

SEVERN
TRENT

STL

SEVERN TRENT LABORATORIES
ANALYTICAL REPORT

JOB NUMBER: 214949

Prepared For:

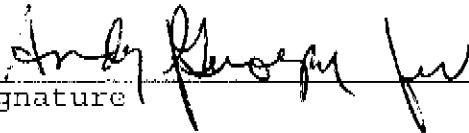
SCS Engineers, Inc.
10401 Holmes Road
Suite 400
Kansas City, MO 64131

Project: GSA - Hardesty Federal Center Photo Lab

Attention: David Brewer

Date: 02/14/2003

Signature



Date

2-14-03

Name: Eric A. Lang

STL Chicago

Title: Project Manager

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Severn Trent Laboratories - Chicago
METALS CASE NARRATIVE

Client: SCS Engineers, Inc.
Project: GSA - Hardesty
STL#: 214949

Date Rec'd: 01/3103

1. This narrative covers Metals analysis of TCLP Leachates in the above Job 214949.

Method Refs: USEPA, SW-846

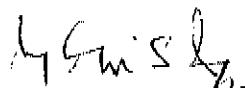
(Samples 1, 14 & 20 - Due to limited volume, 25 gms was used for extraction)

2. All analyses were performed within the required holding times.
3. All Initial and Continuing Calibration Verification (ICV/CCVs) were within control limits.
4. All Initial and Continuing Calibration Blanks (ICB/CCB's) were within control limits.
5. All ICP Interference (ICSA/ICSAB) check Standards were within control limits.
6. All Preparation/Method Blanks were less than the Reporting Limits.
7. Laboratory Control Sample (LCS) recoveries were within the 80-120% control limit.
8. Matrix QC was performed on samples 1 & 14 for Silver and sample 20 for Mercury.

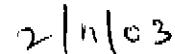
All Serial dilution analysis were within control limits.

All Matrix Spike recoveries were greater than 50%..

All Duplicate results were within control limits.



Mani S. Iyer
Metals Section Manager



Date

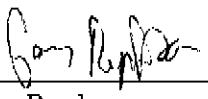
Severn Trent Laboratories - Chicago
GC/MS BNA Case Narrative

SCS Engineering, Inc./GSA-HARDESTY

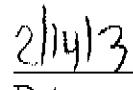
Job Number: 214949

BNA DATA:

1. All extractions and analyses were performed within recommended hold times.
2. The MB (Method Blank), had all target compounds below the contract required quantitation limit (CRQL).
3. A full list BNA LCS (Laboratory Control Sample) spike solution was used (100 µg/mL) and 1.0 mL was spiked in the LCS (prep batch 75296). In-house statistical recovery limits and the 11 method control compounds were used for QC evaluation. All control spike recoveries were within the QC limits in the LCS.
4. A MS/MSD (Matrix Spike/Matrix Spike Duplicate) analysis was not performed.
5. The BNA surrogate spike solution (Acids at 150 µg/mL, and 150 Base-Neutral at 100 µg/mL) was used and 0.5 mL was spiked in all samples. All samples had all surrogate recoveries within in-house generated QC limits. The secondary dilution had all surrogate recoveries reported as "D".
6. All analyses were performed following USEPA SW846 8270C protocol. The sample -18 had the first four internal standards above the QC limit. The sample was re-analyzed at 400x for a target dilution with acceptable internal standards. No further corrective action was required. All other samples had internal standard areas and retention times within the acceptance limits as compared to the corresponding calibration verification standard.
7. The samples were extracted and analyzed as low-level soils, therefore, normal detection limits apply. A secondary dilution to accurately quantitate a target compound was performed on the sample -18 (400x). The results and reporting limits were adjusted to account for the dilution performed. The results are on a dry weight basis.



Gary Rynkar
GC/MS Section Manager



Date

STL, Chicago
PCB Case Narrative

SCS Engineers, Inc.
GSA - Hardesty Federal Center Photo Lab
Job #: 214949-17 and 19
PCBs

1. STL Chicago used the following Gas Chromatographic systems for the analysis of PCBs:

ID#	INSTRUMENT	COLUMN TYPE	DETECTOR
38	IIP6890	Rtx-35	Electron Capture
37	HP6890	Rtx-5	Electron Capture

2. These soil samples were extracted based on SW846 method 3580. All extracts were analyzed for PCBs based on SW846 method 8082. All extracts received a sulfuric acid cleanup and a sulfur cleanup in order to reduce matrix interference.
3. All required holding times were met for the extraction and analysis.
4. The method blank was below the reporting limits for all Aroclors.
5. The surrogate compounds used for this analysis were Decachlorobiphenyl (DCB) and Tetrachloro-m-xylene (TCX). All surrogate recoveries were within statistical control limits except 214949-19 (MAIN FLOOR SPILL), which had both surrogates diluted out (flagged "D").
6. A solution containing Aroclor 1016 and Aroclor 1260 was used for spiking.
7. The blank spike recoveries were within statistical control limits.
8. A matrix spike and a matrix spike duplicate were not performed on a sample from this SDG.
9. All initial and continuing standard calibrations associated with these samples were in control on both columns.
10. Target compounds were confirmed using a second (Rtx-5) column.
11. Sample 214949-19 was analyzed at a 1/20 dilution due to level of target compounds detected. Reporting limits have been adjusted to reflect these necessary dilutions.

Patti Gibson
Patti Gibson
Organics Section Manager

2/12/03
Date

STL Chicago
Extractable Hydrocarbon Case Narrative

SCS Engineers, Inc.
GSA - Hardesty Federal Center Photo Lab
Job #: 214949-17 and 19
Diesel Range Organics (DRO)
Motor Oil Range Organics (MRO)

1. These soil samples were extracted based on SW846 method 3580. A 1-gram sample size was used and the extracts were brought up to a final volume of 10 mLs. All extracts were analyzed for DRO and MRO based on SW846 method 8015B. A HP5890 gas chromatograph equipped with a flame ionization detector and a Xti-5 column was used for the analysis.
2. All required holding times were met for the extraction and analysis.
3. The method blank was below the reporting limit for DRO and MRO.
4. The surrogate compounds used for this analysis were o-Terphenyl and 2-Fluorobiphenyl. All surrogate recoveries were within statistical control limits except the samples, which were diluted out (flagged "D").
5. The blank spike and blank spike duplicate recovery and RPD were within the statistical control limits. A solution of Diesel Fuel was used for spiking.
6. A matrix spike and a matrix spike duplicate were not performed on a sample from this SDG.
7. A Diesel Fuel #2 standard was used for quantitating DRO results, using a hydrocarbon range from C10 through C20. A Motor Oil standard was used for quantitating MRO results, using a hydrocarbon range from C20 to C34. An alkane standard ranging from C8 through C36 was analyzed for qualitative purposes.
8. All initial and continuing standard calibrations associated with these samples were in control for target compounds.
9. The DRO and MRO detected in these samples do not appear to match a typical fuel or oil pattern but rather a large peak in sample 214949-17 and a series of smaller peaks in sample 214949-19.

Patti Gibson
Patti Gibson
Organics Section Manager

2/12/03
Date

STL Chicago is part of Severn Trent Laboratories, Inc.

S A M P L E I N F O R M A T I O N
Date: 02/14/2003

Job Number.: 214949
Customer...: SCS Engineers, Inc.
Attn.....: David Brewer

Project Number.....: 20002955
Customer Project ID....: GSA - HARDESTY
Project Description....: GSA - Hardesty Federal Center Photo Lab

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
214949-1	FD 1	Soil	01/29/2003	14:40	01/31/2003	09:30
214949-2	FD 2	Soil	01/30/2003	10:15	01/31/2003	09:30
214949-3	FD 3	Soil	01/30/2003	10:00	01/31/2003	09:30
214949-4	FD 4	Soil	01/29/2003	14:15	01/31/2003	09:30
214949-5	FD 5	Soil	01/29/2003	13:55	01/31/2003	09:30
214949-6	FD 6	Soil	01/29/2003	15:25	01/31/2003	09:30
214949-7	FD 7	Soil	01/29/2003	16:20	01/31/2003	09:30
214949-8	FD 8	Soil	01/29/2003	15:45	01/31/2003	09:30
214949-9	FD 9	Soil	01/29/2003	15:05	01/31/2003	09:30
214949-10	FD 10	Soil	01/29/2003	15:00	01/31/2003	09:30
214949-11	FD 11	Soil	01/30/2003	09:45	01/31/2003	09:30
214949-12	FD 12	Soil	01/30/2003	09:30	01/31/2003	09:30
214949-13	FD 13	Soil	01/30/2003	09:00	01/31/2003	09:30
214949-14	FD 14	Soil	01/30/2003	10:30	01/31/2003	09:30
214949-15	SUMP1	Soil	01/30/2003	10:20	01/31/2003	09:30
214949-16	SUMP2	Soil	01/30/2003	10:45	01/31/2003	09:30
214949-17	CHEMICAL FEED PUMP	Soil	01/29/2003	14:20	01/31/2003	09:30
214949-18	BASEMENT PHOTO LAB FLOOR SPILL	Soil	01/29/2003	15:05	01/31/2003	09:30
214949-19	MAIN FLOOR SPILL	Soil	01/29/2003	14:45	01/31/2003	09:30
214949-20	INCINERATOR	Soil	01/29/2003	14:20	01/31/2003	09:30

Job Number: 214949

L A B O R A T O R Y T E S T R E S U L T S

Date: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Customer Sample ID: FD 1
 Date Sampled.....: 01/29/2003
 Time Sampled.....: 14:40
 Sample Matrix....: Soil

Laboratory Sample ID: 214949-1
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	MDL	RL	DILUTION	UNITS	BATCH ID	DATE/TIME	TECH
9045C	pH (Soil) pH, Solid Temperature at Analysis, Solid	6.5 21.5		0.2 1.0	1	pH Units	75048 75048	02/03/03 02/03/03	1721 1721	hrp hrp
6010B	Leachable Metals Analysis (ICAP) Silver, TCLP Leach	0.050	U	0.005	0.050	mg/L	75392	02/06/03	1507	lmr

Job Number: 214949

LABORATORY TEST RESULTS

Date:02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Customer Sample 10: FD 2
 Date Sampled.....: 01/30/2003
 Time Sampled.....: 10:15
 Sample Matrix....: Soil

Laboratory Sample 10: 214949-2
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9045C	pH (Soil) pH, Solid Temperature at Analysis, Solid	6.5 21.3			0.2 t.0	1	pH Units 75048 75048	02/03/03 02/03/03 1723 hrp hrp				
6010B	Leachable, Metals Analysis (ICP) Silver, TCLP Leach	0.050 0.005			0.050 0.050	1	mg/l 75487	02/10/03 1500			tds	

Job Number: 214949

LABORATORY TEST RESULTS

Date: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Customer Sample ID: FD 3
 Date Sampled.....: 01/30/2003
 Time Sampled.....: 10:00
 Sample Matrix....: Soil

Laboratory Sample ID: 214949-3
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9045C	pH (Soil) pH, Solid Temperature at Analysis, Solid	7.5 21.5			0.2 1.0	1	pH Units pH Units	75039 75039	02/03/03 02/03/03	1702 1702	02/03/03 02/03/03	nmr nmr
6010B	Leachable, Metals Analysis (ICPAP) Silver, TCLP leach	0.050 U			0.050 0.005	1	mg/L	75392	02/06/03	1532	02/06/03 1532	lmr lmr

* In Description = Dry wt.

Job Number: 214949

LABORATORY TEST RESULTS

Date: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Customer Sample ID: FD 4
 Date Sampled.....: 01/29/2003
 Time Sampled.....: 14:15
 Sample Matrix....: Soil

Laboratory Sample ID: 214949-4
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAG	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9045C	pH (Soil) pH, Solid Temperature at Analysis, Solid	6.2 21.5		0.2 1.0	1	1	PH Units	75048	02/03/03 02/03/03	1724 1724	mp mp
6010B	Leachable, Metals Analysis (ICAP) Silver, TCLP Leach	0.008 8		0.005	1	1	mg/L	75392	02/06/03	1538	lmr

Job Number: 214949

LABORATORY TEST RESULTS

Date: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Customer Sample ID: FD 5
 Date Sampled.....: 01/29/2003
 Time Sampled.....: 13:55
 Sample Matrix....: Soil

Laboratory Sample ID: 214949-5
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9045C	pH (Soil) pH, Solid Temperature at Analysis, Solid	8.6 21.4		0.2 1.0	1		pH units pH Units	75039 75039	02/03/03 02/03/03	1703 1703	npp npp
6010B	Leachable, Metals Analysis (ICP) Silver, ICP Leach	0.01 0.005		0.050	1		mg/L	75392	02/06/03	1545	lmr

Job Number: 214949

LABORATORY TEST RESULTS

Date: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Customer Sample ID: RD 6
 Date Sampled.....: 01/29/2003
 Time Sampled.....: 15:25
 Sample Matrix....: Soil

Laboratory Sample ID: 214949-6
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	D FLAGS	MDL	RL	DIILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9045C	pH {Soil} pH, Solid Temperature at Analysis, Solid	7.7 21.9		0.2 1.0	1	pH Units	75039 75039		02/03/03 02/03/03	1706 1706 nrp nrp	
6010B	Leachable, Metals Analysis (ICAP) Silver, TCLP Leach	0.050 0.005	U	0.050	1	mg/L	75392		02/06/03 02/06/03	1551 1551 lmr lmr	

Job Number: 214949

LABORATORY TEST RESULTS

Date: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Bremer

Customer Sample ID: FD 7
 Date Sampled.....: 01/29/2003
 Time Sampled.....: 16:20
 Sample Matrix....: Soil

Laboratory Sample ID: 214949-7
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLGSS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9045C	pH (Soil) pH_Solid Temperature at Analysis, Solid	4.5 21.4		0.2 1.0	1		pH Units pH Units	75048 75048	02/03/03 02/03/03	1725 1725	nrp nrp
6010B	Leachable, Metals Analysis (ICP) Silver, TCLP Leach	0.050	U	0.005	0.050	1	mg/L	75392	02/06/03	1619	lmr

* In Description = Dry Wgt.

Job Number: 214949

L A B O R A T O R Y T E S T R E S U L T S

Date:02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Customer Sample ID: RD 8
 Date Sampled.....: 31/29/2003
 Time Sampled.....: 15:45
 Sample Matrix....: Soil

Laboratory Sample ID: 214949-8
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	O	FLAGS	MOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9045C	pH (Soil) pH, Solid Temperature at Analysis, Solid	4.3 21.4			0.2 1.0	1	pH Units pH Units	75048 75048	02/03/03 02/03/03	1726 1726	nrp nrp	
6010B	Leachable, Metals Analysis (ICAP) Silver, TCLP leach	0.050	U		0.005	0.050	1	mg/L	75392	02/06/03 02/06/03	1625 1625	lmr lmr

* In Description = Dry Hgt.

Job Number: 214949

LABORATORY TEST RESULTS

Date: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Customer Sample ID: FD 9
 Date Sampled.....: 01/29/2003
 Time Sampled.....: 15:05
 Sample Matrix....: Soil

Laboratory Sample ID: 214949-9
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9045C	pH (Soil) pH, Solid Temperature at Analysis, Solid	7.4 21.0			0.2 1.0	1		pH Units	75039 75039	02/03/03 02/03/03	1708 1708 mfp	
6010B	Leachable, Metals Analysis {ICP- Silver, TCLP Leach}	0.012	8		0.005	1		mg/L	75487	02/10/03 02/10/03	1506 tds	

* in Description = Dry Wgt..

Job Number: 214949

LABORATORY TEST RESULTS

Date: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Bremer

Customer Sample ID: FD 10
 Date Sampled.....: 01/29/2003
 Time Sampled.....: 15:00
 Sample Matrix....: Soil

Laboratory Sample ID: 214949-10
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9045C	pH (Soil) pH, Solid Temperature at Analysis, Solid	4.8 21.1			0.2 1.0	1	pH Units pH Units	75048 75048	02/03/03 02/03/03	1727 1727	mp mp	
6010B	Leachable, Metals Analysis (ICAP) Silver, TCLP Leach	0.050 0.005	U		0.050	1	mg/L	75392	02/06/03	1631	lmr	

* In Description = Dry wt.

Job Number: 214949

LABORATORY TEST RESULTS

Date: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Customer Sample ID: FD 11
 Date Sampled.....: 01/30/2003
 Time Sampled.....: 09:45
 Sample Matrix....: Soil

Laboratory Sample ID: 214949-11
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDE	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9045C	pH (Soil) pH, Solid	6.8 21.5			0.2 1.0	1		pH Units	75048 75048	02/03/03 02/03/03	1727 1727	mp mp
6010B	Leachable, Metals Analysis (ICP-A) Silver, TCLP Leach	0.050 U			0.005 0.050	1		mg/L	75392	02/06/03	1637	lrr

Job Number: 214949

LABORATORY TEST RESULTS

Date:02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Customer Sample ID: FD 12
 Date Sampled.....: 01/30/2003
 Time Sampled.....: 09:30
 Sample Matrix.....: Soil

Laboratory Sample ID: 214949-12
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH ID	DATE/TIME	TECH
9045C	pH (Soil) pH, Solid Temperature at Analysis, Solid	9.5 21.3			0.2 1.0	1	pH Units pH Units	75039 75039	02/03/03 02/03/03	1709 1709 hrp hrp	
6010B	Leachable, Metals Analysis (ICP) Silver, TCLP Leach	0.050	U		0.005 0.050	1	mg/L	75392	02/06/03	1643 lmr	

* In Description = Dry wt.

Job Number: 214949

LABORATORY TEST RESULTS

Date: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Breuer

Customer Sample ID: FD 13
 Date Sampled.....: 01/30/2003
 Time Sampled.....: 09:00
 Sample Matrix.....: Soil

Laboratory Sample ID: 214949-13
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	D	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9045C	pH (Soil) pH, Solid	8.3 21.2			0.2 1.0	1		pH Units	75039 75039	02/03/03 02/03/03	1711 1711	mp mp
6010B	Temperature at Analysis, Solid											
	Leachable, Metals Analysis (ICAP)	0.050	U		0.005	0.050	1	mg/L	75392	02/06/03	1650	lmr
	Silver, TCLP Leach											

Job Number: 214449

LABORATORY TEST RESULTS

Date: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESY

ATTN: David Brewer

Customer Sample ID: FD 14
 Date Sampled.....: 31/30/2003
 Time Sampled.....: 10:30
 Sample Matrix....: Soil

Laboratory Sample ID: 214449-14
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9045C	pH (Soil) pH, Solid Temperature at Analysis, Solid	9.4 21.2		0.2 1.0	1	pH Units pH Units	75039 75039	02/03/03 02/03/03	1712 1712	nmp nmp	
6010B	Leachable, Metals Analysis (ICAP) Silver, TCLP leach	0.077 0.005		0.350	1	mg/L	75487	02/10/03 02/10/03	1534 1534	tds	

* In Description = Dry Wgt.

Job Number: 214949

LABORATORY TEST RESULTS

Date: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Customer Sample ID: SUMP[†]
 Date Sampled.....: 01/30/2003
 Time Sampled.....: 10:20
 Sample Matrix.....: Soil

Laboratory Sample ID: 214949-15
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9045C	pH (Soil) pH, Solid Temperature at Analysis, Solid	8.2 21.7		0.2 1.0	1		pH Units	75039 75039	02/03/03 02/03/03	1714 1714	mp mp
6010B	Leachable, Metals Analysis (ICAP) Silver, TCLP Leach	0.050 0.005	U	0.050	1		mg/L	75392	02/06/03	1656	mr

* In Description = Dry Wgt.

Job Number: 214949

L A B O R A T O R Y T E S T R E S U L T S

Date:02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Customer Sample ID: SUMP2
 Date Sampled.....: 01/30/2003
 Time Sampled.....: 10:45
 Sample Matrix.....: Soil

Laboratory Sample ID: 214949-15
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9045C	pH (Soil) pH, Solid Temperature at Analysis, Solid	4.8			0.2 1.0	1	pH Units pH Units	75048 75048	02/03/03 02/03/03	1729 1729	nRP nRP	
6010B	Leachable, Metals Analysis (ICAP) Silver, TCLP Leach	0.050			0.005	0.050	1	mg/L	75392	02/06/03 02/06/03	1702 1702	lmp lmp

Job Number: 214949

LABORATORY TEST RESULTS

Date: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Customer Sample ID: CHEMICAL FEED PUMP
 Date Sampled.....: 01/29/2003
 Time Sampled.....: 14:20
 Sample Matrix....: Soil

Laboratory Sample ID: 214949-17
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	MDL	RL	DILUTION	UNITS	BATCH DT	DATE/TIME	TECH
8082	PCB Analysis									
	Aroclor 1016, Oil	500	U	500	500	1.00000	ug/Kg	75637	02/11/03 2041	pig
	Aroclor 1221, Oil	500	U	500	500	1.00000	ug/Kg	75637	02/11/03 2041	pig
	Aroclor 1232, Oil	500	U	500	500	1.00000	ug/Kg	75637	02/11/03 2041	pig
	Aroclor 1242, Oil	2000		500	500	1.00000	ug/Kg	75637	02/11/03 2041	pig
	Aroclor 1248, Oil	500	U	500	500	1.00000	ug/Kg	75637	02/11/03 2041	pig
	Aroclor 1254, Oil	500	U	500	500	1.00000	ug/Kg	75637	02/11/03 2041	pig
	Aroclor 1260, Oil	500	U	500	500	1.00000	ug/Kg	75637	02/11/03 2041	pig
8015B MDRO	TPH - Diesel Range Organics (DRO)									
	Diesel Range Organics (DRO), Oil	4200	U a	4200	4200	20.0000	mg/Kg	75633	02/11/03 1414	mgk
	Motor Oil (MRO), Oil	34000		34000	8400	20.0000	mg/Kg	75633	02/11/03 1414	mgk
Method	% Solids Determination	97.5		0.10	0.10	1	%	75064	02/04/03 1400	lmr
	% Solids, Solid	2.5		0.10	0.10	1	%	75064	02/04/03 1400	lmr
	% Moisture, Solid									

Job Number: 214949

CUSTOMER: SCS Engineers, Inc.

Customer Sample ID: BASEMENT PHOTC LAB FLOOR SPILL
Date Sampled: 6/29/2003
Time Sampled: 15:05
Sample Matrix: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	% Solids Determination % Solids, Solid % Moisture, Solid	92.0 8.0			0.10 0.10	0.10 0.10	1	% %	75064 75064	02/04/03 02/04/03	1400 1400	lmr lmr
	Semi-volatile Organics											
	Phenol, Solid*	94			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	Bis(2-chloroethyl)ether, Solid*	106			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	1,3-Dichlorobenzene, Solid*	110			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	1,4-Dichlorobenzene, Solid*	84			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	1,2-Dichlorobenzene, Solid*	98			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	Benzyl alcohol, Solid*	120			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	2-Methylphenol (o-cresol), Solid*	140			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	2,2-Oxybis (1-chloropropane), Solid*	200			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	n-Nitroso-di-n-propylamine, Solid*	110			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	Hexachloroethane, Solid*	89			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	4-Methylphenol (m/p-cresol), Solid*	130			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	2-Chlorophenol, Solid*	78			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	Nitrobenzene, Solid*	71			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	Bis(2-chloroethoxy)methane, Solid*	67			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	1,2,4-Trichlorobenzene, Solid*	56			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	Benzoic acid, Solid*	960	J	a	190	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	Isophorone, Solid*	57			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	2,4-Dimethylphenol, Solid*	250			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	Hexachlorobutadiene, Solid*	78			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	Naphthalene, Solid*	73			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	2,4-Dichlorophenol, Solid*	65			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	4-Chloroaniline, Solid*	370			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	2,4,5-Trichlorophenol, Solid*	77			370	1	0.00000	ug/Kg	75789	02/07/03	1745	glr
	2,4,5-Trichlorophenol, Solid*	76			1900	1	0.00000	ug/Kg	75789	02/07/03	1745	glr

* In Description = Dry Wgt.

Job Number: 214949

L A B O R A T O R Y T E S T R E S U L T S

Date:02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: CSA - HARDESTY

ATTN: David Brewer

Customer Sample ID: BASEMENT PHOTO LAB FLOOR SPILL
 Date Sampled.....: 01/29/2003
 Time Sampled.....: 15:05
 Sample Matrix....: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Hexachlorocyclopentadiene, Solid*		370	U			140	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
2-Methyl napthalene, Solid*		370	U			270	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
2-Nitroaniline, Solid*		1900	U			120	1900	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
2-Chloronaphthalene, Solid*		370	U			61	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
4-Chloro-3-methylphenol, Solid*		370	U			96	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
2,6-Dinitrotoluene, Solid*		370	U			89	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
2-Nitrophenol, Solid*		370	U			87	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
3-Nitroaniline, Solid*		1900	U			160	1900	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
Dimethyl phthalate, Solid*		370	U			85	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
2,4-Dinitrophenol, Solid*		1900	U			220	1900	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
Aenaphthylene, Solid*		370	U			62	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
2,4-Dinitrotoluene, Solid*		370	U			84	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
Acenaphthene, Solid*		370	U			60	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
Dibenzofuran, Solid*		370	U			62	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
4-Nitrophenol, Solid*		1900	U			420	1900	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
Fluorene, Solid*		370	U			110	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
4-Nitroaniline, Solid*		1900	U			150	1900	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
4-Bromophenyl phenyl ether, Solid*		370	U			100	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
Hexachlorobenzene, Solid*		370	U			81	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
Diethyl phthalate, Solid*		160	U			110	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
4-Chlorophenyl phenyl ether, Solid*		370	U			99	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
Pentachlorophenol, Solid*		1900	U			210	1900	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
n-Ketosodiphenylamine, Solid*		370	U			120	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
4,6-Dinitro-2-methylphenol, Solid*		1900	U			160	1900	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
Phenanthrene, Solid*		370	U			78	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
Anthracene, Solid*		370	U			83	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
Carbazole, Solid*		370	U			96	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
Oi-n-butyl phthalate, Solid*		2200	U			82	370	1.00000 ug/Kg	75789	02/07/03	1745 gtr	
Benzidine, Solid*						2200						

* In Description = Dry wgt.

Job Number: 214949

LABORATORY TEST RESULTS

Date: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Customer Sample ID: BASEMENT PHOTO LAB FLOOR SPILL
 Date Sampled.....: 01/29/2003
 Time Sampled.....: 15:05
 Sample Matrix....: Soil

Laboratory Sample ID: 214949-18
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	D	FLAGS	#OL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Fluoranthene, Solid*	370	U		110	370	1	ug/Kg	75789	02/07/03	1745	9lr
	Pyrene, Solid*	370	U		160	370	1	ug/Kg	75789	02/07/03	1745	9lr
	Butyl benzyl phthalate, Solid*	4500			130	370	1	ug/Kg	75789	02/07/03	1745	9lr
	Benz(a)anthracene, Solid*	370	U		60	370	1	ug/Kg	75789	02/07/03	1745	9lr
	Chrysene, Solid*	370	U		45	370	1	ug/Kg	75789	02/07/03	1745	9lr
	3,3-Dichlorobenzidine, Solid*	760	U		130	760	1	ug/Kg	75789	02/07/03	1745	9lr
	Bis(2-ethylhexyl)phthalate, Solid*	110000			51000	15000	0.00000	ug/Kg	75789	D1	02/12/03	0341 9lr
	Di-n-octyl phthalate, Solid*	2400			300	370	1	ug/Kg	75789	02/07/03	1745	9lr
	Benz(b)fluoranthene, Solid*	370	U		120	370	1	ug/Kg	75789	02/07/03	1745	9lr
	Benz(k)fluoranthene, Solid*	370	U		130	370	1	ug/Kg	75789	02/07/03	1745	9lr
	Benz(a)pyrene, Solid*	370	U		66	370	1	ug/Kg	75789	02/07/03	1745	9lr
	Indeno(1,2,3-cd)pyrene, Solid*	370	U		130	370	1.00000	ug/Kg	75789	02/07/03	1745	9lr
	Dibenz(a,h)anthracene, Solid*	370	U		130	370	1.00000	ug/Kg	75789	02/07/03	1745	9lr
	Benz(ghi)perylene, Solid*	370	U		170	370	1.00000	ug/Kg	75789	02/07/03	1745	9lr
6010B	Leachable, Metals Analysis (ICAP)	0.29			0.005	0.050	1	mg/L	75392	02/06/03	1708	9ar
	Silver, ICP Leach											

* In Description = Dry Wgt.

Job Number: 214949

LABORATORY TEST RESULTS

Date: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Bremer

Customer Sample ID: MAIN FLOOR SPILL
 Date Sampled.....: 01/29/2003
 Time Sampled.....: 14:45
 Sample Matrix.....: Soil

Laboratory Sample ID: 214949-19
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis										
	Aroclor 1016, Oil	16000	U		16000	16000	20.0000	ug/Kg	75637	02/11/03 2152	pig
	Aroclor 1221, Oil	15000	U		15000	16000	20.0000	ug/Kg	75637	02/11/03 2152	pig
	Aroclor 1232, Oil	16000	U		16000	16000	20.0000	ug/Kg	75637	02/11/03 2152	pig
	Aroclor 1242, Oil	16000	U		16000	16000	20.0000	ug/Kg	75637	02/11/03 2152	pig
	Aroclor 1248, Oil	16000	U		16000	16000	20.0000	ug/Kg	75637	02/11/03 2152	pig
	Aroclor 1254, Oil	85000	U		16000	16000	20.0000	ug/Kg	75637	02/11/03 2152	pig
	Aroclor 1260, Oil	16000	U		16000	16000	20.0000	ug/Kg	75637	02/11/03 2152	pig
8015B MROG	TPH - Diesel Range Organics (DRO)	9600	U		9600	9600	20.0000	mg/Kg	75633	02/11/03 2205	mgk
	Diesel Range Organics (DRO), Oil	37000			19000	19000	20.0000	mg/Kg	75633	02/11/03 2205	mgk
Method	% Solids Determination	99.8			0.10	0.10	-1	%	75458	02/10/03 1500	imb
	% Solids, Solid				0.10	0.10	-1	%	75458	02/10/03 1500	imb
	% Moisture, Solid										

* In Description = Dry Wgt.

Job Number: 214949

LABORATORY TEST RESULTS

Date:02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Customer Sample ID: INCINERATOR
 Date Sampled.....: 01/29/2003
 Time Sampled.....: 14:20
 Sample Matrix....: Soil

Laboratory Sample ID: 214949-20
 Date Received.....: 01/31/2003
 Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9045C	pH (Soil) pH, Solid Temperature at Analysis, Solid	7.1		0.2 1.0	1 1	pH units pH Units	75039 75039	02/03/03 02/03/03	1715 1715 n/p	02/03/03 02/03/03 1715 n/p	
7470A	Leachable, Mercury (CVAA) Mercury, TCLP Leach	0.0020	U	0.0020	0.0020	mg/L	75555	02/11/03	1337	90k	
6010B	leachable, Metals Analysis (ICAP) Arsenic, TCLP Leach Barium, TCLP Leach Cadmium, TCLP Leach Chromium, TCLP Leach Lead, TCLP Leach Selenium, TCLP Leach Silver, TCLP Leach	0.10 0.19 0.03 0.050 0.050 0.014 0.10 0.13	U B B U U B U U	0.010 0.010 0.002 0.050 0.050 0.0050 0.010 0.005	0.10 1.0 0.050 0.050 0.050 0.050 0.10 0.050	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	75392 75392 75392 75392 75392 75392 75392 75392	02/06/03 02/06/03 02/06/03 02/06/03 02/06/03 02/06/03 02/06/03 02/06/03	1714 1714 1714 1714 1714 1714 1714 1714	1mr 1mr 1mr 1mr 1mr 1mr 1mr 1mr	

* In Description = Dry Wgt.

LABORATORY CHRONICLE

Job Number: 214949

Date: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Lab ID: 214949-1	Client ID: FD 1	Date Recvd: 01/31/2003	Sample Date: 01/29/2003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S) DATE/TIME ANALYZED DILUTION
3010A	Acid Dig. Leachates (ICAP)	1	75291	75073 02/06/2003 1600
6010B	Leachable, Metals Analysis (ICAP)	1	75392	75291 -75073 02/06/2003 1507
1311	TCLP Extraction	1	75073	02/04/2003 1250
9045C	pH (Soil)	1	75048	75048 02/03/2003 1721
Lab ID: 214949-2	Client ID: FD 2	Date Recvd: 01/31/2003	Sample Date: 01/30/2003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S) DATE/TIME ANALYZED DILUTION
3010A	Acid Dig. Leachates (ICAP)	1	75358	75267 02/07/2003 1600
6010B	Leachable, Metals Analysis (ICAP)	1	75487	75358 -75267 02/10/2003 1500
1311	TCLP Extraction	1	75267	02/06/2003 1300
9045C	pH (Soil)	1	75048	75048 02/03/2003 1723
Lab ID: 214949-3	Client ID: FD 3	Date Recvd: 01/31/2003	Sample Date: 01/30/2003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S) DATE/TIME ANALYZED DILUTION
3010A	Acid Dig. Leachates (ICAP)	1	75291	75073 02/06/2003 1600
6010B	Leachable, Metals Analysis (ICAP)	1	75392	75291 -75073 02/06/2003 1532
1311	TCLP Extraction	1	75073	02/04/2003 1250
9045C	pH (Soil)	1	75039	75039 02/03/2003 1702
Lab ID: 214949-4	Client ID: FD 4	Date Recvd: 01/31/2003	Sample Date: 01/29/2003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S) DATE/TIME ANALYZED DILUTION
3010A	Acid Dig. Leachates (ICAP)	1	75291	75073 02/06/2003 1600
6010B	Leachable, Metals Analysis (ICAP)	1	75392	75291 -75073 02/06/2003 1538
1311	TCLP Extraction	1	75073	02/04/2003 1250
9045C	pH (Soil)	1	75048	75048 02/03/2003 1724
Lab ID: 214949-5	Client ID: FD 5	Date Recvd: 01/31/2003	Sample Date: 01/29/2003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S) DATE/TIME ANALYZED DILUTION
3010A	Acid Dig. Leachates (ICAP)	1	75291	75073 02/06/2003 1600
6010B	Leachable, Metals Analysis (ICAP)	1	75392	75291 -75073 02/06/2003 1545
1311	TCLP Extraction	1	75073	02/04/2003 1250
9045C	pH (Soil)	1	75039	75039 02/03/2003 1703
Lab ID: 214949-6	Client ID: FD 6	Date Recvd: 01/31/2003	Sample Date: 01/29/2003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S) DATE/TIME ANALYZED DILUTION
3010A	Acid Dig. Leachates (ICAP)	1	75291	75073 02/06/2003 1600
6010B	Leachable, Metals Analysis (ICAP)	1	75392	75291 -75073 02/06/2003 1551
1311	TCLP Extraction	1	75073	02/04/2003 1250
9045C	pH (Soil)	1	75039	75039 02/03/2003 1706
Lab ID: 214949-7	Client ID: FD 7	Date Recvd: 01/31/2003	Sample Date: 01/29/2003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S) DATE/TIME ANALYZED DILUTION
3010A	Acid Dig. Leachates (ICAP)	1	75291	75073 02/06/2003 1600
6010B	Leachable, Metals Analysis (ICAP)	1	75392	75291 -75073 02/06/2003 1619
1311	TCLP Extraction	1	75073	02/04/2003 1250
9045C	pH (Soil)	1	75048	75048 02/03/2003 1725
Lab ID: 214949-8	Client ID: FD 8	Date Recvd: 01/31/2003	Sample Date: 01/29/2003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S) DATE/TIME ANALYZED DILUTION
3010A	Acid Dig. Leachates (ICAP)	1	75291	75073 02/06/2003 1600
6010B	Leachable, Metals Analysis (ICAP)	1	75392	75291 -75073 02/06/2003 1625
1311	TCLP Extraction	1	75073	02/04/2003 1250
9045C	pH (Soil)	1	75048	75048 02/03/2003 1726
Lab ID: 214949-9	Client ID: FD 9	Date Recvd: 01/31/2003	Sample Date: 01/29/2003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S) DATE/TIME ANALYZED DILUTION
3010A	Acid Dig. Leachates (ICAP)	1	75358	75267 02/07/2003 1600

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L A B O R A T O R Y C H R O N I C L E

Job Number: 214949

Date: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Lab ID: 214949-9	Client ID: FD 9	Date Recvd: 01/31/2003	Sample Date: 01/29/2003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S) DATE/TIME ANALYZED DILUTION
60108	Leachable, Metals Analysis (ICAP)	1	75487	75358 -75267 02/10/2003 1506
1311	TCLP Extraction	1	75267	02/06/2003 1300
9045C	pH (Soil)	1	75039	02/03/2003 1708
Lab ID: 214949-10	Client ID: FD 10	Date Recvd: 01/31/2003	Sample Date: 01/29/2003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S) DATE/TIME ANALYZED DILUTION
3010A	Acid Dig. Leachates (ICAP)	1	75291	75073 02/06/2003 1600
60108	Leachable, Metals Analysis (ICAP)	1	75392	75291 -75073 02/06/2003 1631
1311	TCLP Extraction	1	75073	02/04/2003 1250
9045C	pH (Soil)	1	75048	02/03/2003 1727
Lab ID: 214949-11	Client ID: FD 11	Date Recvd: 01/31/2003	Sample Date: 01/30/2003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S) DATE/TIME ANALYZED DILUTION
3010A	Acid Dig. Leachates (ICAP)	1	75291	75073 02/06/2003 1600
60108	Leachable, Metals Analysis (ICAP)	1	75392	75291 -75073 02/06/2003 1637
1311	TCLP Extraction	1	75073	02/04/2003 1250
9045C	pH (Soil)	1	75048	02/03/2003 1727
Lab ID: 214949-12	Client ID: FD 12	Date Recvd: 01/31/2003	Sample Date: 01/30/2003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S) DATE/TIME ANALYZED DILUTION
3010A	Acid Dig. Leachates (ICAP)	1	75291	75073 02/06/2003 1600
60108	Leachable, Metals Analysis (ICAP)	1	75392	75291 -75073 02/06/2003 1643
1311	TCLP Extraction	1	75073	02/04/2003 1250
9045C	pH (Soil)	1	75039	02/03/2003 1709
Lab ID: 214949-13	Client ID: FD 13	Date Recvd: 01/31/2003	Sample Date: 01/30/2003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S) DATE/TIME ANALYZED DILUTION
3010A	Acid Dig. Leachates (ICAP)	1	75291	75073 02/06/2003 1600
60108	Leachable, Metals Analysis (ICAP)	1	75392	75291 -75073 02/06/2003 1650
1311	TCLP Extraction	1	75073	02/04/2003 1250
9045C	pH (Soil)	1	75039	02/03/2003 1711
Lab ID: 214949-14	Client ID: FD 14	Date Recvd: 01/31/2003	Sample Date: 01/30/2003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S) DATE/TIME ANALYZED DILUTION
3010A	Acid Dig. Leachates (ICAP)	1	75358	75267 02/07/2003 1600
60108	Leachable, Metals Analysis (ICAP)	1	75487	75358 -75267 02/10/2003 1534
1311	TCLP Extraction	1	75267	02/06/2003 1300
9045C	pH (Soil)	1	75039	02/03/2003 1712
Lab ID: 214949-15	Client ID: SUMP1	Date Recvd: 01/31/2003	Sample Date: 01/30/2003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S) DATE/TIME ANALYZED DILUTION
3010A	Acid Dig. Leachates (ICAP)	1	75291	75073 02/06/2003 1600
60108	Leachable, Metals Analysis (ICAP)	1	75392	75291 -75073 02/06/2003 1656
1311	TCLP Extraction	1	75073	02/04/2003 1250
9045C	pH (Soil)	1	75039	02/03/2003 1714
Lab ID: 214949-16	Client ID: SUMP2	Date Recvd: 01/31/2003	Sample Date: 01/30/2003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S) DATE/TIME ANALYZED DILUTION
3010A	Acid Dig. Leachates (ICAP)	1	75291	75073 02/06/2003 1600
60108	Leachable, Metals Analysis (ICAP)	1	75392	75291 -75073 02/06/2003 1702
1311	TCLP Extraction	1	75073	02/04/2003 1250
9045C	pH (Soil)	1	75048	02/03/2003 1729
Lab ID: 214949-17	Client ID: CHEMICAL FEED PUMP	Date Recvd: 01/31/2003	Sample Date: 01/29/2003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S) DATE/TIME ANALYZED DILUTION
Method	% Solids Determination	1	75064	02/04/2003 1400

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LABORATORY CHRONICLE

Job Number: 214949

Date: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Lab ID: 214949-17 Client ID: CHEMICAL FEED PUMP		Date Recvd: 01/31/2003 Sample Date: 01/29/2003			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED
5580A	Extraction Waste Dilution (Diesel)	1	75387		02/10/2003 0920
5580A	Extraction Waste Dilution (PCBs)	1	75386		02/10/2003 0920
8082	PCB Analysis	1	75637	75386	02/11/2003 2041
8015B MDRO	TPH - Diesel Range Organics (DRO)	1	75633	75387	02/11/2003 1414
					20.0000
Lab ID: 214949-18 Client ID: BASEMENT PHOTO LAB FLOOR SPILL		Date Recvd: 01/31/2003 Sample Date: 01/29/2003			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED
Method	% Solids Determination	1	75064		02/04/2003 1400
3010A	Acid Dig. Leachates (ICAP)	1	75291	75073	02/06/2003 1600
3550B	Extraction Ultrasonic (SVOC)	1	75296		02/06/2003 1830
6010B	Leachable, Metals Analysis (ICAP)	1	75392	75291 -75073	02/06/2003 1708
8270C	Semivolatile Organics	1	75789	75296	02/07/2003 1745
8270C	Semivolatile Organics	1	75789	75296	02/12/2003 0341
1311	TCLP Extraction	1	75073		400.000
					1250
Lab ID: 214949-19 Client ID: MAIN FLOOR SPILL		Date Recvd: 01/31/2003 Sample Date: 01/29/2003			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED
Method	% Solids Determination	1	75458		02/10/2003 1500
3580A	Extraction Waste Dilution (Diesel)	1	75387		02/10/2003 0920
3580A	Extraction Waste Dilution (PCBs)	1	75386		02/10/2003 0920
8082	PCB Analysis	1	75637	75386	02/11/2003 2152
8015B MDRO	TPH - Diesel Range Organics (DRO)	1	75633	75387	02/11/2003 2205
					20.0000
Lab ID: 214949-20 Client ID: INCINERATOR		Date Recvd: 01/31/2003 Sample Date: 01/29/2003			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED
3010A	Acid Dig. Leachates (ICAP)	1	75291	75073	02/06/2003 1600
7470A	Leachable, Mercury (CVAA)	1	75555	75551 -75073	02/11/2003 1337
6010B	Leachable, Metals Analysis (ICAP)	1	75392	75291 -75073	02/06/2003 1714
7470	SW846 Dig. Leachates (Hg)	1	75551		02/10/2003 1125
1311	TCLP Extraction	1	75073		02/04/2003 1250
9045C	pH (Soil)	1	75039	75039	02/03/2003 1715

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S U R R O G A T E R E C O V E R I E S R E P O R T

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Method.....: TPH - Diesel Range Organics (DRO)
Method Code...: 8015D

Test Matrix...: Oil
Batch(s).....: 75633

Prep Batch..: 75387

Lab ID	DT	Sample ID	Date	2FLUBP	OTERPH
LCD			02/11/2003	104	103
LCS			02/11/2003	103	103
MB			02/11/2003	90	90
214949- 17		CHEMICAL FEED PUMP	02/11/2003	0 D 0 D	
214949- 19		MAIN FLOOR SPILL	02/11/2003	0 D 0 D	

Test	Test Description	Limits
2FLUBP	2-Fluorobiphenyl (surr)	33 - 115
OTERPH	o-Terphenyl (surr)	34 - 168

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S U R R O G A T E R E C O V E R I E S R E P O R T

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Method.....: PCB Analysis
Method Code...: 8082

Test Matrix....: Oil
Batch(s).....: 75637

Prep Batch..: 75386

Lab ID	DT	Sample ID	Date	DCB	TCX
LCS			02/11/2003	91	109
MB			02/11/2003	81	96
214949- 17		CHEMICAL FEED PUMP	02/11/2003	89	109
214949- 19		MAIN FLOOR SPILL	02/11/2003	0	0

Test	Test Description	Limits
DCB	Decachlorobiphenyl (surr)	24 - 154
TCX	Tetrachloro-m-xylene (surr)	25 - 138

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S U R R O G A T E R E C O V E R I E S R E P O R T

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Method.....: Semivolatile Organics
Method Code...: 8270

Test Matrix...: Solid
Batch(s).....: 75789

Prep Batch..: 75296

Lab ID	DT	Sample ID	Date	246TBP	2FLUBP	2FLUPH	NITRO5	PHEND5	TERD14
LCS			02/07/2003	83	69	60	60	62	66
MB			02/07/2003	72	70	61	64	60	61
214949- 18		BASEMENT PHOTO LAB FLOOR SPILL	02/07/2003	58	51	45	47	53	49
214949- 18	D1	BASEMENT PHOTO LAB FLOOR SPILL	02/12/2003	0	0	0	0	0	0

Test	Test Description	Limits
246TBP	2,4,6-Tribromophenol (surr)	41 - 126
2FLUBP	2-Fluorobiphenyl (surr)	38 - 121
2FLUPH	2-Fluorophenol (surr)	37 - 113
NITRO5	Nitrobenzene-d5 (surr)	31 - 120
PHEND5	Phenol-d5 (surr)	44 - 113
TERD14	Terphenyl-d14 (surr)	43 - 121

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: 8082
Method Description.: PCB AnalysisEquipment Code....: INST3738
Batch.....: 75637

Analyst...: pig

LCS	Laboratory Control Sample	E03APLPCBA		75386 -002		02/11/2003	2006		
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Aroclor 1016, Oil	ug/Kg	4455.700		5001.000	500.000	U 89	%	66-104	
Aroclor 1260, Oil	ug/Kg	4627.300		5010.000	500.000	U 92	%	68-108	

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: 8082

Method Description.: PCB Analysis

Equipment Code....: INST3738

Batch.....: 75637

Analyst...: pjg

MB	Method Blank		75386 -001		02/11/2003	1930
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc. * Limits F
Aroclor 1016, Oil	ug/Kg	500.000	U			
Aroclor 1221, Oil	ug/Kg	500.000	U			
Aroclor 1232, Oil	ug/Kg	500.000	U			
Aroclor 1242, Oil	ug/Kg	500.000	U			
Aroclor 1248, Oil	ug/Kg	500.000	U			
Aroclor 1254, Oil	ug/Kg	500.000	U			
Aroclor 1260, Oil	ug/Kg	500.000	U			

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: 8015B MDRO

Method Description.: TPH - Diesel Range Organics (DRO)

Equipment Code....: INST10

Batch.....: 75633

Analyst...: mgk

LCD	Laboratory Control Sample Duplicate	002KWL0IEA	75387 -003		02/11/2003	1335
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc. * Limits F
Diesel Range Organics (DRO), oil	mg/Kg	4107.900	4040.570	4000.000	250.000 U 103 Z	% 72-120 R 20

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: 8015B MDRO

Equipment Code....: INST10

Analyst...: mgk

Method Description.: TPH - Diesel Range Organics (DRO)

Batch.....: 75633

LCS	Laboratory Control Sample	002KWLDEA	75387 -002			02/11/2003	1256
	Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc. * Limits F

Diesel Range Organics (DRO), oil mg/Kg 4040.570 4000.000 250.000 U 101 % 72-120

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method: 8015B MRRO

Method Description.: TPH - Diesel Range Organics (DRO)

Equipment Code.....: INST10

Equipment code..... INSTR
Batch.....: 75633

Analyst...: mgk

MB	Method Blank			75387 -001			02/11/2003 1217
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits
Diesel Range Organics (DRO), Oil	mg/Kg	250,000	U				
Motor Oil (MRO), Oil	mg/Kg	500,000	U				

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: 8270C
Method Description.: Semivolatile OrganicsEquipment Code....: GCL4
Batch.....: 75789

Analyst...: gsr

LCS	Laboratory Control Sample	003AWLBNA	75296 -002			02/07/2003	1714
	Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.
Phenol, Solid	ug/Kg	2245.634		3333.000	330.000	U 67	% 45-109
Bis(2-chloroethyl)ether, Solid	ug/Kg	2294.017		3333.000	330.000	U 69	% 42-101
1,3-Dichlorobenzene, Solid	ug/Kg	2158.322		3333.000	330.000	U 65	% 48-100
1,4-Dichlorobenzene, Solid	ug/Kg	2246.078		3333.000	330.000	U 67	% 50-100
1,2-Dichlorobenzene, Solid	ug/Kg	2280.147		3333.000	330.000	U 68	% 49-104
Benzyl alcohol, Solid	ug/Kg	2436.562		3333.000	330.000	U 73	% 14-150
2-Methylphenol (o-cresol), Solid	ug/Kg	2281.887		3333.000	330.000	U 68	% 50-102
2,7-oxybis (1-chloropropane), Solid	ug/Kg	2275.931		3333.000	330.000	U 68	% 48-100
n-Nitroso-di-n-propylamine, Solid	ug/Kg	2256.894		3333.000	330.000	U 68	% 49-138
Hexachloroethane, Solid	ug/Kg	2252.237		3333.000	330.000	U 68	% 46-100
4-Methylphenol (m/p-cresol), Solid	ug/Kg	2538.595		3333.000	330.000	U 76	% 49-109
2-Chlorophenol, Solid	ug/Kg	2354.306		3333.000	330.000	U 71	% 52-103
Nitrobenzene, Solid	ug/Kg	2272.271		3333.000	330.000	U 68	% 50-100
Bis(2-chloroethoxy)methane, Solid	ug/Kg	2389.596		3333.000	330.000	U 72	% 55-116
1,2,4-Trichlorobenzene, Solid	ug/Kg	2304.887		3333.000	330.000	U 69	% 53-107
Benzoic acid, Solid	ug/Kg	2498.838		3333.000	1700.000	U 75	% 40-143
Isophorone, Solid	ug/Kg	2178.082		3333.000	330.000	U 65	% 52-116
2,4-Dimethylphenol, Solid	ug/Kg	2434.886		3333.000	330.000	U 73	% 57-100
Hexachlorobutadiene, Solid	ug/Kg	2323.570		3333.000	330.000	U 70	% 52-118
Naphthalene, Solid	ug/Kg	2387.449		3333.000	330.000	U 72	% 57-100
2,4-Dichlorophenol, Solid	ug/Kg	2377.456		3333.000	330.000	U 71	% 58-103
4-Chloroaniline, Solid	ug/Kg	2017.163		3333.000	330.000	U 61	% 15-114
2,4,6-Trichlorophenol, Solid	ug/Kg	2497.352		3333.000	330.000	U 75	% 57-105
2,4,5-Trichlorophenol, Solid	ug/Kg	2637.604		3333.000	1700.000	U 79	% 62-118
Hexachlorocyclopentadiene, Solid	ug/Kg	1646.670		3333.000	330.000	U 49	% 32-100
2-Methylnaphthalene, Solid	ug/Kg	2409.496		3333.000	330.000	U 72	% 53-100
2-Nitroaniline, Solid	ug/Kg	2822.305		3333.000	1700.000	U 85	% 55-106
2-Chloronaphthalene, Solid	ug/Kg	2458.719		3333.000	330.000	U 74	% 59-114
4-Chloro-3-methylphenol, Solid	ug/Kg	2713.720		3333.000	330.000	U 81	% 56-110
2,6-Dinitrotoluene, Solid	ug/Kg	2985.950		3333.000	330.000	U 90	% 62-111
2-Nitrophenol, Solid	ug/Kg	2183.295		3333.000	330.000	U 65	% 53-102
3-Nitroaniline, Solid	ug/Kg	2532.061		3333.000	1700.000	U 76	% 28-100
Dimethyl phthalate, Solid	ug/Kg	2793.445		3333.000	330.000	U 84	% 63-105
2,4-Dinitrophenol, Solid	ug/Kg	2533.608		3333.000	1700.000	U 76	% 44-139
Acenaphthylene, Solid	ug/Kg	2627.690		3333.000	330.000	U 79	% 60-102
2,4-Dinitrotoluene, Solid	ug/Kg	3134.455		3333.000	330.000	U 94	% 61-113
Acenaphthene, Solid	ug/Kg	2641.404		3333.000	330.000	U 79	% 61-100
Dibenzofuran, Solid	ug/Kg	2628.640		3333.000	330.000	U 79	% 62-108
4-Nitrophenol, Solid	ug/Kg	3308.974		3333.000	1700.000	U 99	% 45-129
Fluorene, Solid	ug/Kg	2922.311		3333.000	330.000	U 88	% 64-103
4-Nitroaniline, Solid	ug/Kg	3102.009		3333.000	1700.000	U 93	% 32-111
4-Bromophenyl phenyl ether, Solid	ug/Kg	2564.564		3333.000	330.000	U 77	% 62-108
Hexachlorobenzene, Solid	ug/Kg	2668.187		3333.000	330.000	U 80	% 62-105
Diethyl phthalate, Solid	ug/Kg	3142.679		3333.000	330.000	U 94	% 62-110
4-Chlorophenyl phenyl ether, Solid	ug/Kg	2917.831		3333.000	330.000	U 88	% 62-106
Pentachlorophenol, Solid	ug/Kg	3215.345		3333.000	1700.000	U 96	% 43-122
n-Nitrosodiphenylamine, Solid	ug/Kg	2540.011		3333.000	330.000	U 76	% 63-108
4,6-Dinitro-2-methylphenol, Solid	ug/Kg	2896.964		3333.000	1700.000	U 87	% 67-130
Phenanthrene, Solid	ug/Kg	2870.705		3333.000	330.000	U 86	% 64-108
Anthracene, Solid	ug/Kg	2978.690		3333.000	330.000	U 89	% 63-107

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time			
LCS	Laboratory Control Sample	003AWLBNA	75296 -002		02/07/2003	1714			
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Carbazole, Solid	ug/Kg	3070.159		3333.000	330.000	U 92	%	62-104	
Di-n-butyl phthalate, Solid	ug/Kg	3443.599		3333.000	330.000	U 103	%	58-117	
Benzidine, Solid	ug/Kg	600.357 J		3333.000	3300.000	U 18	%	10-100	
Fluoranthene, Solid	ug/Kg	3658.330		3333.000	330.000	U 110	%	56-116	
Pyrene, Solid	ug/Kg	2168.618		3333.000	330.000	U 65	%	51-123	
Butyl benzyl phthalate, Solid	ug/Kg	2770.739		3333.000	330.000	U 83	%	56-113	
Benzo(a)anthracene, Solid	ug/Kg	2750.339		3333.000	330.000	U 83	%	62-109	
Chrysene, Solid	ug/Kg	2938.034		3333.000	330.000	U 88	%	60-106	
3,3-Dichlorobenzidine, Solid	ug/Kg	2691.543		3333.000	670.000	U 81	%	22-106	
Bis(2-ethylhexyl)phthalate, Solid	ug/Kg	2989.630		3333.000	198.656 J 90		%	56-117	
Di-n-octyl phthalate, Solid	ug/Kg	2576.458		3333.000	330.000	U 77	%	45-130	
Benzo(b)fluoranthene, Solid	ug/Kg	2700.770		3333.000	330.000	U 81	%	52-124	
Benzo(k)fluoranthene, Solid	ug/Kg	3016.300		3333.000	330.000	U 90	%	44-130	
Benzo(a)pyrene, Solid	ug/Kg	3083.822		3333.000	330.000	U 93	%	53-121	
Indeno(1,2,3-cd)pyrene, Solid	ug/Kg	3276.267		3333.000	330.000	U 98	%	49-136	
Dibenz(a,h)anthracene, Solid	ug/Kg	3209.298		3333.000	330.000	U 96	%	55-131	
Benzo(ghi)perylene, Solid	ug/Kg	3148.775		3333.000	330.000	U 94	%	48-139	

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: 8270C

Equipment Code....: GCL4

Analyst...: glr

Method Description.: Semivolatile Organics

Batch.....: 75789

MB	Method Blank	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits	F
	Parameter/Test Description								
	Phenol, Solid	ug/Kg	330.000	U					
	Bis(2-chloroethyl)ether, Solid	ug/Kg	330.000	U					
	1,3-Dichlorobenzene, Solid	ug/Kg	330.000	U					
	1,4-Dichlorobenzene, Solid	ug/Kg	330.000	U					
	1,2-Dichlorobenzene, Solid	ug/Kg	330.000	U					
	Benzyl alcohol, Solid	ug/Kg	330.000	U					
	2-Methylphenol (o-cresol), Solid	ug/Kg	330.000	U					
	2,2'-oxybis (1-chloropropane), Solid	ug/Kg	330.000	U					
	n-Nitroso-di-n-propylamine, Solid	ug/Kg	330.000	U					
	Hexachloroethane, Solid	ug/Kg	330.000	U					
	4-Methylphenol (m/p-cresol), Solid	ug/Kg	330.000	U					
	2-Chlorophenol, Solid	ug/Kg	330.000	U					
	Nitrobenzene, Solid	ug/Kg	330.000	U					
	Bis(2-chloroethoxy)methane, Solid	ug/Kg	330.000	U					
	1,2,4-Trichlorobenzene, Solid	ug/Kg	330.000	U					
	Benzoic acid, Solid	ug/Kg	1700.000	U					
	Isophorone, Solid	ug/Kg	330.000	U					
	2,4-Dimethylphenol, Solid	ug/Kg	330.000	U					
	Hexachlorobutadiene, Solid	ug/Kg	330.000	U					
	Naphthalene, Solid	ug/Kg	330.000	U					
	7,4-Dichlorophenol, Solid	ug/Kg	330.000	U					
	4-Chloroaniline, Solid	ug/Kg	330.000	U					
	2,4,6-Trichlorophenol, Solid	ug/Kg	330.000	U					
	2,4,5-Trichlorophenol, Solid	ug/Kg	1700.000	U					
	Hexachlorocyclopentadiene, Solid	ug/Kg	330.000	U					
	2-Methylnaphthalene, Solid	ug/Kg	330.000	U					
	2-Nitroaniline, Solid	ug/Kg	1700.000	U					
	2-Chloronaphthalene, Solid	ug/Kg	330.000	U					
	4-Chloro-3-methylphenol, Solid	ug/Kg	330.000	U					
	2,6-Dinitrotoluene, Solid	ug/Kg	330.000	U					
	2-Nitrophenol, Solid	ug/Kg	330.000	U					
	3-Nitroaniline, Solid	ug/Kg	1700.000	U					
	Dimethyl phthalate, Solid	ug/Kg	330.000	U					
	2,4-Dinitrophenol, Solid	ug/Kg	1700.000	U					
	Acenaphthylene, Solid	ug/Kg	330.000	U					
	2,4-Dinitrotoluene, Solid	ug/Kg	330.000	U					
	Acenaphthene, Solid	ug/Kg	330.000	U					
	Dibenzofuran, Solid	ug/Kg	330.000	U					
	4-Nitrophenol, Solid	ug/Kg	1700.000	U					
	Fluorene, Solid	ug/Kg	330.000	U					
	4-Nitroaniline, Solid	ug/Kg	1700.000	U					
	4-Bromophenyl phenyl ether, Solid	ug/Kg	330.000	U					
	Hexachlorobenzene, Solid	ug/Kg	330.000	U					
	Diethyl phthalate, Solid	ug/Kg	330.000	U					
	4-Chlorophenyl phenyl ether, Solid	ug/Kg	330.000	U					
	Pentachlorophenol, Solid	ug/Kg	1700.000	U					
	n-Nitrosodiphenylamine, Solid	ug/Kg	330.000	U					
	4,6-Dinitro-2-methylphenol, Solid	ug/Kg	1700.000	U					
	Phenanthrene, Solid	ug/Kg	330.000	U					
	Anthracene, Solid	ug/Kg	330.000	U					

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

MB	Method Blank		75296 -001		02/07/2003	1643
----	--------------	--	------------	--	------------	------

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits	F
Carbazole, Solid	ug/Kg	330.000	U					
Di-n-butyl phthalate, Solid	ug/Kg	330.000	U					
Benzidine, Solid	ug/Kg	3300.000	U					
Fluoranthene, Solid	ug/Kg	330.000	U					
Pyrene, Solid	ug/Kg	330.000	U					
Butyl benzyl phthalate, Solid	ug/Kg	330.000	U					
Benzo(a)anthracene, Solid	ug/Kg	330.000	U					
Chrysene, Solid	ug/Kg	330.000	U					
3,3-Dichlorobenzidine, Solid	ug/Kg	670.000	U					
Bis(2-ethylhexyl)phthalate, Solid	ug/Kg	198.656	J					
Di-n-octyl phthalate, Solid	ug/Kg	330.000	U					
Benzo(b)fluoranthene, Solid	ug/Kg	330.000	U					
Benzo(k)fluoranthene, Solid	ug/Kg	330.000	U					
Benzo(a)pyrene, Solid	ug/Kg	330.000	U					
Indeno(1,2,3-cd)pyrene, Solid	ug/Kg	330.000	U					
Dibenz(a,h)anthracene, Solid	ug/Kg	330.000	U					
Benzo(ghi)perylene, Solid	ug/Kg	330.000	U					

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

Test Method.....: 6010B

Method Description.: Leachable, Metals Analysis (ICAP)

Equipment Code....: ICP3

Batch.....: 75392

Analyst...: lmr

EB1	Extraction Blank 1		75291	75291 -001			02/06/2003	1455
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits F
Arsenic, TCLP Leach	mg/L	0.01000	U					
Barium, TCLP Leach	mg/L	0.53592	B					
Cadmium, TCLP Leach	mg/L	0.00200	U					
Chromium, TCLP Leach	mg/L	0.01000	U					
Lead, TCLP Leach	mg/L	0.00500	U					
Selenium, TCLP Leach	mg/L	0.01000	U					
Silver, TCLP Leach	mg/L	0.00500	U					

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

Test Method.....: 6010B

Equipment Code....: ICP3

Analyst...: lmr

Method Description.: Leachable, Metals Analysis (ICAP)

Batch.....: 75392

LCS	Laboratory Control Sample	M03ASPK002		75291 -002		02/06/2003	1501	F
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits
Arsenic, TCLP Leach	mg/L	0.09759 B		0.10000	0.01000 U 98		%	80-120
Barium, TCLP Leach	mg/L	2.00603		2.00000	0.53592 B 100		%	80-120
Cadmium, TCLP Leach	mg/L	0.04816 B		0.05000	0.00200 U 96		%	80-120
Chromium, TCLP Leach	mg/L	0.19281		0.20000	0.01000 U 96		%	80-120
Lead, TCLP Leach	mg/L	0.10126		0.10000	0.00500 U 101		%	80-120
Selenium, TCLP Leach	mg/L	0.09599 B		0.10000	0.01000 U 96		%	80-120
Silver, TCLP Leach	mg/L	0.04736 B		0.05000	0.00500 U 95		%	80-120

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

Test Method.....: 6010B

Equipment Code....: ICP3

Analyst...: lmr

Method Description: Leachable, Metals Analysis (ICAP)

Batch.....: 75392

MD	Method Duplicate			214949-1			02/06/2003	1514
	Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits F

Silver, TCLP Leach mg/L 0.00500 U 0.00500 U 0.00033 A 0.05000

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

Test Method.....: 6010B

Equipment Code.....: ICP3

Analyst...: [mr]

Method Description: Leachable Metals Analysis (ICAP)

Equipment used..... 101-3
Batch..... 75392

MS	Matrix Spike	M02HSPK002	214949-1		02/06/2003 1520
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC Calc. * Limits F
Silver, TCP Leach	ng/L	0.61292		1.00000	0.00500 0.61 % 50-150

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: 6010B

Equipment Code....: ICP3

Analyst...: lmr

Method Description.: Leachable, Metals Analysis (ICAP)

Batch.....: 75392

SD	Serial Dilution		214949-1		02/06/2003	1526
	Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC Calc. * Limits F

silver, ICLP Leach mg/L 0.00500 U 0.00500 U

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

Test Method.....: 6010B

Method Description.: Leachable, Metals Analysis (ICAP)

Equipment Code....: ICP3

Batch.....: 75487

Analyst...: tds

EB1	Extraction Blank 1	75358	75358 -001		02/10/2003	1447
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc. * Limits F

Silver, TCLP Leach mg/L 0.00500 U

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

Test Method.....: 6010B

Equipment Code....: ICP3

Analyst...: tds

Method Description.: Leachable, Metals Analysis (ICAP)

Batch.....: 75487

LCS	Laboratory Control Sample	M03ASPK002	75358 -002		02/10/2003 1454
Silver, TCLP Leach	mg/L	0.04729 B	0.05000	0.00500 U 95	% 80-120

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

Test Method.....: 6010B

Equipment Code....: ICP3

Analyst...: tds

Method Description.: Leachable, Metals Analysis (ICAP)

Batch.....: 75487

MD	Method Duplicate			214949-14			02/10/2003	1540
	Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits F

Silver, TCLP Leach mg/L 0.07661 0.07720 0.00059 A 0.05000

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

Test Method.....: 6010B

Method Description.: Leachable, Metals Analysis (ICAP)

Equipment Code....: ICP3

Batch.....: 75487

Analyst...: tds

MS	Matrix Spike	M02HSPK002	214949-14		02/10/2003	1546
	Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC Calc. * Limits F
Silver, TCLP Leach		mg/L	0.98123		1.00000	0.07720 90 % 50-150

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

Test Method.....: 6010B

Equipment Code....: ICP3

Analyst...: tds

Method Description.: Leachable, Metals Analysis (ICP)

Batch.....: 75487

SD	Serial Dilution		214949-14		02/10/2003	1552
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc. * Limits F

Silver, TCIP leach mg/l 0.01474 B 0.07720 4.5 D 10.0

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Test Method.....: Method
 Method Description.: % Solids Determination
 Parameter.....: % Solids

Batch.....: 75064
 Equipment Code....:

Analyst...: lmr
 Test Code.: %SOLID

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc. F *	Limits	Date	Time
MB	75064-001		%	0.1000 U						02/04/2003	1400

Test Method.....: Method
 Method Description.: % Solids Determination
 Parameter.....: % Solids

Batch.....: 75458
 Equipment Code....:

Analyst...: imb
 Test Code.: %SOLID

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc. F *	Limits	Date	Time
MB	75458-001		%	0.1000 U						02/10/2003	1500

Test Method.....: 9045C
 Method Description.: pH (Soil)
 Parameter.....: Temperature at Analysis

Batch.....: 75039
 Equipment Code....:

Analyst...: nnp
 Test Code.: TEMPA

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc. F *	Limits	Date	Time
MDPH	214949-5		pH Units	21.20000			21.40000			02/03/2003	1705

Test Method.....: 9045C
 Method Description.: pH (Soil)
 Parameter.....: Temperature at Analysis

Batch.....: 75048
 Equipment Code....:

Analyst...: nnp
 Test Code.: TEMPA

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc. F *	Limits	Date	Time
MDPH	214949-1		pH Units	21.40000			21.60000			02/03/2003	1722

Test Method.....: 9045C
 Method Description.: pH (Soil)
 Parameter.....: pH

Batch.....: 75039
 Equipment Code....:

Analyst...: nnp
 Test Code.: PH

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc. F *	Limits	Date	Time
LCSP	75039 -002	I03APH7B	pH Units	6.95000		7.00000		0.05000	A 0.20000	02/03/2003	1659
LCDP	75039 -003	I03APH7B	pH Units	6.95000		7.00000		0.05000	A 0.20000	02/03/2003	1700
MDPH	214949-5		pH Units	8.66000			8.58000	0.08000	A 0.20000	02/03/2003	1705

Test Method.....: 9045C
 Method Description.: pH (Soil)
 Parameter.....: pH

Batch.....: 75048
 Equipment Code....:

Analyst...: nnp
 Test Code.: PH

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc. F *	Limits	Date	Time
LCSP	75048 -002	I03APH7B	pH Units	6.96000		7.00000		0.04000	A 0.20000	02/03/2003	1718
LCDP	75048 -003	I03APH7B	pH Units	6.96000		7.00000		0.04000	A 0.20000	02/03/2003	1719
MDPH	214949-1		pH Units	6.49000			6.47000	0.02000	A 0.20000	02/03/2003	1722

QUALITY CONTROL RESULTS

Job Number.: 214949

Report Date.: 02/14/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY

ATTN: David Brewer

Test Method.....: 7470A
 Method Description.: Leachable, Mercury (CVAA)
 Parameter.....: Mercury

Batch.....: 75555
 Equipment Code....: HG4

Analyst...: gok
 Test Code.: HG

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc. F	*	Limits	Date	Time	
MB	75551 -007		ug/L	0.20	U				%	80-120	02/11/2003	1241	
LCS	75551 -008	M02ESTK010	ug/L	1.97		2.00	0.20	U	99	%	02/11/2003	1243	
EB1	75551 -009	695	mg/L	0.00200	U						02/11/2003	1335	
MD	214949-20		mg/L	0.00200	U		0.00200	U	0.00020	A	0.00200	02/11/2003	1339
MS	214949-20	M02JSTK015	mg/L	0.01124		0.01000	0.00200	U	112	%	50-150	02/11/2003	1341

Q U A L I T Y A S S U R A N C E M E T H O D S

R E F E R E N C E S A N D N O T E S

Report Date: 02/14/2003

REPORT COMMENTS

- 1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
- 2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
- 3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
- 4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
- 5) Arizona Environmental Laboratory License number AZD6D3.
- 6) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

- U Analyte was not detected at or above the stated limit.
- < Not detected at or above the reporting limit.
- J Result is less than the RL, but greater than or equal to the method detection limit.
- B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
- S Result was determined by the Method of Standard Additions.
- F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

- (CV,CCV,LCB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
- * LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
- + MSA correlation coefficient is less than 0.995.
- 4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
- E SD: Serial dilution exceeds the control limits.
- H MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
- N MS, MSD: Spike recovery exceeds the upper or lower control limits.
- W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

- U Analyte was not detected at or above the stated limit.
- ND Compound not detected.
- J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
- Q Result was qualitatively confirmed, but not quantified.
- C Pesticide identification was confirmed by GC/MS.
- Y The chromatographic response resembles a typical fuel pattern.
- Z The chromatographic response does not resemble a typical fuel pattern.
- E Result exceeded calibration range, secondary dilution required.
- F AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

- B MB: Batch QC is greater than reporting limit.
- * LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
- EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
- A Concentration exceeds the instrument calibration range
- n Concentration is below the method Reporting Limit (RL)
- B Compound was found in the blank and sample.
- D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
- H Alternate peak selection upon analytical review
- I Indicates the presence of an interference, recovery is not calculated.
- M Manually integrated compound.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 02/14/2003

P The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%.

Abbreviations

AS	Post Digestion Spike (GFAA Samples - See Note 1 below)
Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column CCB Continuing Calibration Blank
CCV	Continuing Calibration Verification
CF	Confirmation analysis of original
C1	Confirmation analysis of A1 or D1
C2	Confirmation analysis of A2 or D2
C3	Confirmation analysis of A3 or D3
CRA	Low Level Standard Check - GFAA; Mercury
CRI	Low Level Standard Check - ICP
CV	Calibration Verification Standard
Dil Fac	Dilution Factor - Secondary dilution analysis
D1	Dilution 1
D2	Dilution 2
D3	Dilution 3
DLFac	Detection Limit Factor
DSH	Distilled Standard - High Level
DSL	Distilled Standard - Low Level
DSM	Distilled Standard - Medium Level
EB1	Extraction Blank 1
EB2	Extraction Blank 2
EB3	DI Blank
ELC	Method Extracted LCS
ELD	Method Extracted LCD
ICAL	Initial calibration
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A - ICAP
ISB	Interference Check Sample B - ICAP
Job No.	The first six digits of the sample ID which refers to a specific client, project and sample group Lab ID An 8 number unique laboratory identification
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) Preparation Blank
MD	Method Duplicate
MDL	Method Detection Limit
MLF	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PREPF	Preparation factor used by the Laboratory's Information Management System (LIMS)
PDS	Post Digestion Spike (ICAP)
RA	Re-analysis of original
A1	Re-analysis of D1
A2	Re-analysis of D2
A3	Re-analysis of D3
RD	Re-extraction of dilution
RL	Re-extraction of original
RC	Re-extraction Confirmation
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor

Q U A L I T Y A S S U R A N C E M E T H O D S

R E F E R E N C E S A N D N O T E S

Report Date: 02/14/2003

RT	Retention Time
RTW	Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number
SCH	Seeded Control Blank
SD	Serial Dilution (Calculated when sample concentration exceeds 50 times the MDL)
UCB	Unseeded Control Blank
SSV	Second Source Verification Standard
SLCS	Solid Laboratory Control Standard(LCS)
PHC	pH Calibration Check LCSP pH Laboratory Control Sample
LCDP	pH Laboratory Control Sample Duplicate
MDPH	pH Sample Duplicate
MDFP	Flashpoint Sample Duplicate
LCFP	Flashpoint LCS
G1	Gelex Check Standard Range 0-1
G2	Gelex Check Standard Range 1-10
G3	Gelex Check Standard Range 10-100
G4	Gelex Check Standard Range 100-1000
Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCS S=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)	
Note 2: The MD calculates an absolute difference (A) when the sample concentration is less than 5 times the reporting limit. The control limit is represented as +/- the RL.	

T R E N T **S T L**
STL Chicago

2417 Bond Street

University Park, IL 60466

Phone: 708-534-5200

Fax: 708-534-5211

Sampler Name:

Elizabeth M. Freeman

Signature:

Elizabeth M.

Project Name:

Hart Design Plot LAB

Project Number:

02200070.16

Address:

KANSAS CITY MO 64131

Phone:

816 941 8025

Fax:

E-Mail:

dbrewer@ssengineering.com

Quote:

Lab Lot# 214949**Contact** Sandy Weeks**Company** SCS Engineers**Address** 10401 Holmes**Address** SAME**Phone** 816 941 8025**Phone** 816 941 8025**Fax** 816 941 8025**Fax** 816 941 8025**PO#** (48) (46)**PO#** (48) (46)

Sample ID	Client	Sampling	Date	Time	Matrix	Comp/Grab	Upon Lab Time	Power Indicator	Y/N							
FD 1		1/29	2:40	6	G	X	X									
FD 2		1/30	10:15	5		X	X									
FD 3		1/30	10:00	5		X	X									
FD 4		1/29	2:15	3		X	X									
FD 5		1/29	1:55	3		X	X									
FD 6		1/29	3:25	3		X	X									
FD 7		1/29	4:20	3		X	X									
FD 8		1/29	3:45	3		X	X									
FD 9		1/29	3:05	3		X	X									
FD 10		1/29	3:30	3		X	X									
FD 11		1/30	9:45	4		X	X									
FD 12		1/30	9:30	4		X	X									

Additional Analyses / RemarksREMOVED BY Melissa J. COMPANY SSC ENGINEERS DATE 1/30/03 TIME 4:45REMOVED BY Junk COMPANY SL DATE 1/30/03 TIME 4:45

Method Key:

SF = Sediment

SO = Soil

DS = Diam. Soil

DL = Diam. Liquid

MS = Miscellaneous

L = Leachate

WI = Wipe

O = Other

A = Air

0 = None

REMOVED BY Melissa J. COMPANY SSC ENGINEERS DATE 1/30/03 TIME 4:45REMOVED BY Junk COMPANY SL DATE 1/30/03 TIME 4:45

Comments

Container Key:

1. Plastic

2. W/CA Vel

3. Sterile Plastic

4. Amber Glass

5. Widemouth Glass

6. Other

7. Name

Preservative Key:

1. HCl Cool to 4°

2. H2SO4 Cool to 4°

3. HNO3 Cool to 4°

4. NaOH Cool to 4°

5. NaOH/Zn Cool to 4°

6. Cool to 4°

7. Name

REMOVED BY Melissa J. COMPANY SSC ENGINEERS DATE 1/30/03 TIME 4:45REMOVED BY Junk COMPANY SL DATE 1/30/03 TIME 4:45

Comments

Date Received

1/31/03

TIME

Courier:

F

Hand Delivered

Bill of Lading

See attached

0

1

2

3

4

5

6

7

Name

WVW = Wastewater
W = Water
S = Soil
SL = Sludge
MS = Miscellaneous
OL = Oil
WI = Wipe
A = Air

