157072 Seq: 62 16:03:16 25 May 07 HG FCW Hg#1(18998)20X FCW Hg#1(18 Hg .778 PPB .000 .778 *** Check Standard: 4 Ck45 PPB Seq: 63 16:08:00 25 May 07 HG Line Flag %Rcv. Found True Units SD/RSD Hg 101. 5.04 5.00 PPB .000 *** Check Standard: 1 Ck1BLANK Seq: 64 16:12:42 25 May 07 Line Flag Found Range(+/-) Units SD/RSD Hg -.031 .200 PPB .000

Folder: 052507A

Page Protocol: STL-SEA ***POST-RUN REPORT*** Line Conc. Units SD/RSD 1 2 3 4 5 *** Sample ID: 580-157073 Seq: 65 16:17:22 25 May 07 HG FCW Hg#1(18998)20X Hg 2.02 PPB .000 2.02 *** Sample ID: 580-157074 Seq: 66 16:22:16 25 May 07 HG
FCW Hg#1(18998)20X
Hg 1.78 PPB .000 1.78 *** Sample ID: 580-157075 Seq: 67 16:26:56 25 May 07 HG FCW Hg#1(18998)20X Hg 1.53 PPB .000 1.53 *** Sample ID: 580-157076 Seq: 68 16:31:38 25 May 07 HG FCW Hg#1(18998)20X Hg .087 PPB .000 .087 *** Sample ID: 580-157077 Seq: 69 16:37:03 25 May 07 HG FCW Hq#1(18998)20X Hg 1.34 PPB .000 1.34 *** Sample ID: 580-157078 Seq: 70 16:41:58 25 May 07 HG FCW Hg#1(18998)20X Hg .394 PPB .000 .394 *** Sample ID: 580-157079 Seq: 71 16:46:49 25 May 07 HG FCW Hg#1(18998)20X Hg 1.22 PPB .000 1.22 *** Sample ID: 580-157080 Seq: 72 16:51:29 25 May 07 HG FCW Hg#1(18998)20X Hg .755 PPB .000 .755 *** Check Standard: 4 Ck45 PPB Seq: 73 16:56:11 25 May 07 Line Flag %Rcv. Found True Units SD/RSD 99.1 4.95 5.00 PPB .000 *** Check Standard: 1 Ck1BLANK Seq: 74 17:00:50 25 May 07 Line Flag Found Range(+/-) Units SD/RSD Hg -.033 .200 PPB .000 *** Sample ID: 580-157081 Seq: 7 Seq: 75 17:05:32 25 May 07 HG Hg -.047 PPB .000 -.047 _________ *** Sample ID: 580-157082 Seq: 76 17:10:16 25 May 07 HG FCW Hg#1(18998)
Hg 1.79 PPB .000 1.79 *** Sample ID: 580-157083 Seq: 77 17:15:17 25 May 07 HG FCW Hg#1(18998)
Hg 1.74 PPB .000 1.74

				Pro	der: tocol: OST-RUN	STL-S	EA				Page	6
Line	Conc.	Units	SD/RS	SD	1	2	3	4		5		
	•		157084 F0 .000	CW Hg#	1(18998		17:20:03	25	May	07	НG	_
Line	Flag 9	Rcy.	4 Ck45 Found 4.88	True	Units			25	_	07	НG	-
Line	Flag I	Found R	1 Ck1BL/ ange(+/-) .200	Units	S		17:29:40	25	May	07 [.]	НG	=
*** S	ample II	0.5	PPB F(CW Hg#	•	82	17:39:51	25	May	07	HG	=
Hg	.443	PPB	.000									

LABORATORY WORKSHEETS

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-18997

Method Code: 580-7471A_Prep-580

Analyst: Boardway, Peter A

Batch Open: 5/24/2007 4:26:47PM

Batch End:

Mercury in Solid or Semi-Solid Waste (Manual Cold Vapor Technique)/Preparation

Output Sample Lab ID															
Comments															
Div Rank	4	4	4	4	4	4	4	4	4	4	4	4	4	Α/N	Y.
Analytical TAT	4_Days - R	4_Days - R	4_Days - R	4_Days - R	4_Days - R	4_Days - R	4_Days - R	4_Days - R	4_Days - R	4_Days - R	4_Days - R	4_Days - R	4_Days - R	N/A	N/A
Due Date	5/30/07	5/30/07	5/30/07	5/30/07	5/30/07	5/30/07	5/30/07	5/30/07	5/30/07	5/30/07	5/30/07	5/30/07	5/30/07	N/A	N/A
Final	50 mL	50 mL	50 mL	50 mL	50 mL	50 mL	50 mL	50 mL	50 mL	50 mL	50 mL	50 mL	50 mL	50 mL	50 mL
Initial Amount	0.5790 g	0.5611 g	0.5375 g	0.5253 g	0.5618g	0.5494 g	0.5155 g	0.6016 g	0.5692 g	0.6182 g	0.6620 g	0.6082 g	0.5678 g	0.5 g	0.5 g
Matrix	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid		
SDG	N/A	Α'N	¥/N	N/A	N/A	NA	N/A	N/A	¥,ν	NA	N/A	N/A	N/A	N/A	N/A
Input Sample Lab ID (Analytical Method)	580-5385-B-3 (7471A)	580-5385-B-3~DU (7471A)	580-5385-B-3~DU (7471A)	580-5385-B-3-MS d (7471A)	580		ω 580-5385-B-5 Η (7471A)	580-5385-B-6 (7471A)	580-5385-B-8 (7471A)	580-5385-B-9 (7471A)	580-5407-C-2 (7471A)	580-5407-C-3 (7471A)	580-5407-C-4 (7471A)	MB~580-18997/14 N/A	LČS~580-18997/15 N/A
	-	7	ဗ	4	က	ဖ	7	œ	တ	5	7	12	13	4	15

Printed: 5/25/2007

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Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-18997

17

9

Analyst: Boardway, Peter A

Batch Open: 5/24/2007 4:26:47PM

Method Code: 580-7471A_Prep-580 Batch End: LCSD-580-18997/16 N/A N/A <t< th=""><th>Datel Namber, 300-1033</th><th>160</th><th>₹</th><th>alyst. Dog</th><th>Alialyst. Doaluway, Felei A</th><th>C</th><th></th><th>Datell Opell. Jiz.</th><th>Date: 0/4/2001 4:20:47 FIN</th></t<>	Datel Namber, 300-1033	160	₹	alyst. Dog	Alialyst. Doaluway, Felei A	C		Datell Opell. Jiz.	Date: 0/4/2001 4:20:47 FIN
N/A 0.59 50 mL N/A	Method Code: 580-747	1A_Prep-580						Batch End:	
N/A 0.1172 g 50 mL N/A N/A	LCSD~580-18997/16 N/A	ΑΝ	0.5 g	50 mL	A'A	N/A	A/N		
	LCSSRM-580-18997/17 N/A	N/A	0.1172 g	50 mL	NA	N/A	A/A	\$	

STL Seattle

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

თ ∑	Batch Number: 580-18997 Method Code: 580-7471A_Prep-580	Analyst: Boardway, Peter A	Batch Open: 5/24/2007 4:26:47PM Batch End:	5/24/2007	4:26:47PM
		Batch Notes			
	Hydroxylamine Sulfate Lot Number 056527	5527			
	Hydroxylamine Hydrochloride Lot				
	Acid used for pH adjustment				
	Aqua Regia Lot Number				
	Balance ID SEA204	A204			
Рa	Batch Comment				
ge	Blank Soil Lot Number				
29 (Sulfuric Acid Lot Number				
OI 3	Lot # of hydrochloric acid 4106110	06110			
31	Lot # of Nitric Acid 1106122	06122			
	Hood ID or number 6				
	Hot Block ID number 226752	6752			
	Potassium Persulfate Lot Number 60384	384			
		045936			
	NaCL Lot # 301	30198			
	Oven, Bath or Block Temperature 1				
	Oven, Bath or Block Temperature 2				

Stannous chloride Lot Number 060944

SOP Number

Repittetor Volume Check

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Open: 5/24/2007 4:26:47PM Batch End: Analyst: Boardway, Peter A ID number of the thermometer 15-041-1A **DigestionTubes** Method Code: 580-7471A_Prep-580 Batch Number: 580-18997

Comments

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STL Seattle

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-18997

Method Code: 580-7471A_Prep-580

Analyst: Boardway, Peter A

Batch Open: 5/24/2007 4:26:47PM

Batch End:

Reagent Additions Worksheet

	Doort Code	Adda A	7 4 4		71791
	neagent code	Allouiit Added	rillai Amount	ρ	WITHOSS
580-5385-B-3 MS	HgSPK_00010	1 mL	20 mL		
580-5385-B-3 MSD	HgSPK_00010	1 mL	50 mL		
LCS 580-18997/15	HgSPK_00010	1 mL	50 mL		
LCSD 580-18997/16	HgSPK_00010	1 mL	50 mL		
Pā					
ge 3		Other	Other Reagents:		
Reagent		Amol	Amount/Units		Lot#:
-31					
	0 0 0 0 0 0 0				