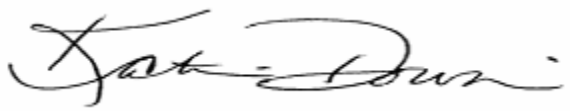
ANALYTICAL REPORT

Job Number: 580-5407-2

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

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

Case Narrative for job: 580-5407-2

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 580-5407-2 through 580-5407-4 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 580-5407-2 through 580-5407-4 required dilution prior to analysis.

The amount of mercury in batch QC 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 580-5407-2 through 580-5407-6 were analyzed for percent solids in accordance with EPA Method 160.3 Modified. The samples were analyzed on 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: 580-5407-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	STL SEA	SW846 7471A	
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: 580-5407-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-5407-2	PND07-2A	Solid	03/24/2007 1103	03/26/2007 1300
580-5407-3	PND07-2B	Solid	03/24/2007 1126	03/26/2007 1300
580-5407-4	PND07-2C	Solid	03/24/2007 1140	03/26/2007 1300

Client: PND Engineers, Inc. Job Number: 580-5407-2

Client Sample ID: PND07-2A

Lab Sample ID:	580-5407-2		Date Sampled: 03/24/2007 1103
Client Matrix:	Solid	% Moisture: 19.4	Date Received: 03/26/2007 1300

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:	0.6620 g
Date Analyzed:	05/25/2007 1435			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2007 1626				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.47	H	0.17	0.37

Client: PND Engineers, Inc. Job Number: 580-5407-2

Client Sample ID: PND07-2B

Lab Sample ID:	580-5407-3		Date Sampled: 03/24/2007 1126
Client Matrix:	Solid	% Moisture: 18.4	Date Received: 03/26/2007 1300

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:	0.6082 g
Date Analyzed:	05/25/2007 1440			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2007 1626				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		1.0	H	0.18	0.40

Client: PND Engineers, Inc. Job Number: 580-5407-2

Client Sample ID: PND07-2C

Lab Sample ID:	580-5407-4		Date Sampled: 03/24/2007 1140
Client Matrix:	Solid	% Moisture: 17.5	Date Received: 03/26/2007 1300

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:	0.5678 g
Date Analyzed:	05/25/2007 1445			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2007 1626				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		1.8	H	0.19	0.43

Client: PND Engineers, Inc. Job Number: 580-5407-2

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-B-3-B DU	Duplicate	T	Solid	7471A	
580-5385-B-3-D MS	Matrix Spike	T	Solid	7471A	
580-5385-B-3-E MSD	Matrix Spike Duplicate	T	Solid	7471A	
580-5407-2	PND07-2A	T	Solid	7471A	
580-5407-3	PND07-2B	T	Solid	7471A	
580-5407-4	PND07-2C	T	Solid	7471A	
Analysis Batch:580-19077					
LCS 580-18997/15-AA	Lab Control Spike	T	Solid	7471A	580-18997
LCSD 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-B-3-B DU	Duplicate	T	Solid	7471A	580-18997
580-5385-B-3-D MS	Matrix Spike	T	Solid	7471A	580-18997
580-5385-B-3-E MSD	Matrix Spike Duplicate	T	Solid	7471A	580-18997
580-5407-2	PND07-2A	T	Solid	7471A	580-18997
580-5407-3	PND07-2B	T	Solid	7471A	580-18997
580-5407-4	PND07-2C	T	Solid	7471A	580-18997

Report Basis
T = Total

Client: PND Engineers, Inc. Job Number: 580-5407-2

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

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.0090	0.020

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 580-18997

Method: 7471A
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

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

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

Client: PND Engineers, Inc. Job Number: 580-5407-2

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-18997

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/25/2007 1454
Date Prepared: 05/24/2007 1626

Units: mg/Kg

LCSD Lab Sample ID: LCSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/25/2007 1459
Date Prepared: 05/24/2007 1626

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Mercury	0.200	0.200	0.198	0.189

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-18997

Method: 7471A
Preparation: 7471A

MS Lab Sample ID: 580-5385-B-3-D MS
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/25/2007 1351
Date Prepared: 05/24/2007 1626

Analysis Batch: 580-19077
Prep Batch: 580-18997

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5253 g
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 580-5385-B-3-E MSD
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/25/2007 1356
Date Prepared: 05/24/2007 1626

Analysis Batch: 580-19077
Prep Batch: 580-18997

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5618 g
Final Weight/Volume: 50 mL

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

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

Client: PND Engineers, Inc. Job Number: 580-5407-2

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-18997

Method: 7471A
Preparation: 7471A

MS Lab Sample ID: 580-5385-B-3-D MS
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/25/2007 1351
Date Prepared: 05/24/2007 1626

Units: mg/Kg

MSD Lab Sample ID: 580-5385-B-3-E MS
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/25/2007 1356
Date Prepared: 05/24/2007 1626

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Mercury	3.5	0.278	0.260	4.08	4	4.23	4

Matrix Duplicate - Batch: 580-18997

Method: 7471A
Preparation: 7471A

Lab Sample ID: 580-5385-B-3-B DU
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/25/2007 1342
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: 0.5611 g
Final Weight/Volume: 50 mL

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: 580-5407-2

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.
	H	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

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

WinHg Database 1.4

File Utility Help

Protocol STL-SEA

Dataset/Proto 052507A /STL-SEA

Protocol | Line Info | Cal Curve | Report | Ctrl Chart | Viewer

Retel: Calib Coeff | New Cal | Update Coeffs | Spike Coeffs

A: 0

B: 1.11036e-5

E: 4.19361e-3

Rho: .999963

Calibrated ☑ Accepted ☑

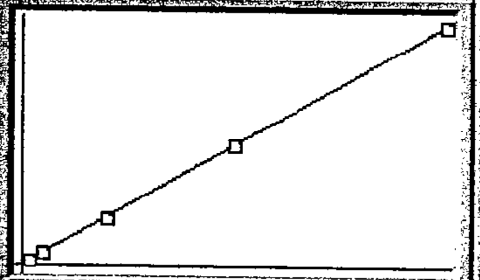
Type: Linear | Accept

Include: S ☑ Rep 1 ☑ 2 ☑ 3 ☑ 4 ☐ 5 ☐

Rel Abs 899540

Accepted

New



S	Conc	Calc	Dev	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	.023	.023	2447	5770	4109	3979	7211
02	.20000	.228	.028	20125	2.64%	20501	19750	10958 ?
03	.50000	.530	.030	47364	3.96%	48690	35873 ?	46036
04	2.0000	1.94	-.061	174210	2.79%	176979	168602	177046
05	5.0000	5.03	.034	453019	1.85%	455032	443831	460193
06	10.000	9.99	-.008	899541	1.02%	905143	888949	904529

Ready CAP NUM

STDS 5/25/07

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** 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			HG
Hg	5.00	PPB	443831						
*** Standard: 5 Rep: 3				Seq: 14		11:47:19 25 May 07			HG
Hg	5.00	PPB	460193						

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 6 Rep: 1 Seq: 15 11:52:00 25 May 07 HG

Hg 10.0 PPB 905143

*** Standard: 6 Rep: 2 Seq: 16 11:56:45 25 May 07 HG

Hg 10.0 PPB 888949

*** Standard: 6 Rep: 3 Seq: 17 12:01:26 25 May 07 HG

Hg 10.0 PPB 904529

*** Sample ID: RINSE Seq: 18 12:10:49 25 May 07 HG

FCW Hg#1

Hg -.054 PPB .000 -.054

*** Check Standard: 3 Ck32 PPB Seq: 19 12:15:29 25 May 07 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		91.9	1.84	2.00	PPB	.000

*** Check Standard: 4 Ck45 PPB Seq: 20 12:20:30 25 May 07 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.8	4.94	5.00	PPB	.000

*** Check Standard: 1 Ck1BLANK Seq: 21 12:25:09 25 May 07 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.040	.200	PPB	.000

*** Check Standard: 4 Ck45 PPB Seq: 30 13:24:53 25 May 07 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.0	4.85	5.00	PPB	.000

*** Check Standard: 1 Ck1BLANK Seq: 31 13:29:42 25 May 07 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.091	.200	PPB	.000

*** Sample ID: 580-157040 Seq: 32 13:36:58 25 May 07 HG

FCW Hg#1(18997)20X

Hg 1.40 PPB .000 1.40

*** Sample ID: 580-157041 Seq: 33 13:42;19 25 May 07 HG

FCW Hg#1(18997)20X

Hg 1.32 PPB .000 1.32

*** Sample ID: 580-157043 Seq: 35 13:51:44 25 May 07 HG

FCW Hg#1(18997)20X

Hg 1.47 PPB .000 1.47

*** Sample ID: 580-157044 Seq: 36 13:56:23 25 May 07 HG

FCW Hg#1(18997)20X

Hg 1.63 PPB .000 1.63

*** Sample ID: 580-157045 Seq: 37 14:01:05 25 May 07 HG

FCW Hg#1(18997)20X

Hg 1.42 PPB .000 1.42

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 580-157046 Seq: 38 14:05:48 25 May 07 HG
FCW Hg#1(18997)20X

Hg	.945	PPB	.000	.945	

*** 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

Hg	.636	PPB	.000	.636	

*** 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

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	

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

*** Sample ID: 580-157063 Seq: 53 15:19:19 25 May 07 HG
FCW Hg#1(18998)20X
Hg 2.19 PPB .000 2.19

*** 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

*** Sample ID: 580-157068 Seq: 58 15:43:29 25 May 07 HG
FCW Hg#1(18998)20X
Hg 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
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 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg -.031 .200 PPB .000

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 Hg#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 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.1	4.95	5.00	PPB	.000

*** Check Standard: 1 Ck1BLANK Seq: 74 17:00:50 25 May 07 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.033	.200	PPB	.000

*** Sample ID: 580-157081 Seq: 75 17:05:32 25 May 07 HG
FCW Hg#1(18998)

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	

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 580-157084 Seq: 78 17:20:03 25 May 07 HG

FCW Hg#1(18998)

Hg	7.61	PPB	.000	7.61

*** Check Standard: 4 Ck45 PPB Seq: 79 17:24:57 25 May 07 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.5	4.88	5.00	PPB	.000

*** Check Standard: 1 Ck1BLANK Seq: 80 17:29:40 25 May 07 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.059	.200	PPB	.000

*** Sample ID: 0.5 PPB Seq: 82 17:39:51 25 May 07 HG

FCW Hg#1

Hg	.443	PPB	.000	.443

LABORATORY WORKSHEETS

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-18997

Analyst: Boardway, Peter A

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

Method Code: 580-7471A_Prep-580

Batch End:

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

	Input Sample Lab ID (Analytical Method)	SDG	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1	580-5385-B-3 (7471A)	N/A	Solid	0.5790 g	50 mL	5/30/07	4_Days - R	4		
2	580-5385-B-3~DU (7471A)	N/A	Solid	0.5611 g	50 mL	5/30/07	4_Days - R	4		
3	580-5385-B-3~DU (7471A)	N/A	Solid	0.5375 g	50 mL	5/30/07	4_Days - R	4		
4	580-5385-B-3~MS (7471A)	N/A	Solid	0.5253 g	50 mL	5/30/07	4_Days - R	4		
5	580-5385-B-3~MSD (7471A)	N/A	Solid	0.5618 g	50 mL	5/30/07	4_Days - R	4		
6	580-5385-B-4 (7471A)	N/A	Solid	0.5494 g	50 mL	5/30/07	4_Days - R	4		
7	580-5385-B-5 (7471A)	N/A	Solid	0.5155 g	50 mL	5/30/07	4_Days - R	4		
8	580-5385-B-6 (7471A)	N/A	Solid	0.6016 g	50 mL	5/30/07	4_Days - R	4		
9	580-5385-B-8 (7471A)	N/A	Solid	0.5692 g	50 mL	5/30/07	4_Days - R	4		
10	580-5385-B-9 (7471A)	N/A	Solid	0.6182 g	50 mL	5/30/07	4_Days - R	4		
11	580-5407-C-2 (7471A)	N/A	Solid	0.6620 g	50 mL	5/30/07	4_Days - R	4		
12	580-5407-C-3 (7471A)	N/A	Solid	0.6082 g	50 mL	5/30/07	4_Days - R	4		
13	580-5407-C-4 (7471A)	N/A	Solid	0.5678 g	50 mL	5/30/07	4_Days - R	4		
14	MB~580-18997/14 N/A	N/A		0.5 g	50 mL	N/A	N/A	N/A		
15	LCS~580-18997/15 N/A	N/A		0.5 g	50 mL	N/A	N/A	N/A		

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-18997 Analyst: Boardway, Peter A Batch Open: 5/24/2007 4:26:47PM

Method Code: 580-7471A_Prep-580 Batch End:

16	LCSD~580-18997/16 N/A	N/A		0.5 g	50 mL	N/A	N/A	N/A		580-187853
17	LCSSRM~580-18997/17 N/A	N/A		0.1172 g	50 mL	N/A	N/A	N/A		580-187866

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:

Batch Notes

Hydroxylamine Sulfate Lot Number	056527
Hydroxylamine Hydrochloride Lot	
Acid used for pH adjustment	
Aqua Regia Lot Number	
Balance ID	SEA204
Batch Comment	
Blank Soil Lot Number	
Sulfuric Acid Lot Number	
Lot # of hydrochloric acid	4106110
Lot # of Nitric Acid	1106122
Hood ID or number	6
Hot Block ID number	226752
Potassium Persulfate Lot Number	60384
Potassium Permanganate Lot Number	045936
NaCL Lot #	30198
Oven, Bath or Block Temperature 1	
Oven, Bath or Block Temperature 2	
Repittetor Volume Check	
Stannous chloride Lot Number	060944
SOP Number	

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-18997

Analyst: Boardway, Peter A

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

Method Code: 580-7471A_Prep-580

Batch End:

ID number of the thermometer 15-041-1A

DigestionTubes

Comments

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

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
580-5385-B-3 MS	HgSPK_00010	1 mL	50 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		

Other Reagents:

Reagent	Amount/Units	Lot#: