Appendices SCS ENGINEERS

# APPENDIX G CONTAMINANT EXCEEDANCE SPREADSHEET

Building ID	Contaminant exceeding Standard	Sample ID	Sample Results	Standard Exceeded	Exposure Scenario  Comments
102	PCB (wipe)	102FLOOR2WS	15 μg/cm²	TSCA: 10 μg/cm²	TSCA standard of 10
	<b>、</b> 1 <i>/</i>		10 μg/ σ	у облага ду, от	µg/cm² is for high density
					occupation and is
					considered to be a
					conservative value
102	Lead (wipe)	102CS ANNEALING	120 mg/Wipe, 8.5	MDNR (post abatement	Concentrations of lead in
		WIPE, 102FLOOW1WS	mg/Wipe, & 4.6 mg/Wipe,	clearance level for non-	wipes are anticipated to be
		1, 102FLOOR1WS 2	respectively	residential standard on floor	indicative of lead containing
				surfaces): 200 ug/ft² or ~ 1.85	paint rather than surface
				mg/Wipe	particulate with elevated
					concentrations of
					contaminant
102	Copper (sediments)	102D SS-13, 102 SED-1	'	1	Possible exposure to
			170,000 mg/Kg,	clayey soil scenario <u>and</u>	maintenance personnel when
			respecively	construction worker scenario)	working in the crawl space
					level
102	Arsenic (sediments)	102D SS-8, 102D SS-9,	17 mg/Kg, 570 mg/Kg,	l '	Possible exposure to
		102D SS-11, 102D SS-	200 mg/Kg, 30 mg/Kg, &	clayey soil scenario): 15.9	maintenance personnel when
		13, & 102D SS-14	18 mg/Kg, respectively	mg/Kg	working in the crawl space
100	1 17 19 13	1005 00 0 1005 00	0.400 /// 4.400	45564	level
102	Lead (sediments)	102D SS-8, 102D SS-	2,100 mg/Kg, 1,100		Possible exposure to
		10, 102D SS-11, 102D	mg/Kg, 880 mg/Kg, and	clayey soil scenario): 660	maintenance personnel when
		SS-13	2,500 mg/Kg, respectively	mg/Kg	working in the crawl space
102	Lead (shallow soils)	102 <i>C</i> SSS103,	2,900 mg/Kg, 2,300	MRBCA (non-residential with	Possible exposure to
102	Lead (Silation 20112)	102C555105, 102C555104,	mg/Kg, & 1,300 mg/Kg,	clayey soil scenario): 660	maintenance personnel when
		102CSSS104,	respectively	mg/Kg	working in the crawl space
		1020000100	respectively	ilig/ kg	llevel

2 11 11 -2	Contaminant exceeding				Exposure Scenario
Building ID	Standard	Sample ID	Sample Results	Standard Exceeded	Comments
102	PAHs	102D SS-8, 102D SS-9,	Maximum PAH	MRBCA (non-residential with	Possible exposure to
	[benzo(a)anthracene,	102D SS-10, 102D SS-	concentrations of	clayey soil scenario)	maintenance personnel when
	benzo(b)fluoranthene,	11, 102D 55-13, 102D	180,000 μg/Kg, 190,000		working in the crawl space
	benzo(a)pyrene,	SS-14, 102CSSS104,	µg/Kg, 150,000 µg/Kg,		level
	indeno(1,2,3-cd)pyrene,	102 <i>C</i> SSS106,	76,000 µg/Kg, & 24,000		
	&	102 <i>C</i> SSS108	μg/Kg		
	dibenzo(a,h)anthracene]				
	(shallow soils &				
	sediments)				
102	PAHs [benzo(a)pyrene]	102D 55-9	150,000 µg/Kg	MRBCA (construction worker	Possible exposure to
	(sediment)			scenario)	maintenance personnel when
					working in the crawl space
					level
102D	Lead (wipe)	102D WIPE FLOOR 1	3.2 mgWipe	MDNR (post abatement	Concentrations of lead in
				clearance level for non-	wipes are anticipated to be
				residential standard on floor	indicative of lead containing
				surfaces): 200 ug/ft² or ~ 1.85	paint rather than surface
				mg/Wipe	particulate with elevated
					concentrations of
					contaminant
102D	Arsenic (sediments)	102DCS CHEM FEED	46 mg/Kg	MRBCA (non-residential with	Possible exposure to
		SED		clayey soil scenario): 15.9	maintenance personnel when
				mg/Kg	working in the crawl space
				9, 119	level
102D	Mercury (wipe)	102DCS CHEM FEED	33,000 µg/Wipe	MRBCA (construction worker	Possible exposure to
				scenario): 21,600 µg/Kg	maintenance personnel when
					working in the crawl space
					level

Building ID	Contaminant exceeding Standard	Sample ID	Sample Results	Standard Exceeded	Exposure Scenario Comments
102E	Lead (wipe)	102EC5W5	82 mg/Wipe	clearance level for non-	Concentrations of lead in wipes are anticipated to be indicative of lead containing paint rather than surface particulate with elevated concentrations of contaminant
103	Lead (wipe)	103 <i>C</i> SWS1, 103 <i>C</i> SWS3, 103 <i>C</i> WS1	6.8 mg/Wipe, 2 mg/Wipe, & 2.5 mg/Wipe, respectively		Concentrations of lead in wipes are anticipated to be indicative of lead containing paint rather than surface particulate with elevated concentrations of contaminant
103D	Lead (wipe)	103DCSWS1, 103DCSWS2, 103DWS1	13 mg/Wipe, 2.7 mg/Wipe, & 2.6 mg/Wipe, respectively	clearance level for non-	Concentrations of lead in wipes are anticipated to be indicative of lead containing paint rather than surface particulate with elevated concentrations of contaminant

	Contaminant exceeding				Exposure Scenario
Building ID	Standard	Sample ID	Sample Results	Standard Exceeded	Comments
103E	Lead (wipe)	103E <i>C</i> SWS1, 103E <i>C</i> SWS2	33 mg/Wipe & 8.1 mg/Wipe, respectively	MDNR (post abatement clearance level for non- residential standard on floor surfaces): 200 ug/ft <sup>2</sup> or ~ 1.85 mg/Wipe	Concentrations of lead in wipes are anticipated to be indicative of lead containing paint rather than surface particulate with elevated concentrations of contaminant
104	Lead (wipe)	104CSWS1, 104CWS1, 104DWS1	2.5 mg/Wipe, 100 mg/Wipe, & 2 mg/Wipe, respectively	MDNR (post abatement clearance level for non- residential standard on floor surfaces): 200 ug/ft² or ~ 1.85 mg/Wipe	Concentrations of lead in wipes are anticipated to be indicative of lead containing paint rather than surface particulate with elevated concentrations of contaminant
104E (Child Care)	Lead (wipe)	104EWS1, 104EWS2	130 mg/Wipe & 2 mg/Wipe, respectively	MDNR (post abatement clearance level for non- residential standard on floor surfaces): 200 ug/ft <sup>2</sup> or ~ 1.85 mg/Wipe	Concentrations of lead in wipes are anticipated to be indicative of lead containing paint rather than surface particulate with elevated concentrations of contaminant
104E (Child Care)	Arsenic (shallow soils)	104ECSSS1	7.3 mg/Kg	MRBCA (residential with clayey soil scenario): 3.7 mg/Kg	No exposure to resident population anticipated based on contaminant location in shallow crawl space soils

	Contaminant exceeding				Exposure Scenario
Building ID	Standard	Sample ID	Sample Results	Standard Exceeded	Comments
104E	Beryllium (shallow soils)	104ECSSS1	1.5 mg/Kg	MRBCA (residential with	No exposure to resident
(Child Care)				clayey soil scenario): 0.45	population anticipated
				mg/Kg	based on contaminant
					location in shallow crawl
					space soils
Former	Mercury (soil boring)	5B22	560 mg/Kg	MRBCA (construction worker	No exposure to resident
104K & 104L				scenario): 21.6 mg/Kg	population based on depth
					of contaminant below paved
					parking lot
105	Lead (wipe)	105DCSWS2, 105WS1,	Concentrations from 4.9	MDNR (post abatement	Concentrations of lead in
		105WS2, 105WS3,	mg/Wipe to 38 mg/Wipe	clearance level for non-	wipes are anticipated to be
		105WS5, 105WS7,		residential standard on floor	indicative of lead containing
		105WS9, 105WS10		surfaces): 200 ug/ft $^2$ or $\sim$ 1.85	paint rather than surface
				mg/Wipe	particulate with elevated
					concentrations of
					contaminant
105	Arsenic (sediment)	105 SS-1	69 mg/Kg	MRBCA (non-residential with	Possible exposure to
				clayey soil scenario): 15.9	maintenance personnel when
				mg/Kg	working in the crawl space
					level
105	Lead (sediment)	105 55-1	16,000 mg/Kg	MRBCA (non-residential with	Possible exposure to
				clayey soil scenario): 660	maintenance personnel when
				mg/Kg	working in the crawl space
					level

Building ID	Contaminant exceeding Standard	Sample ID	Sample Results	Standard Exceeded	Exposure Scenario Comments
105	PAHs [benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, & dibenzo(a,h)anthracene] (sediment)	105 55-1	32,000 µg/Kg, 29,000 µg/Kg, 26,000 µg/Kg, & 6,300 µg/Kg, respectively	clayey soil scenario)	Possible exposure to maintenance personnel when working in the crawl space level
105	SVOC [bis(2- ethylhexyl)phthalate (water)	105SUMPH2O	0.011 mg/L	MRB <i>CA</i> : 0.006 mg/L	Possible exposure to maintenance personnel when working in the crawl space level and potential minimal impact to non-resident population and environment
105E	Lead (wipe)	105EWS1, 105EWS2	8.4 mg/Wipe & 3.7 mg/Wipe, respectively	MDNR (post abatement clearance level for non- residential standard on floor surfaces): 200 ug/ft <sup>2</sup> or ~ 1.85 mg/Wipe	Concentrations of lead in wipes are anticipated to be indicative of lead containing paint rather than surface particulate with elevated concentrations of contaminant
105E	Arsenic (sediment)	105E SS-1	27 mg/Kg	MRBCA (non-residential with clayey soil scenario): 15.9 mg/Kg	Possible exposure to maintenance personnel when working in the crawl space level
105E	PAHs [benzo(a)pyrene] (soil borings)	105-3	3,700 µg/Kg	MRBCA (non-residential with clayey soil scenario): 2,110 µg/Kg	No exposure to resident population based on depth of contaminant below established vegetation

Building ID	Contaminant exceeding Standard	Sample ID	Sample Results	Standard Exceeded	Exposure Scenario Comments
105E	SVOC [bis(2- ethylhexyl)phthalate (water)	105ESUMP	0.023 mg/L	MRBCA: 0.006 mg/L	Possible exposure to maintenance personnel when working in the crawl space level and potential minimal impact to non-resident population and environment
105F	Lead (wipe)	105FWS1, 105FWS2	3.3 mg/Wipe & 5.7 mg/Wipe, respectively	MDNR (post abatement clearance level for non- residential standard on floor surfaces): 200 ug/ft <sup>2</sup> or ~ 1.85 mg/Wipe	Concentrations of lead in wipes are anticipated to be indicative of lead containing paint rather than surface particulate with elevated concentrations of contaminant
108 <i>A</i>	PCB (soil borings)	SB126S-1	26,000 µg/Kg		No exposure to resident population based on depth of contaminant below established vegetation and paved surfaces
108 <i>A</i>	PCB (groundwater)	SB126	2.6 μg/L	MRB <i>CA</i> (lowest default scenario <u>and</u> residential scenario)	No exposure pathway
108B	PCB (groundwater)	SB133	0.62 μg/L	MRBCA (lowest default scenario <u>and</u> residential scenario)	No exposure pathway

	Contaminant exceeding				Exposure Scenario
Building ID	Standard	Sample ID	Sample Results	Standard Exceeded	Comments
103F/112	Lead (wipe)	112CSWS3, 112CSWS5,	9.3 mg/Wipe, 2.3	MDNR (post abatement	Concentrations of lead in
(Cafeteria)		112 WIPE 2 WOOD	mg/Wipe, 2.7 mg/Wipe, &	clearance level for non-	wipes are anticipated to be
		SHELF, 112 WIPE 17	7.9 mg/Wipe, respectively	residential standard on floor	indicative of lead containing
				surfaces): 200 ug/ft $^2$ or $\sim$ 1.85	paint rather than surface
				mg/Wipe	particulate with elevated
					concentrations of
					contaminant
103F/112	Mercury (sediment)	55-12	22 mg/Kg	MRBCA (construction worker	Possible exposure to
(Cafeteria)				scenario): 21.6 mg/Kg	maintenance personnel when
					working in the crawl space
					level
103F/112	Antimony (sediments)	SS-8 & SS-18	21,000 mg/Kg & 10,000	MRBCA (construction worker	Possible exposure to
(Cafeteria)			mg/Kg, respectively	with clayey soil scenario <u>and</u>	maintenance personnel when
				non-residential with clayey soil	working in the crawl space
				scenario)	level
103F/112	Antimony (sediment)	SS-12	960 mg/Kg	MRBCA (non-residential with	Possible exposure to
(Cafeteria)				clayey soil scenario)	maintenance personnel when
					working in the crawl space
					level
103F/112	Arsenic (sediments)	SS-8, SS-12, and SS-18	560 mg/Kg, 31 mg/Kg, &	MRBCA (non-residential with	Possible exposure to
(Cafeteria)			24 mg/Kg, respecively	clayey soil scenario): 15.9	maintenance personnel when
				mg/Kg	working in the crawl space
					level
103F/112	Arsenic (shallow soils)	112 SS 27 (SHALLOW)	28 mg/Kg & 20 mg/Kg,	MRBCA (non-residential with	Possible exposure to
(Cafeteria)		& 112 SS 28	respectively	clayey soil scenario): 15.9	maintenance personnel when
		(SHALLOW)		mg/Kg	working in the crawl space
					level

	Contaminant exceeding				Exposure Scenario
Building ID	Standard	Sample ID	Sample Results	Standard Exceeded	Comments
103F/112	Lead (sediments)	SS-8, SS-12, and SS-18	160,000 mg/Kg, 240,000	MRBCA (non-residential with	Possible exposure to
(Cafeteria)			mg/Kg & 110,000 mg/Kg,	clayey soil scenario): 660	maintenance personnel when
			respectively	mg/Kg	working in the crawl space
					level
103F/112	Lead (shallow soils)	112CSSS4, 112CSSS5, SS-16	Ranged from 760 mg/Kg	MRBCA (non-residential with	Possible exposure to
(Cafeteria)		(SHALLOW), 112 SS 3 (SHALLOW), 112 SS 5	to 14,000 mg/Kg	clayey soil scenario): 660	maintenance personnel when
		(SHALLOW), 112 SS 7		mg/Kg	working in the crawl space
		(SHALLOW), 112 SS 9			level
		(SHALLOW), 112 SS 13			
		(SHALLOW), 112 SS 38			
		(SHALLOW), 112 SS 40 (SHALLOW), 112 SS 41			
		(SHALLOW), 112 55 41 (SHALLOW), 112 55 42			
		(SHALLOW), 11255109			
103F/112	PAHs [benzo(a)pyrene]	112C5551	9,000 µg/Kg	MRBCA (non-residential with	Possible exposure to
(Cafeteria)	(shallow soils)			clayey soil scenario): 2,110	maintenance personnel when
				µg/Кg	working in the crawl space
					level
Utility	Lead (paint)	TUNNEL H20 PIPE	15,000 mg/Kg	HUD: 5,000 mg/Kg	Possible exposure to
Tunnel		PAINT			maintenance personnel when
					working in the crawl space
					level
Utility	Arsenic (sediments)	TS-1, TUNNEL SUMP 1	16 mg/Kg & 34 mg/Kg,	MRBCA (non-residential with	Possible exposure to
Tunnel			respectively	clayey soil scenario): 15.9	maintenance personnel when
				mg/Kg	working in the crawl space
					level

### ${\it Contaminant Exceedance Spreadsheet-Goodfellow Federal\ Center}$

Building ID	Contaminant exceeding Standard	Sample ID	Sample Results	Standard Exceeded	Exposure Scenario Comments
Utility Tunnel	Lead (sediments)	TS-1, TUNNEL SUMP 1, E112T SED, 112 TUNNEL SED1 TS1, B112 TUNNEL S, B112	Ranged from 1,800 mg/Kg to 8,300 mg/Kg	MRBCA (non-residential with clayey soil scenario): 660 mg/Kg	Possible exposure to maintenance personnel when working in the crawl space level
		TUNNEL SED N, B112 T SED FAR SOUTH			
Utility Tunnel	Lead (water)	TW-3	0.14 mg/L	MRBCA (lowest default scenario): 0.015 mg/L	Possible exposure to maintenance personnel when working in the crawl space level and potential minimal impact to non-resident population and environment
Sewer System	Lead (sediment)	SI-4	1,900 mg/Kg	MRBCA (non-residential with clayey soil scenario): 660 mg/Kg	Possible exposure to maintenance personnel when working in the crawl space level

# APPENDIX H LABORATORY DATA QUALITY REVIEW AND DISCUSSION

### **DATA QUALITY**

Data quality documentation provided by Severn Trent Laboratories was reviewed for conformance with guidelines established in *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, 1999, and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, 2004. Since the data packages were not complete CLP packages, the following elements were reviewed: holding times, calibration verification, blanks, laboratory control samples (LCS) and laboratory control duplicates (LCD), and matrix spike (MS) and matrix spike duplicates (MSD). On the basis of this review, the overall quality of the data relative to the contaminants of concerns was acceptable, and laboratory qualification of the data was accepted. A few specific data quality issues are discussed below:

- The LCS/LCD percent recoveries and the relative percent differences were outside control limits for many of the explosive wipe samples in several of the data packages. There is no sample volume to re-extract on wipe samples, so the LCS/LCD results could not be corrected. Most of the compounds were only slightly outside control limits and/or were above the control limits. Three exceptions are particularly low recoveries noted for 2,4,6 trinitrotoluene (TNT), 1,3,5 trinitrobenzene (TNB), and tertyl in one or more of the following data packages: 211929, 219204, 211976, and 21964. Of these compounds, TNB and TNT are potential compounds of concern at the site that were detected in a number of wipe and sediment/soil samples. However, since the wipe samples were used for screening purposes, data were not further qualified on the basis of the wipe sample explosive LCS/LCD results. Detected concentrations of TNT and TNB in these samples are assumed to be estimated low.
- LCS percent recoveries were outside control limits for a few analytes and compounds in various data packages. However, the only contaminants of concern affected were Aroclor 1260 in data package 223259 and naphthalene in data package 249132. Since Aroclor 1260 recovery was slightly higher than the upper control limit, detected concentrations in the associated samples are assumed estimated high. Naphthalene recovery was below the control limit. It was not detected in the associated samples, but may be present.
- MS/MSD recoveries were outside control limits for a selected analytes and compounds in various data packages. However, with the exception of the explosive wipe samples discussed above, LCS/LCD results for the analytes and compounds of concern in these packages were generally within control limits. Two exceptions were Aroclor 1260 in data package 223259 and naphthalene in data package 249132, as discussed above. Data were not further qualified on the basis of the MS/MSD results.
- A few analytes and compounds were detected in method blanks in various data packages. However, the majority of these were either detected below the reporting

limit in the blank or also detected in the samples at more than ten times the concentration detected in the blank, so data were not further qualified as a result. Copper was detected in the method blank for data package 223220, and the results in three samples in this package that were below ten times the blank concentration are considered non-detect.

- Some metal serial dilutions were outside control limits, but these were not considered significant, and data were not further qualified as a result.
- The holding time was exceeded for the mercury analysis on one sample (104EPAINT). The concentration of mercury detected in the sample is considered estimated low.

Some surrogate recoveries in selected samples for SVOC and PCB analyses were outside control limits. A few of these were the result of sample dilution. Data were not further qualified as the result of the surrogate recoveries.

### Lab Report 211929 (09/26/2002): Metals, PCBs, Explosives

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**Metals:** Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits. No analytes were detected in the method blank, except for calcium and zinc. However, calcium and zinc were detected in the samples at concentrations greater than ten times the level detected in the method blanks. Percent recoveries within the LCS were within control limits. Serial dilution analyses were within control limits except for potassium and zinc in sample Bldg105EWS1.

**PCBs:** No Aroclors were detected in the method blanks and all surrogate recoveries were within control limits. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines on both columns. Percent recoveries in the LCS and LCD were all within control limits and the relative percent differences were less than 20 percent.

**Explosives:** Surrogate recovery was within control limits and no analytes were detected in the method blank. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines.

There were numerous percent recoveries in the LCS/LCD that were outside control limits including HMX, RDX, 1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 2,4,6-TNT, Tetryl, 2-Amino-4,6-Dinitrotoluene, 4-Amino-4,6-Dinitrotoluene, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, and 4-Nitrotoluene. Most of these however, were just outside the control limits. The exceptions are 2,4,6-TNT with LCS/LCD recoveries of 0% and 33%, respectively; Tetryl with LCS/LCD recoveries of 9% and 0%, respectively; and 1,3,5-Trinitrobenzene, with LCS/LCD recoveries of 74% and 54%, respectively. The relative

percent difference between the LCS/LCD recoveries was less than 20 percent except for 1,3,5-Trinitrobenzene (31%), 2,4,6-TNT (200%), and Tetryl (200%).

### <u>Lab Report 211927 (09/26/2002): Metals, PCBs, Explosives, Semivolatile Organics, and VOCs</u>

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**Metals:** Except for iron, no analytes were detected in the method blanks. Iron was not detected during reanalysis. Percent recoveries in the laboratory control sample (LCS) were within control limits. Duplicate analyses conducted for sample 105-1 had relative percent differences of less than 20 percent except for barium (23%) and calcium (67.5%).

Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for sample 105-1 were within control limits except for antimony (MS/MSD), barium (MS/MSD), chromium (MSD), lead (MS/MSD), potassium (MS/MSD), and zinc (MSD). Aluminum (29.2%), barium (102%), chromium (46.2%), iron (173.9%), lead (195.8%), manganese (212.1%), and zinc (46.6%) had MS/MSD relative percent differences of greater than 20 percent.

Serial dilution analysis for sample 105-1 was outside control limits for 12 of the 21 metals.

Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines. All initial and continuing calibration blanks were within control limits except for calcium in batch 63630. Calcium was detected in the samples at concentrations greater than ten times the level detected in the continuing calibration blanks, therefore, reanalysis was not conducted.

**PCBs:** No Aroclors were detected in the method blanks and all surrogate recoveries were within control limits. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines. Percent recoveries in the laboratory control sample (LCS) were all within control limits. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for 105-1 were within control limits and relative percent differences were less than 20 percent.

**Explosives:** No analytes were detected in the method blank. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines. All surrogate recoveries were within control limits. The percent recoveries in the LCS were within control limits. MS/MSD analyses on sample 105-1 were within control limits except for 4-Amino-2,6-Dinitrotoluene. All relative percent differences were less than 30 percent.

**Semivolatile Organics:** No analytes were detected in the method blanks and all surrogate recoveries were within control limits except for sample 105-3 which was diluted. The percent recoveries in the LCS were within control limits except for Benzidine (0% recovery) in batch 62700. The percent recoveries in the LCS/LCD were within control limits for batch 63295 except for Cabazole (LCD recovery of 107%). All LCS/LCD relative percent differences were less than 20 percent.

Several analytes had MS/MSD recoveries outside control limits for sample 105-3. Twelve analytes were outside MS control limits and 16 were outside MSD control limits. Twenty-four analytes had MS/MSD relative percent differences greater than 20 percent.

**Volatile Organics:** The method, extraction, and dilution blanks were below the reporting limits and surrogate recoveries were within control limits. The percent recoveries in the LCS were within control limits with the exception of Dichlorodifluoromehane in batch 62817; and Dibromochloromethane, 1,1,1,2-Tetrachloroethane, and Bromoform in batch 63292.

## <u>Lab Report 211977 (09/26/2002): Metals, PCBs, Explosives, Semivolatile Organics, and VOCs</u>

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**Metals:** Except for zinc, no analytes were detected in the method blanks. Percent recoveries in the laboratory control sample (LCS) and laboratory control sample duplicates (LCD) were within control limits. Duplicate analyses conducted for zinc in sample 105SUMPH2O, and sodium and mercury in 105DCSSS1 were within control limits. Duplicate analyses conducted on sample 105DCSSS1 were within required percent differences except for lead (41.2%).

Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for zinc in sample 105SUMPH2O, sodium in sample 105DCSSS1, cyanide in samples 105FSUMP and 105DCSSS1, phosphorous in samples105SUMPH2O and 105DCSSS1, and mercury in sample 105DCSSS1 were within control limits. MS/MSD recoveries in sample 211977-16 were outside control limits for antimony (MS/MSD), arsenic (MSD), barium (MSD), chromium (MSD), selenium (MSD), vanadium (MSD), and zinc (MSD). Aluminum, antimony, arsenic, barium, copper, iron, lead, magnesium, manganese, and zinc had MS/MSD relative percent differences of greater than 20 percent. Serial dilution analysis for sample 105SUMPH2O (zinc) and sample 105DCSSS1 (sodium) were within control limits. Serial dilution analyses for sample 105DCSSS1 were outside control limits for zinc.

Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines except for lead (107%) and calcium in an initial calibration blank (105.8 ug/L).

PCBs: No Aroclors were detected in the method blanks and all surrogate recoveries were within control limits. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines, except for Aroclor 1260 in the primary column. Percent recoveries in the laboratory control sample (LCS) and laboratory control sample duplicate (LCD) were all within control limits. The relative percent difference between the LCS and the LCD was within 20 percent. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for 105DCSSS1 were outside control limits for both Aroclor 1016 (MS 63%) and Aroclor 1260 (MS 61%, MSD 66%). Relative percent differences were less than 20 percent.

**Explosives:** No analytes were detected in the method blank. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines. All surrogate recoveries were within control limits. The percent recoveries in the LCS/LCD were within control limits and relative percent differences were less than 20 percent. MS/MSD analyses on sample 105DCSSS1 were within control limits and relative percent differences were less than 30 percent.

Semivolatile Organics: No analytes were detected in the method blanks and all surrogate recoveries were within control limits. The percent recoveries in the LCS/LCD were within control limits and relative percent differences were less than 20 percent. MS/MSD recoveries for sample 105DCSSS1 were within control limits except for 2,4-Dinotrophenol (MS 20%, MSD 26%), 4,6-Dinitro-2-methylphenol (MS 23%, MSD 30%), Benzoic acid (MSD 38%), and Benzidine (MSD 0%). Relative percent differences were less than 20 percent except for 2,4-Dinotrophenol (26%), 4,6-Dinitro-2-methylphenol (26%), and Benzidine (200%).

**Volatile Organics:** The method blanks were below the reporting limits and surrogate recoveries were within control limits. The percent recoveries in the LCS were within control limits with the exception of Dichlorodifluoromethane and Vinyl chloride in Batch 63494-022, and Isopropylbenzene in Batch 63220-017. Matrix spike analyses for sample 105DCSSS1 were outside control limits for several analytes, including: Dichlorodifluoromethane, Acetone, Methyl-tert-butyl-ether (MTBE), 2-Butanone, 4-Methyl-2-pentanone, 2-Hexanone, Styrene, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, and 1,2-Dibromo-3-chloropropane.

### Lab Report 211976 (09/27/2002): Metals, PCBs, and Explosives

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**Metals:** No analytes were detected in the method blank and percent recoveries in the laboratory control sample (LCS) were within control limits. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines.

**PCBs:** No analytes were detected in the method blank, and percent recoveries in the laboratory control sample (LCS) and laboratory control sample duplicate (LCD) were all within control limits. The relative percent difference between the LCS and the LCD was within 20 percent. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines.

**Explosives:** No analytes were detected in the method blank. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines. With the exception of one sample, which had a recovery of 158% (1,2-DNB), all surrogate recoveries were within control limits. The percent recoveries in the LCS were within control limits with the exception of 1,3,5 Trinitrobenzene (53%), 2,4,6-TNT (44%), Tetryl (0%), and 4-Amino-2,6-Dinitrotoluene (157%). The LCD recoveries were within control limits with the exception of 2,4,6-TNT (63%), Tetryl (1%), and 4-Amino-2,6-Dinitrotoluene (168%). The relative percent difference between the LCS and the LCD was within 20 percent except for Tetryl (200%), 2,4,6-TNT (37%), and. 1,3,5 Trinitrobenzene (52%).

### <u>Lab Report 219164 (08/13/2003): Metals; PCBs; Explosives; Semivolatile Organics; and Cyanide, pH, and Phosphorus</u>

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**Metals:** Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits. No analytes were detected in the method blanks except for calcium and lead; however, they were detected in the samples at concentrations greater than ten times the level detected in the method blanks. Percent recoveries within the LCS were within control limits. Serial dilution analyses were within control limits for 102D elevator shaft sample.

**PCBs:** No Aroclors were detected in the method blanks and all surrogate recoveries were within control limits except for sample 102DCS CHEM FEED SED, which did not allow recovery due to dilution. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines on both columns. Percent recoveries in the LCS and LCD were all within control limits and the relative percent differences were less than 30 percent.

**Explosives:** No analytes were detected in the method blank. All surrogate recoveries were within control limits except for sample 102D WIPE FLOOR 1, which had a 1,2-DNB recovery of 65 percent. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines except for RDX on the primary column. RDX was not detected, however, in those samples. LCS and LCD analyses were performed on two batches. The majority of percent recoveries (9 of 14 analytes) in the LCS/LCD for Batch 91652 were outside control limits. The percent recoveries in the LCS/LCD for Batch 90909 were within control limits except for 1,3,5-

Trinitrobenzene (31%, 33%), 2,4,6-TNT (16%, 13%), and Tetryl (15%, 10%). Except for Tetryl (39%), all relative percent differences were within 30 percent.

**Semivolatile Organics:** No analytes were detected in the method blank. All surrogate recoveries were within control limits except for the sample 102D CORNER SPILL which was diluted and allowed no surrogate recovery. The percent recoveries in the LCS were within control limits with the exception of Benzoic Acid (169%), 2,4-Dinitrophenol (36%), and Benzidine (0%).

Cyanide, pH, and Phosphorus: The method blanks were less than the reporting limits. The percent recoveries for the LCS were within control limits. The percent recoveries for MS/MSD for phosphorus in sample 102CS ANNEALING SED were within control limits. However, the MS for cyanide in sample 102D CORNER SPILL was outside control limits (128%). The lab stated that this spike was less than ¼ of the sample concentration and was not expected to be within acceptance limits.

### <u>Lab Report 219204 (08/13/2003): Metals, PCBs, Explosives, Semivolatile Organics, and VOCs</u>

Samples received by the laboratory were extracted and analyzed within applicable holding times.

Metals: Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits. No analytes were detected in the method blanks except for calcium and lead; however, they were detected in the samples at concentrations greater than ten times the level detected in the method blanks. Percent recoveries within the LCS were within control limits. Duplicate analyses conducted on 102ECSSOIL were within the 20 percent relative percent difference, except for barium (41.2%), calcium (43.2%), cobalt (36.1%), lead (59.6%), and manganese (53.9%). Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for 102ECSSOIL were all within control limits except for antimony, arsenic, barium, lead, magnesium, and potassium, and selenium. Calcium and lead had MS/MSD relative percent differences of greater than 20 percent. Serial dilution analyses were all outside control limits for sample 102ECSSOIL.

PCBs: No Aroclors were detected in the method blanks and all surrogate recoveries were within control limits except for samples that required dilution (102FLOOR2WS, 103CSWS3, 104CSWS1, 102CSCONCRETE BASIN, 104CSSS1, 104CSPIPE, and 104CSSS3). Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines. Percent recoveries in the laboratory control sample (LCS) were all within control limits. LCD recoveries were within control limits and the relative percent differences were less than 30 percent. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for 104CSWS1 were outside control limits (no recovery) due to dilution.

**Explosives:** No analytes were detected in the method blanks and all surrogate recoveries were within control limits. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines except for RDX on the primary column. RDX was not detected, however, in those samples. LCS and LCD analyses were performed on four batches. All LCS recoveries were within control limits for Batch 91101. The majority of percent recoveries (9 of 14 analytes) in the LCS/LCD for Batch 91352 were outside control limits. The percent recoveries in the LCS/LCD for Batch 91652 were outside control limits for 11 of 14 analytes. Three analyte recoveries were outside control limits for LCS/LCD for Batch 90909. Since these were wipe samples, there was no sample volume to re-extract. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for sample 103CSSOIL3 were all within control limits and all relative percent differences were less than 30%.

Semivolatile Organics: No analytes were detected in the method blank. All surrogate recoveries were within control limits except for the sample 103CSSSOIL2, which had a 30% recovery of 2-Fluorophenol. Additionally, sample 102CSCONCRETE BASIN was diluted and allowed no surrogate recovery. The percent recoveries in the LCS were within control limits with the exception of Benzoic Acid (169%), 2,4-Dinitrophenol (36%), and Benzidine (0%).

There were several percent recoveries in the MS/MSD that were outside control limits for sample 103CSSSOIL4. Those analytes outside the MS control limits include: Benzyl alcohol (0%), Benzoic acid (212%), 4-Chloroaniline (11%), 3-Nitroaniline (25%), 2,4-Dinitrophenol (35%), 4,6-Dinitro-2-methylphenol (61%), Benzidine (0%), and 3,3-Dichlorobenzidine (0%). Those outside the MSD control limits include: Benzyl alcohol (0%), Benzoic acid (256%), 4-Chloroaniline (4%), 2,4,6-Trichlorophenol (55%), 3-Nitroaniline (20%), 2,4-Dinitrophenol (31%), 4,6-Dinitro-2-methylphenol (59%), Benzidine (0%), and 3,3-Dichlorobenzidine (0%). Except for 2,4-Dimethylphenol (86%), 4-Chloroaniline (93%), 3-Nitroaniline (22%), all relative percent differences between the MS and MSD were less than 20 percent.

**VOCs:** Except for Trichlorofluoromethane (5.04 ug/Kg) in one dilution blank, no analytes were detected in the method, extraction, or dilution blanks. There was insufficient volume to rerun the analysis. All surrogate recoveries were within control limits except for Dibromofluoromethane (147%) in sample 102CSCONCRETE BASIN. The percent recoveries in the LCS/LCD were within control limits and all relative percent differences were less than 20 percent.

### <u>Lab Report 219240 (08/13/2003): Metals, PCBs, Explosives, Semivolatile Organics, and VOCs</u>

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**Metals:** Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits. No analytes were detected in the method

blanks except for calcium, however, it was detected in the samples at concentrations greater than ten times the level detected in the method blank. Percent recoveries within the LCS were within control limits. Duplicate analyses conducted on 104FCSSS1 were within the 20 percent relative percent difference, except for barium (30.9%), calcium (57.9%), cobalt (36.3%), copper (65.8%), lead (181.8%), magnesium (28.4%), and nickel (59.6%).

Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for 104FCSSS1 were all within control limits except for antimony (MS/MSD), copper (MS/MSD), lead (MS/SD), magnesium (MS), and zinc (MS/MSD). Barium, copper, iron, magnesium, and zinc had MS/MSD relative percent differences of greater than 20 percent. Serial dilution analyses for sample 104FCSSS1 were outside control limits for barium, calcium, chromium, cobalt, iron, magnesium, manganese, and zinc. Serial dilution analyses for sample 104FCSWS were outside control limits for calcium, potassium, and sodium.

PCBs: No Aroclors were detected in the method blanks. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines. All surrogate recoveries were within control limits except for TCX recovery in the LCS/LCD sample for prep batch 91046 and for samples that required dilution (112CSSS1, 112CSSS3, 112CSSS4, and 112CSSS5). Percent recoveries in the laboratory control sample (LCS) were all within control limits. LCD recoveries were within control limits and the relative percent differences were less than 30 percent. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for 104FCSSS1 were outside control limits for Aroclor 1260 (MS 108%). Relative percent differences were less than 30 percent.

**Explosives:** No analytes were detected in the method blanks and all surrogate recoveries were within control limits. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines.

LCS and LCD analyses were performed on three batches. All LCS recoveries were within control limits for Batch 92586. The majority of percent recoveries (9 of 14 analytes) in the LCS/LCD for Batch 92628 were outside control limits. The relative percent differences for this batch were within 30 percent, except for Tetryl (200%). The percent recoveries in the LCS/LCD for Batch 92633 were outside control limits for 11 of 14 analytes. Except for Tetryl (66%), the relative percent differences for this batch were less than 30 percent.

Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for sample 112CSSS1 were all within control limits except for RDX, 2,4,6-TNT, 4-Amino-2,6-Dinitrotoluene, and 3-Nitrotoluene, and Nitrobenzene. All relative percent differences were less than 30 percent except for 2,4,6-TNT and 2-Nitrotoluene.

**Semivolatile Organics:** No analytes were detected in the method blank. All surrogate recoveries were within control limits except for the sample 103ECSSS2, which had a 1% recovery of 2,4,6-Tribromophenol and sample 112CSSS1, which had a 18% recovery 2-

Fluorophenol. Additionally, sample 112CSS1 was diluted and allowed no surrogate recovery. The percent recoveries in the LCS were within control limits with the exception of Dimethyl Phthalate (36%), and Benzidine (0%).

**VOCs:** Except for Trichlorofluoromethane (5.04 ug/Kg) in one dilution blank, no analytes were detected in the method, extraction, or dilution blanks. All surrogate recoveries were within control limits. The percent recoveries in the LCS/LCD were within control limits and all relative percent differences were less than 20 percent.

### Lab Report 219725 (08/18/2003): Metals (Silver)

Samples received by the laboratory were analyzed within applicable holding times. Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits and silver was not detected in the method blank. The LCS value was within the 80 - 120% control limits. Duplicate analysis was within limits. Matrix spike (MS) recovery was within the 50 - 150% control limit.

### Lab Report 220008 (09/03/2003): Metals (Mercury)

Samples received by the laboratory were not analyzed within applicable holding times. Mercury was detected in the sample (2.3 mg/Kg), so the sample was not rejected due to the exceeded holding time. This result is considered estimated low. Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits and mercury was not detected in the method blank. The LCS value was within the 80 - 120% control limits.

#### **Lab Report 223164 (12/31/2003): Metals and PCBs**

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**Metals:** Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits. No analytes were detected in the method blank; except for calcium, which was greater than the method detection limit, but less than the reporting limit. Percent recoveries in the LCS were within control limits. Duplicate analyses conducted on SS-1 (shallow) were within the 20 percent relative percent difference, except for cobalt (46.2%), lead (172.5%), and zinc (73.3%). Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for SS-1 and SS-14 (deep) were all within control limits except for antimony and zinc. All relative percent differences were less than 20 percent except for iron (33.5%) and zinc (104.9%). Serial dilution analysis was within control limits except for lead and zinc in SS-1.

**PCBs:** No Aroclors were detected in the method blanks and all surrogate recoveries were within control limits except for TCX in samples SS-16 (shallow) (36%) SS-18 (118%) and DCB in sample SS-18 (130%). Additionally, sample SS-17 was diluted so both DCB and TCX could not be recovered.

Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines, except for Aroclor 1016 in the primary column. However, target compounds were not detected in these samples.

Percent recoveries in the laboratory control sample (LCS) were all within control limits. LCD recoveries were within control limits and the relative percent differences were less than 30 percent. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for SS-1 (deep) were all within control limits and all relative percent differences were less than 30 percent. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for SS-18 were outside control limits for both Aroclor 1016 and Aroclor 1260, however, the relative percent differences were less than 30 percent.

#### Lab Report 222879 (12/22/2003): Metals

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**Metals:** Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits. No analytes were detected in the method blank. The method duplicate analyses for sample SS1 ST. VINCENT PARK were within required relative percent differences except for calcium (43.2%). All LCS recoveries were within control limits. Matrix spike (MS) and/or matrix spike duplicate (MSD) recoveries for sample SS1 ST. VINCENT PARK were outside control limits for antimony, magnesium, and potassium. The relative percent difference between the MS and the MSD was within 20 percent except for aluminum (33.8%), iron (108.8%), and manganese (71%). Serial dilution analysis was within control limits, except for zinc.

### <u>Lab Report 223219 (01/07/2004): Metals, PCBs, Explosives, Semivolatile Organics, and VOCs</u>

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**Metals:** Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits. No analytes were detected in the method blanks except for copper and iron in prep batch 105950. The iron concentrations found in the samples were greater than ten times that detected in the method blank, so no reanalysis was conducted. The samples that were less than ten times the method blank concentration for copper were reanalyzed.

Percent recoveries within the LCS were within control limits except for potassium. Duplicate analyses conducted on 102D SS-12 were within the 20 percent relative percent difference, except for barium (90.5%), copper (50.1%), iron (22.4%), and lead (52.3%). Duplicate analyses conducted on 102D SS-1 SHALLOW were within the 20 percent relative percent difference, except for calcium (40.0%), and magnesium (28.9%).

Duplicate analyses conducted on 102D SS-13 were within the 20 percent relative percent difference, except for antimony (33.4%), and zinc (25.3%).

Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for 102 SS-12 were all within control limits. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for 102D SS-1 SHALLOW were all within control limits except for antimony, magnesium, and potassium. Aluminum, calcium, iron, and magnesium had MS/MSD relative percent differences of greater than 20 percent. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for sample 102D SS-13 were all within control limits except for aluminum, arsenic, cadmium, magnesium, nickel, and thallium. MS/MSD relative percent differences were greater than 20 percent for aluminum, arsenic, chromium, lead, magnesium, manganese, nickel, selenium, silver, and sodium. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for 102D SS-1 DEEP (mercury) were within control limits with a relative percent difference of less than 20 percent.

Serial dilution analyses for sample 102 SS-12 were within control limits. Serial dilution analyses for sample 102D SS-1 SHALLOW were outside control limits for cobalt, magnesium, manganese, and zinc. Serial dilution analyses for sample 102D SS-13 were outside control limits for copper and lead.

**PCBs:** No Aroclors were detected in the method blanks. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines. All surrogate recoveries were within control limits except for TCX recovery in samples 102D SS-9 and 105 SS-1 and both DCB and TCX recovery in sample 102D SS-10. Additionally, sample 102D SS-8 required dilution and surrogate recovery was not possible. Percent recoveries in the laboratory control sample (LCS) were all within control limits. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for 223219-1 were outside control limits for Aroclor 1260 (MS 109%). Relative percent differences were less than 30 percent.

**Explosives:** No analytes were detected in the method blanks and all surrogate recoveries were within control limits. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines. All LCS recoveries were within control limits. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for sample 102D SS-1 DEEP were all within control limits with all relative percent differences less than 30 percent.

Semivolatile Organics: No analytes were detected in the method blanks. All surrogate recoveries were within control limits except for 2,4,6-Tribromophenol recovery in samples 102D SS-13 (and its subsequent dilutions) and 102D SS-12, 2-Fluorobiphenyl in sample 102D SS-14, 2-2-Fluorophenyl in sample 102D SS-12, Phenol-d5 in 102D SS-12, and Terphenyl-d14 in sample102D SS-12. Additionally, sample 105 SS-1 was diluted and allowed no surrogate recovery. The percent recoveries in the LCS were within control limits with the exception of Benzoic acid and Hexachlorocyclopentadiene. LCD percent recoveries were within control limits except for Hexachlorocyclopentadiene.

LCS/LCD relative percent differences were less than 20 percent except for Benzoic acid (86%), Benzidine (52%), and Benzo(k)fluoroanthene (31%).

**VOCs:** No analytes were detected in the method blanks. All surrogate recoveries were within control limits. The percent recoveries in the LCS were within control limits except for Bromomethane, Chloroethane, Trichlorofluoromethane, 1,2,4-Trimethylbenzene, n-Butylbenzene, and 1,2,3-Trichlorobenzene.

### **Lab Report 223220 (01/09/2004): Metals, PCBs, Explosives**

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**Metals:** Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits. No analytes were detected in the method blank, except for calcium, copper, and iron. Except for copper, all sample concentrations were greater than ten times the level detected in the method blanks; reanalysis was not required. Copper results in samples 6, 8, and 9 were less than ten times the method blank, but redigestion and reanalysis could not be performed on the wipes. LCS values were within control limits except for potassium (76%).

**PCBs:** No Aroclors were detected in the method blanks and all surrogate recoveries were within control limits except for DCB in sample 110WS-2 (29%) and sample 108B WS-2 (21%). Additionally, sample 102 SED-1 was diluted so both DCB and TCX could not be recovered. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines, except for Aroclor 1260 in one column. However, target compounds were not identified in samples associated with that particular verification. Percent recoveries in the laboratory control sample (LCS) were all within control limits except for Aroclor 1260 (110%). LCD recoveries were within control limits and the relative percent differences were less than 30 percent.

**Explosives:** Surrogate recovery was within control limits and no analytes were detected in the method blank. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines. LCS values were within method-specific control limits. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for sample TS-1 were all within control limits and all relative percent differences were less than 30%.

### <u>Lab Report 223218 (01/28/2004): Metals, PCBs, Explosives, VOCs, Hydrocarbons, and pH</u>

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**Metals:** Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits. No analytes were detected in the method

blanks. Duplicate analyses were within the required relative percent difference (20%) except for cobalt (84.6%), copper (21.3%), lead (41.4%), and manganese (82.8%). Percent recoveries within the LCS were within control limits of 80% - 120% except for potassium (79%). Serial dilution analyses were within control limits for sample SB18 except for zinc.

Matrix spike (MS) recoveries were outside control limits for antimony, magnesium, mercury, and potassium in sample SB18; MSD recoveries were outside control limits for antimony and potassium. The relative percent difference between the MS and the MSD was within 20 percent except for aluminum (45.4%), arsenic (21.1%), iron (72.2%), magnesium (37.8%), manganese (84.5%), mercury (61.4%), and potassium (30.5%).

**PCBs:** No Aroclors were detected in the method blanks and all surrogate recoveries were within control limits. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines on both columns. Percent recoveries in the LCS were within control limits. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for sample SB18 were within control limits and the relative percent difference was less than 30 percent.

**Explosives:** No analytes were detected in the method blank. All surrogate recoveries were within control limits. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines. Percent recoveries in the LCS were within control limits. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for sample SBSS23 were within control limits and the relative percent difference was less than 30 percent, except for Tetryl, which had a 30% recovery for both.

**VOCs:** No analytes were detected in the method, extraction, or dilution blanks. All surrogate recoveries were within control limits. The percent recoveries in the LCS were within control limits.

**Hydrocarbons:** The method blank was below the reporting limits for DRO and surrogate recoveries were within control limits. LCS values were within method-specific control limits.

**pH:** The absolute difference in pH for the duplicate was high at 0.23.

### <u>Lab Report 223259 (01/28/2004): Metals, PCBs, Hydrocarbons (DRO/GRO), Semivolatile Organics, Explosives</u>

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**Metals:** Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits. No analytes were detected in the method blank except for calcium and iron; however, sample concentrations were greater than ten

times the level detected in the method blanks, reanalysis was not required. The relative percent differences for the duplicate analyses of sample 104 RRTRACK SUBGRD were within 20 percent, except for cobalt. LCS values were within control limits, except for potassium (76%). Matrix spike (MS) and/or matrix spike duplicate (MSD) recoveries for sample 104 RRTRACK SUBGRD were outside control limits for antimony, calcium, and lead. The relative percent difference between the MS and the MSD was within 20 percent except for calcium (26.2%), and iron (127.8%). Serial dilution analysis was within control limits.

**PCBs:** No Aroclors were detected in the method blanks and all surrogate recoveries were within control limits. Percent recoveries in the laboratory control sample (LCS) and laboratory control sample duplicate (LCD) were all within control limits, except for Aroclor 1260 (110%). The relative percent difference between the LCS and the LCD was within 30 percent. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines, except for Aroclor 1260 in one column. However, target compounds were not identified in samples associated with that particular verification and a second column was used.

**Hydrocarbons:** The method blanks were below the reporting limits for DRO and GRO and surrogate recoveries were within control limits. LCS values were within method-specific control limits. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for sample SB41 were outside control limits for DRO (124%); the relative percent difference was less than 30%. Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits.

Semivolatile Organics: All surrogate recoveries were within control limits and no analytes were detected in the method blank. The percent recoveries in the LCS were within control limits with the exception of 1,2,4-Trichlorobenzene (159%), 2,6-Dinitrotoluene (55%), and 4-Bromophenyl phenyl ether (60%). The LCD recoveries were within control limits with the exception of n-Nitrosodiphenylamine (59%). The relative percent difference between the LCS and the LCD was within 20 percent except for 2-Methylnaphthalene (49%), 2,6-Dinitrotoluene (47%), 4-Bromophenyl phenyl ether (37%), Hexachlorobenzene (21%), Diethyl phthalate (40%), and n-Nitrosodiphenylamine (28%).

**Explosives:** Surrogate recovery was within control limits and no analytes were detected in the method blank. LCS values were within method-specific control limits. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for sample SI-1 were outside control limits for Tetryl (MS 9%, MSD 7%), 4-Amino-2,6-Dinitrotoluene (MS 165%, MSD 166%). All relative percent differences were less than 30%.

### <u>Lab Report 223146 (01/28/2004): Metals, PCBs, Hydrocarbons (DRO/GRO), VOCs, Semivolatile Organics, Explosives</u>

Samples received by the laboratory were extracted and analyzed within applicable holding times.

Metals: Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits. No analytes were detected in the method blank, except for calcium; which was greater than the method detection limit, but less than the reporting limit. The relative percent differences for the duplicate analyses for sample SB15-SB16 were within 20 percent, except for barium (49.6%), chromium (20.6%), cobalt (20.6%), and manganese (51.9%). LCS values were within control limits. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for sample SB15-SB16 were outside control limits for antimony and magnesium; MSD recoveries were outside control limits for lead and manganese. The relative percent difference between the MS and the MSD was within 20 percent except for aluminum (32.9%), iron (103.5%), lead (31.3%), manganese (157.9%), and sodium (33%). Serial dilution analysis was within control limits.

**PCBs:** No Aroclors were detected in the method blanks and all surrogate recoveries were within control limits except for TCX (122%) and DCB (133%). Percent recoveries in the laboratory control sample (LCS) were all within control limits. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines.

**Hydrocarbons:** The method blanks were below the reporting limits for DRO and GRO and surrogate recoveries were within control limits. LCS values were within method-specific control limits. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries were conducted for GRO (sample SB17) and were within control limits with a relative percent difference of less than 30%. Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits.

**Semivolatile Organics:** All surrogate recoveries were within control limits and no analytes were detected in the method blank. The percent recoveries in the LCS were within control limits with the exception of 3-Nitroaniline (115%).

**Volatile Organics:** The method blanks were below the reporting limits and surrogate recoveries were within control limits. The percent recoveries in the LCS were within control limits with the exception of 4-Methyl-2-pentanone (65%), 2-Hexanone (68%), n-Butylbenzene (121%), and 1,2,3-Trichlorobenzene (121%).

**Explosives:** Surrogate recovery was within control limits and no analytes were detected in the method blank. LCS values were within method-specific control limits. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for sample SB7 were all within control limits and all relative percent differences were less than 30%.

#### **Lab Report 225741 (04/22/2004): Metals, Hydrocarbons**

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**Metals:** Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits. No analytes were detected in the method blank except for calcium, however, sample concentrations were greater than ten times the level detected in the method blanks. LCS values were within control limits.

**Hydrocarbons:** The method blanks were below the reporting limits for DRO and GRO and surrogate recoveries were within control limits. LCS values were within method-specific control limits.

### Lab Report 225738 (04/23/2004): Metals, PCBs, and Semivolatile Organics,

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**Metals:** Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits. No analytes were detected in the method blank except for iron, however, sample concentrations were greater than ten times the level detected in the method blank. The relative percent differences for the duplicate analyses for sample 112 SS 27 (SHALLOW) were within 20 percent, except for lead (22.6%). LCS values were within control limits.

Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for sample 112 SS 27 (SHALLOW) were outside control limits for antimony (34%), arsenic (56%), lead (-6%), and potassium (141%); MSD recoveries were outside control limits for antimony (32%), lead (-17%) and potassium (134%). The relative percent difference between the MS and the MSD was within 20 percent except for arsenic (68.2%), iron (82.2%), and manganese (46.9%).

Serial dilution analysis was within control limits except for aluminum, calcium, chromium, iron, lead, magnesium, manganese, nickel, and zinc.

PCBs: No Aroclors were detected in the method blanks and all surrogate recoveries were within control limits except for TCX (14%) and DCB (15%) in sample PCB WIPE TUNNEL 104F. The sample was reanalyzed with similar results. Percent recoveries in the LCS/LCD were all within control limits with relative percent differences of less than 30 percent. Matrix spike (MS) recoveries for sample 112 SS 30 (SHALLOW) were outside control limits for Aroclor 1260 (139%). Matrix spike duplicate (MSD) recoveries were within control limits, however, the relative percent difference for Aroclor 1260 was 49%. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines.

**Hydrocarbons:** The method blanks were below the reporting limits for DRO and GRO and surrogate recoveries were within control limits. LCS values were within method-specific control limits. Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits.

**Semivolatile Organics:** All surrogate recoveries were within control limits and no analytes were detected in the method blank. The percent recoveries in the LCS were within control limits.

### Lab Report 225739 (04/23/2004): Metals, PCBs, and Semivolatile Organics,

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**Metals:** Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits. No analytes were detected in the method blanks. Percent recoveries within the LCS were within control limits of 80% - 120%. Duplicate analyses for sample 112 SS 39 (SHALLOW) were within the required relative percent difference. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries were conducted for samples 112 SS 39 (SHALLOW) and 112 SAMPLE 47 REMELT ROOM. Both were within control limits except for lead (MS 47%, MSD 151%). Relative percent differences of greater than 20% were experienced for lead (105.1%). Serial dilution analysis was within control limits for sample 112 SS 39 (SHALLOW).

**PCBs:** No Aroclors were detected in the method blanks. All surrogate recoveries were within control limits except for DCB (133%) in sample 112 SS 36 (SHALLOW). Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines on both columns. Percent recoveries in the LCS/LCD were within control limits with relative percent differences of less than 30 percent.

Semivolatile Organics: All surrogate recoveries were within control limits and no analytes were detected in the method blank. The percent recoveries in the LCS were within control limits. There were several percent recoveries in the MS/MSD that were outside control limits for sample 102D S-3 (DEEP). Those analytes outside the MS control limits include: 4,6-Dinitro-2-methylphenol (65%) and Benzidine (6%). Those outside the MSD control limits include: 1,3-Dichlorobenzene (40%), 1,4-Dichlorobenzene (43%), 1,2-Dichlorobenzene (47%), Hexachloroethane (40%), 1,2,4-Trichlorobenzene (52%), Hexachlorobutadiene (46%), and Benzidine (7%). All relative percent differences between the MS and MSD were less than 20 percent.

#### **Lab Report 225740 (04/26/2004): Metals and PCBs**

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**Metals:** Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits. No analytes were detected in the method blank except for calcium; however, it was detected in the samples at concentrations greater than ten times the level detected in the method blank. Percent recoveries within the LCS were within control limits of 80% - 120%. Duplicate analyses were within the

required relative percent difference (20%) except for iron (22.2%) in sample 112 VAULT 3 SED.SAMPLE and lead (50.4%) in sample 112 SS 13 (SHALLOW). Matrix spike (MS) and matrix spike duplicate (MSD) recoveries were conducted for sample 112 VAULT 3 SED.SAMPLE and were within control limits except for calcium (MS 183%) and magnesium (MSD 128%). Relative percent differences of greater than 20% were experienced for aluminum, calcium, and iron.

**PCBs:** No Aroclors were detected in the method blanks and all surrogate recoveries were within control limits. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines on both columns. Percent recoveries in the LCS were within control limits. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries were conducted for sample 112 SS 17 (DEEP). MSD recoveries were outside control limits for Aroclor 1016 (62%). Relative percent differences were within 30 percent.

#### Lab Report 228707 (08/05/2004): Metals and PCBs

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**Metals:** Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits. No analytes were detected in the method blanks. Duplicate analyses were within the required relative percent difference (20%) except for copper (23.4%) and lead (51.3%). Percent recoveries within the LCS were within control limits of 80% - 120%. Matrix spike (MS) recoveries were outside control limits for antimony and lead in sample 112SS101; MSD recoveries were outside control limits for antimony, copper, and lead. Except for antimony, the relative percent difference between the MS and the MSD were outside the 20 percent control limits.

**PCBs:** No Aroclors were detected in the method blanks and all surrogate recoveries were within control limits. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines on both columns. Percent recoveries in the LCS were within control limits.

#### Lab Report 230049 (09/23/2004): Metals

Samples received by the laboratory were extracted and analyzed within applicable holding times. Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits. No analytes were detected in the method blanks. Percent recoveries within the LCS were within control limits of 80% - 120%. Matrix spike (MS) and MSD recoveries were outside control limits for antimony in sample 112SS201. The relative percent difference between the MS and the MSD were within the 20 percent control limits. Duplicate analyses conducted on sample 112SS201 were within control limits. Serial dilution analyses conducted on sample112SS201 were within control limits.

### Lab Report 233070 (01/12/2005): Semivolatile Organics

Samples received by the laboratory were extracted and analyzed within applicable holding times. No analytes were detected in the method blank. All surrogate recoveries were within control limits except for the sample 112SS304 which had a recovery of 123% for 2-Fluoroiphenyl. The percent recoveries in the LCS/LCD were within control limits with the exception of Benzidine (LCS 0%, LCD 1%) and 4,6-Dinitro-2-methylphenol (LCS 60%, LCD 65%). All relative percent differences were less than 20 percent.

There were numerous percent recoveries in the MS/MSD that were outside control limits for sample 112SS304. Those analytes outside the MS control limits include: 2-Chlorophenol, Benzoic Acid, 2,4-Dichlorophenol, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, Hexachlorocyclopentadiene, 2-Chloronaphthalene, 4-Chloro-3-methylphenol,2,6-Dinitrotoluene, Dimethyl phthalate, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 4-Nitrophenol, 4-Bromophenyl phenyl ether, Hexachlorobenzene, Diethyl phthalate, 4-Chlrorophenyl phenyl ether, Pentachlorophenol, n-Nitrosodiphenylamine, 4,6-Dinitro-2-methylphenol, Phenanthrene, Carbazole, Benzidine, Fluoranthene, Butyl benzyl phthalate, Benzo(a)anthracene, Benzo(b)fluoranthene, and Benzo(a)pyrene. Those outside the MSD control limits include: 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 2,2-oxybis (1-chloropropane), Hexachloroethane, 2-Nitroanaline, 4-Bromophenyl phenyl ether, Hexachlorobenzene, Phenanthrene, Benzidine, Pyrene, Ideno(1,2,3-cd)pyrene, and Benzo(ghi)perylene. Only 11 of the 67 analytes had MS/MSD relative percent differences of less than 20 percent.

#### Lab Report 248531 (09/21/2006): Mercury, PCBs, and Hydrocarbons

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**Mercury:** Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits. Mercury was not detected in the method blanks. Percent recoveries within the LCS were within control limits of 80% - 120%.

**PCBs:** No Aroclors were detected in the method blanks and all surrogate recoveries were within control limits, except for sample SB1115-1 with a 145% recovery of DBC. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines on both columns. Percent recoveries in the LCS were within control limits.

**Hydrocarbons:** The method blanks were below the reporting limits for DRO and GRO and surrogate recoveries were within control limits. LCS values were within method-specific control limits. DRO Matrix spike (MS) and matrix spike duplicate (MSD) recoveries were conducted for sample SB1185-2 and were outside control limits with a relative percent difference of greater than 30%. MS/MSD analyses were not conducted for GRO.

#### **Lab Report 248554 (09/25/2006): PCBs and Hydrocarbons**

Samples received by the laboratory were extracted and analyzed within applicable holding times.

PCBs: No Aroclors were detected in the method blanks and all surrogate recoveries were within control limits, except for sample SB1265-4 with a 56% recovery of DBC, sample SB1295-1 with a DBC recovery of 140%, and sample SB1265-1, which did not allow recovery due to dilution. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines on both columns. Percent recoveries in the LCS/LCD were within control limits with a relative percent difference of less than 20 percent. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries were conducted for sample SB1315-1; recoveries were within control limits and relative percent differences were within 30 percent.

**Hydrocarbons:** The method blanks were below the reporting limits for DRO and GRO. All surrogate recoveries were within control limits, except for sample SB118 with a 41% recovery of o-Terphenyl (DRO) and sample SB1265-4, which did not allow recovery due to dilution (DRO). LCS/LCD values for both DRO and GRO were within method-specific control limits with a relative percent difference of less than 20 percent.

### Lab Report 248582 (09/25/2006): PCBs and Hydrocarbons

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**PCBs:** No Aroclors were detected in the method blanks and all surrogate recoveries were within control limits. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines on both columns. Percent recoveries in the LCS/LCD were within control limits with a relative percent difference of less than 20 percent.

**Hydrocarbons:** The method blanks were below the reporting limits for DRO and GRO. All surrogate recoveries were within control limits. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines. LCS/LCD values for DRO and LCS values for GRO were within method-specific control limits with a relative percent difference of less than 20 percent.

#### Lab Report 248821 (10/06/2006): PCBs, Hydrocarbons

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**PCBs:** No Aroclors were detected in the method blanks and all surrogate recoveries were within control limits. Percent recoveries in the LCS/LCD were within control limits with a relative percent difference of less than 20 percent.

**Hydrocarbons:** The method blanks were below the reporting limits for DRO. All surrogate recoveries were within control limits except for sample 108BLSSS1 (including MS/MSD for this sample), which did not allow recovery due to dilution. LCS/LCD values for DRO were within method-specific control limits with a relative percent difference of less than 20 percent. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries were conducted for sample 108BLSSS1; recoveries were not within control limits (0%) due to dilution.

### Lab Report 249132 (10/27/2006): Metals, PCBs, Explosives, Semivolatile Organics

Samples received by the laboratory were extracted and analyzed within applicable holding times.

**Metals:** Initial and continuing calibration verification percent recoveries as reported were within method-specific control limits. No analytes were detected in the method blanks. Percent recoveries within the LCS were within control limits. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries for mercury (sample 102csss104) were all within control limits, however, the relative percent difference was greater than 20 percent (21.1%). The method duplicate analysis for mercury was within the required relative percent difference of 20 percent.

**PCBs:** No Aroclors were detected in the method blanks and all surrogate recoveries were within control limits. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines on both columns. Percent recoveries in the LCS and LCD were all within control limits and the relative percent differences were less than 30 percent.

**Explosives:** Surrogate recovery was within control limits and no analytes were detected in the method blank. Initial and continuing calibration verification percent recoveries as reported were within method-specific guidelines. All percent recoveries in the LCS were within control limits.

Semivolatile Organics: No analytes were detected in the method blank. All surrogate recoveries were within control limits except for the LCS sample (Nitrobenzene-d5), sample 102csss105 (Nitrobenzene-d5), and sample 102csss106 (Terphenyl-d14). Additionally, sample 102csss104 was diluted so none of the surrogates were recovered. The percent recoveries in the LCS were within control limits with the exception of Naphthalene (43%). There were numerous percent recoveries in the MS/MSD that were outside control limits for sample 102csss103 including Acenapthene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene,

Benzo(a)pyrene, Ideno(1,2,3-cd)pyrene, and Benzo(ghi)perylene. Of these, only Phenanthrene (44%) had a relative percent difference greater than 30 percent.

### **Lab Report 249639 (12/06/2006): Hydrocarbons**

Samples received by the laboratory were extracted and analyzed within applicable holding times. The method blanks were below the reporting limits for DRO. All surrogate recoveries were within control limits. LCS/LCD values for DRO were within method-specific control limits with a relative percent difference of less than 20 percent.

Appendices SCS ENGINEERS

# APPENDIX I LABORATORY ANALYTICAL REPORTS



STL Chicago

# SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 211927

Prepared For:

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

Project: GSA - SLOP - Investigation

Attention: David Brewer

Date: 09/26/2002

(b) (6)

Signature

Name: Richard C. Wright

Title: Project Manager

E-Mail: rwright@stl-inc.com

9/26/02

Date

STL Chicago

2417 Bond Street

University Park, IL 60466

PHONE: (708) 534-5200 FAX..: (708) 534-5211

### STL Chicago Wet Chemistry Case Narrative

Client:

SCS Engineers, Inc.

Job #:

211927

Date Rec'd:

09/11/02

- 1. This narrative covers the analysis of the samples in the above Job # for cyanide and phosphorus by the methods cited on the Laboratory Test Results pages.
- Refer to the Laboratory Chronicle Page for dates of sampling, receipt, and analysis. 2.
- 3. The calibration curves and the initial and continuing verification standards and blanks met acceptance criteria.
- 4. The method blanks were less than the reporting limits.
- 5. The LCS recoveries were within acceptance limits.
- 6. Duplicate phosphorus matrix spikes were done on sample 211927-1. Both recoveries were biased low, at 67% and 69%.

(b) (6)

Diane L. Harper

Wet Chemistry Section Manager

9-26-02 Date

## Severn Trent Laboratories - Chicago METALS CASE NARRATIVE

Client: SCS Engineers, Inc.

Date Rec'd: 09/11/02

Project: GSA – SLOP STL Job #: 211927

1. This narrative covers the Metals analysis of samples in the above Job #211927.

Method Ref: USEPA SW-846

- 2. All analyses were performed within the required holding times.
- 3. All Initial and Continuing Calibration Verification (ICV/CCV's) were within control limits.
- 4. All Initial and Continuing Calibration Blanks (ICB/CCB's) were within control limits except for: ICP Batch 63630 CCB (Initial) Ca 112.8 ug/L Samples 1-4 were bracketed. Calcium in the samples were greater than 10X the CCB concentration. Therefore, re analysis was not performed.
- 5. All ICP Interference Check Samples (ICSA and ICSAB) were within control limits.
- 6. All Laboratory Control Sample (LCS) recoveries were within the 80-120% control limits.
- 7. All Method blank concentrations were less than the Reporting Limits (RL).
- 8. Matrix QC was performed on sample 1.

All Serial dilution analysis were within control limits except for Al,BA,Ca,Cr,Co,Fe,Pb,Mg,Mn, Ni,V & Zn.

All Matrix spike (MS/MSD) recoveries were within the 75-125% control limits (except- control limits are not applicable when the sample concentration exceed the spike added concentration by a factor of 4 or more) except for Sb,Ba,Pb,K (MS/MSD) & ;Cr,Zn (MSD).

All Duplicate results were within the 20% RPD control limits for sample concentration greater than 4X the RL or  $+\$  the RL for sample concentration less than 4X the RL except for Ba, & Ca..

(b) (6)

Mani S. Iyer Metals Section Manager Date Date

#### Severn Trent Laboratories Chicago GC/MS Case Narrative

SCS Engineers GSA - SLOP

Job Number: 211927

VOA DATA:

- 1. The sample preparation and analyses were performed within the recommended hold times from the date of collection.
- 2. The Method Blank and Extraction Blanks had all target compounds below the reporting limits.
- 3. All of the spike recoveries for the control compounds were within the in-house generated QC limits in the LCS samples.
- 4. Matrix Spike/Matrix Spike Duplicate analyses were not performed on this sample set.
- 5. All volatile samples had surrogate recoveries within the in-house generated QC limits.
- 6. The soil samples were prepared using Method 5035 and analyzed following SW846 Method 8260B/8000B. All calibration criteria are met per method or SOP (for minimum R values for certain compounds). The low point in the initial calibration verifies the base reporting limits. The target compounds were quantitated using the initial calibration.
- 7. All internal standard areas and retention times were within SOP acceptance limits as compared to the corresponding calibration verification standard.
- 8. The soil samples were analyzed using the low-level soil method. The results and reporting limits were adjusted to account for the sample weights the analytical procedure and on a dry weight basis.
- 9. The soil samples underwent an effervescence test. Samples 1, 3 and 5 effervesced when mixed with preservative. The soil samples were prepared in water and immediately frozen.

(b) (6)	9/03/2
	4/23/2
Gary Rynkar	Date
GC/MS Section Manager	

#### **Severn Trent Services - Chicago** GC/MS BNA Case Narrative

SCS Engineers, Inc./GSA-SLOP

JOB Number: 211927

BNA DATA:

- 1. All extractions and analyses were performed within recommended hold times.
- 2. The MB (Method Blank) had all analytes below the CRQL (Contract Required Quantitation Limits).
- 3. A BNA LCS/LCD (Laboratory Control Sample/Laboratory Control Duplicate) spike solution was used (100 µg/mL) and 1.0 mL was spiked in the LCS/LCD samples (prep batches 62700 & 63295). In-house generated QC limits and the 11 method control compounds were used for QC evaluation. All control spike recoveries and RPD values were within the QC limits in the LCS/LCD samples.
- 4. A MS/MSD (Matrix Spike/Matrix Spike Duplicate) analysis was performed on sample -3. A BNA LCS spike solution was used (100 µg/mL) and 1.0 mL was spiked in the MS/MSD. In-house generated QC limits and the 11 method control compounds were used for QC evaluation. The MS/MSD had one and two spike recoveries, respectively, outside the QC limits and three RPD values above the QC limit.
- 5. A BNA surrogate spike solution (Acids at 150 μg/mL & Base-Neutrals at 100 μg/mL) was used and 0.5 mL was spiked in all samples. All samples had surrogate recoveries within the in-house generated QC limits. The secondary dilution for sample -3 (sample -3D1) had all surrogate recoveries reported as "D".
- 6. All analyses were performed following USEPA SW846 8270C protocol. All samples had internal standard areas and retention times within the SOP acceptance limits as compared to the corresponding calibration verification.
- 7. The samples were extracted and analyzed as low-level soils, therefore, normal detection limits apply. Sample -3 required a 4x secondary dilution. Sample -3 results were adjusted for the dilution and all results were reported on a dry-weight basis.

(b) (6) Gary Rynkar GC/MS Section Manager

#### STL Chicago PCB Case Narrative

SCS Engineers, Inc.

GSA – SLOP - Investigation

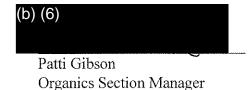
Job #: 211927-1 through 7

**PCBs** 

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

ID#	<u>INSTRUMENT</u>	COLUMN TYPE	DETECTOR
07	Varian 3400	Rtx-5	Electron Capture
08	Varian 3400	Rtx-Clp2	Electron Capture

- 2. These soil samples were extracted based on SW846 method 3550. The extracts were analyzed for PCBs based on SW846 method 8082. All extracts received a GPC cleanup, 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.
- 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 performed on sample 211927-1 (105-1). All matrix spike and matrix spike duplicate recoveries were within statistical control limits. All RPDs were <20%.
- 9. All initial and continuing standard calibrations associated with these samples were in control. However, a slight retention time shift was observed and taken into account during data review.
- 10. Target compounds were not detected in the primary analysis. Therefore, a second column confirmation was not required.



9/25/02 Date

#### STL Chicago Explosives Case Narrative

SCS Engineers, Inc.
GSA – SLOP - Investigation
Job #: 211927-1 through 7
Explosives

1. STL Chicago uses the following HPLC systems for analysis of Nitroaromatics and Nitramines:

ID#	INSTRUMENT	COLUMN TYPE	DETECTOR
43	Agilent 1100	C-18	UV - 254nm
44	Agilent 1100	CN	UV - 254nm

- 2. These samples were extracted and analyzed for explosives based on SW846 method 8330.
- 3. All required holding times were met for the extraction and analysis.
- 4. The method blank was below the reporting limit for all target compounds.
- 5. The surrogate compound used for this analysis was 1,2-Dinitrobenzene (1,2-DNB). All surrogate recoveries were within statistical control limits.
- 6. All blank spike recoveries were within statistical control limits.
- 7. A matrix spike and a matrix spike duplicate were performed on sample 211927-1 (105-1). All matrix spike and matrix spike duplicate recoveries were within statistical control limits except 4-Amino-2,6-Dinitrotoluene, which had recoveries of 121% and 122%, respectively. All RPDs were <30%.
- 8. All initial and continuing standard calibrations associated with these samples were in control on the primary column (C18).
- 10. Target compounds were not detected in the primary analysis. Therefore, a second column confirmation was not required.



Patti Gibson Organics Section Manager 9/25/02 Date



#### STL Chicago

SAMPLE INFORMATION Date: 09/26/2002

Job Number.: 211927

Customer...: SCS Engineers, Inc.

Attn....: David Brewer

Project Number..... 20002601

Customer Project ID...: GSA - SLOP Project Description...: GSA - SLOP - Investigation

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
211927-1	105-1	Soil	09/10/2002	15:30	09/11/2002	08:45
211927-2	105-2	Soil	09/10/2002	15:40	09/11/2002	08:45
211927-3	105-3	Soil	09/10/2002	16:10	09/11/2002	08:45
211927-4	105-4	Soil	09/10/2002	16:50	09/11/2002	08:45
211927-5	105-5	Soil	09/10/2002	17:30	09/11/2002	08:45
211927-6	101-1	Soil	09/10/2002	18:25	09/11/2002	08:45
211927-7	101-2	Soil	09/10/2002	18:30	09/11/2002	08:45
211927-8	101-3	Soil	09/10/2002	18:40	09/11/2002	08:45
211927-9	101-4	Soil	09/10/2002	18:50	09/11/2002	08:45
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4500PE	Phosphorous, All Forms Phosphorous, Total as P, Solid*	510		9.6	26	10.00	mg/Kg	63806	09/25/02 1617	Z CVE
8330	Explosives by 8330 (HPLC) HMX, Solid RDX, Solid 1,3,5-Trinitrobenzene, Solid 1,3-Dinitrobenzene, Solid Nitrobenzene, Solid 2,4,6-TNT, Solid Tetryl, Solid 2,4-Dinitrotoluene, Solid 2,6-Dinitrotoluene, Solid	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		110 59 18 18 22 34 43 48	250 100 100 100 200 200 200 200	1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	63654 63654 63654 63654 63654 63654 63654 63654 63654	09/17/02 2330 09/17/02 2330 09/17/02 2330 09/17/02 2330 09/17/02 2330 09/17/02 2330 09/17/02 2330	san con con con con con con con con con co

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	Job Number: 211927	LABORATOR	¥ ⊢ ES	T RESUL	(N)		Date: 0	Date: 09/26/2002	**************************************	
CUSTOMER: SCS	Engineers, Inc.	PROJECT	: GSA - SLOP				ATTN	David Bre	Brewer	
Customer Date Sar Time San Sample P	Customer Sample ID: 105-1 Date Sampled: 09/10/2002 Time Sampled: 15:30 Sample Matrix: Soil		Labor Date Time	atory Sample Received Received	10: 211927-1 : 09/11/2002 : 08:45					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	a FLAGS	Q	2	DILUTION	UNITS	BATCH	DT DATE/TIME	TECH
	2-Amino-4,6-Dinitrotoluene, Solid 4-Amino-2,6-Dinitrotoluene, Solid 2-Nitrotoluene, Solid 4-Nitrotoluene, Solid 3-Nitrotoluene, Solid	9 9 9 9 9 9 9 9	ככככ	36 97 47 47	200 200 200 500 500	1.00000 1.00000 1.00000 1.00000	ug/Kg ug/Kg ug/Kg ug/Kg	63654 63654 63654 63654 63654	09/17/02 2 09/17/02 2 09/17/02 2 09/17/02 2	2330 san 2330 san 2330 san 2330 san 2330 san
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.022	80	0.0063	0.039	_	mg/Kg	63552	09/23/02 1210	10 gok
60108	Metals Analysis (ICAP Trace) Aluminum, Solid* Antimony, Solid* Arsenic, Solid* Barium, Solid* Barium, Solid* Cadmium, Solid* Cadmium, Solid* Chromium, Solid* Chromium, Solid* Chromium, Solid* Chromium, Solid* Chromium, Solid* Copalt, Solid* Iron, Solid* Magnesium, Solid* Magnesium, Solid* Nickel, Solid* Nickel, Solid* Silver, Solid* Silver, Solid* Silver, Solid*	9900 ND 5.7 140 0.28 0.28 0.28 16 18 6.1 13 14000 19 3300 360 14 1200 ND 760	ככ ש כ	1.8 0.39 0.39 0.12 0.033 0.11 1.3 0.33 0.33 0.24 0.24	15 0.76 0.76 0.30 0.38 3.8 0.38 0.76 0.76 0.76 0.76		mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630	09/23/02 1 09/23/02 1	1151 tds 1151 tds 115

Page 3

\* In Description = Dry Wgt.



CUSTOMER: SC	Job Number: 211927 SGS Engineers, Inc.	LABORATORY PROJECT:	TEST GSA - SLOP	T RESUL	8		Date:0	Date:09/26/2002 ATTN: David Br	02 Вге <b>ж</b> ег	
Custom Date Si Time Si Sample	Customer Sample ID: 105-1 Date Sampled: 09/10/2002 Time Sampled: 15:30 Sample Matrix: Soil		Labor Date Time	atory Sample Received Received	. ID: 211927-1 : 09/11/2002 : 08:45					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	a FLAGS	Jour 1	RL	DILUTION	UNITS	ватсн	DT DATE/TIME	ME TECH
	Thallium, Solid* Vanadium, Solid* Zinc, Solid*	ND 30 56	3	0.50 0.16 0.30	0.76 0.38 1.5		mg/Kg mg/Kg mg/Kg	63630 63630 63630	09/23/02 09/23/02 09/23/02	1151 tds 1151 tds 1151 tds
2	Phenol, Solid* Bis(2-chloroethyl)ether, Solid* 1,3-Dichlorobenzene, Solid* 1,4-Dichlorobenzene, Solid* 1,2-Dichlorobenzene, Solid* Benzyl alcohol, Solid*	222222	22222	97 110 110 86 100 100 100	380 380 380 380 380 380	1.00000	ug/Kg ug/Kg ug/Kg	63720 63720 63720 63720 63720 63720	09/21/02 09/21/02 09/21/02 09/21/02 09/21/02	
	2-Methylphenot (0-cresol), Solid* 2.2-oxybis (1-chloropropane), Solid* n-Nitroso-di-n-propylamine, Solid* Hexachloroethane, Solid* 4-Methylphenol (m/p-cresol), Solid* 2-Chlorophenol, Solid*			14.0 200 120 91 80	780 280 380 380 380 380	1.00000 1.00000 1.00000 1.00000	ug/kg ug/kg ug/kg ug/kg	63720 63720 63720 63720 63720	09/21/02 09/21/02 09/21/02 09/21/02 09/21/02	
	Nitrobenzene, Solid* Bis(2-chloroethoxy)methane, Solid* 1,2,4-Trichlorobenzene, Solid* Benzoic acid, Solid* Isophorone, Solid* 2,4-Dimethylphenol, Solid* Hexachlorobutadiene, Solid*			73 69 57 58 58 80 80 80	380 380 2000 380 380 380 380	1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	ug/kg ug/kg ug/kg ug/kg ug/kg	63720 63720 63720 63720 63720 63720 63720	09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02	
	<pre>2,4-Dichlorophenol, Solid* 4-Chloroaniline, Solid* 2,4,6-Trichlorophenol, Solid* 2,4,5-Trichlorophenol, Solid*</pre>	9	2222	150 79 78	380 380 380 2000	1.00000	ug/kg ug/kg ug/kg	63720 63720 63720 63720	09/21/02 09/21/02 09/21/02 09/21/02	0010 0010 0010 0010 0010 0010
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Data Sample   11   15   15   15   15   15   15   1		Job Number: 211927	LABORATORY	<u>н</u>	STRESUL	S 		Date:09	Date:09/26/2002		
Time Received: 95/11/2002   Time Received 95/11/2002   Time Received 95/11/2002   Time Received 95/11/2002   Time Received		Engineers, Inc.	PROJECT:	GSA	a0]			ATTN	David Bre	Wer	
	Customer Date Sam Time Sam Sample M			La Da	boratory Sample te Received me Received						
ND	TEST METHOD	PARAMETER/TEST DESCRIPTION	ш		104	×	DILUTION	UNITS			TECH
NE			QN.		U7[	780	1 00000	lo/Ka	63720	1	
ND		2-Methylnaphthalene, Solid*	Q.	, ,	280	380	1,00000	ug/Kg ug/Kg	63720		
ND		2-Nitroaniline, Solid*	QN	n	120	2000	1.00000	ug/Kg	63720		
MD		2-Chloronaphthalene, Solid*	Q	⇒ :	63	380	1.00000	ug/Kg	63720		
NO		4-Chloro-3-methylphenol, Solid*	2 5	<b>&gt;</b> :	\$ 8	380	1.00000	ug/Kg	63720		
NO		Z,b-Dinitrotoluene, solid*  2-Nitrophenol Solid*	2 8	<b>&gt;</b> =	5 8	280	00000	ug/kg	65/20		
ND		3-Nitroaniline, Solid*	9	> =	160	2000	1,00000	ug/Ka	63720		
ND   U   C   C   C   C   C   C   C   C   C		Dimethyl phthalate, Solid*	Q.	· >	87	380	1,00000	ug/Kg	63720		
ND		2,4-Dinitrophenol, Solid*	Q	<b>5</b>	230	2000	1.00000	ug/Kg	63720		
ND   75   J   62   380   1.00000   ug/kg   63720   09/21/02 0010		Acenaphthylene, Solid*	9	<b>¬</b>	79	380	1.00000	ug/Kg	63720		
ND		Z,4-Dinitrotoluene, Solid*		<b>ɔ</b> -	98 (	380	1.00000	ug/Kg	63720		
ND		Acenaphrhene, volida		<u>ء</u> د	70	280	1.00000	ug/Kg	65720		
** ND			2 5	5 <b>=</b>	U£7	2002	1.0000	UG/KG	02/20		
ND		Fluorene, Solid*	S		110	380	1,00000	ug/Kg	63720		
** ND U H10 380 1.00000 Ug/Kg 63720 09/21/02 0010 ND U H10 380 1.00000 Ug/Kg 63720 09/21/02 0010 ND U 100 380 1.00000 Ug/Kg 63720 09/21/02 0010 ND U 130 220 2000 1.00000 Ug/Kg 63720 09/21/02 0010 ND U 160 2000 1.00000 Ug/Kg 63720 09/21/02 0010 ND U 85 380 1.00000 Ug/Kg 63720 09/21/02 0010 ND H0 U 85 380 1.00000 Ug/Kg 63720 09/21/02 0010 ND H0 U 85 380 1.00000 Ug/Kg 63720 09/21/02 0010 ND U 84 380 1.00000 Ug/Kg 63720 09/21/02 0010 ND U 84 380 1.00000 Ug/Kg 63720 09/21/02 0010 ND U 84 380 1.00000 Ug/Kg 63720 09/21/02 0010 ND U 84 380 1.00000 Ug/Kg 63720 09/21/02 0010			S	n	160	2000	1.00000	ug/Kg	63720		
** ND U 110 380 1.00000 ug/Kg 63720 09/21/02 0010  ND U 100 220 2000 1.00000 ug/Kg 63720 09/21/02 0010  ND U 130 380 1.00000 ug/Kg 63720 09/21/02 0010  ND U 160 2000 1.00000 ug/Kg 63720 09/21/02 0010  ND U 85 380 1.00000 ug/Kg 63720 09/21/02 0010  ND U 85 380 1.00000 ug/Kg 63720 09/21/02 0010  ND U 85 380 1.00000 ug/Kg 63720 09/21/02 0010  ND U 84 380 1.00000 ug/Kg 63720 09/21/02 0010  ND U 84 380 1.00000 ug/Kg 63720 09/21/02 0010  ND U 84 380 1.00000 ug/Kg 63720 09/21/02 0010  ND U 84 380 1.00000 ug/Kg 63720 09/21/02 0010			Q	Ω	110	380	1,00000	ug/Kg	63720		
** ND U 110 380 1.00000 ug/Kg 63720 09/21/02 0010 ND U 1220 2200 1.00000 ug/Kg 63720 09/21/02 0010 ND U 130 380 1.00000 ug/Kg 63720 09/21/02 0010 ND U 160 280 1.00000 ug/Kg 63720 09/21/02 0010		Hexachlorobenzene, Solid*	2	⊃	83	380	1.00000	ug/Kg	63720		
NEW   100		Sol 1d*	2 9	<b></b> :	110	380	1.00000	ug/Kg	63720		
ND			2 9	<b>&gt;</b> :	00.	280	1.00000	ug/Kg	65720		
ND		Pentachlorophenol, Solid*	2 5	<b>=</b> :	027	2000	1.00000	ug/Kg	65720		
1000			2 5	<b>&gt;</b> =	25	380	00000	ug/kg	02720		
Solid* ND U * 2300 1.00000 ug/kg 63720 09/21/02 0010		t,o.u.n.i.ro.z.metnytpnenot, solid. bbenshtrene colid*	•	<b>3</b>	2 6	0002	20000	ug/kg	65720		
solid*  ND U * 2300 3800 1.00000 ug/Kg 63720 09/21/02 0010		Anthracene, Solid*	160			280	1,0000	19/Kg	63720		
phthalate, Solid* ND U * 84 380 1.00000 ug/kg 63720 09/21/02 0010 Solid* Ug/kg 63720 09/21/02 0010			140	,,	\$ 8	380	1.00000	ua/Ka	63720		
Solid*		Di-n-butyl phthalate, Solid*		5	84	380	1.00000	ug/Kg	63720		
			S		2300	3800	1.00000	ug/Kg	63720		
				······································							



	Job Number: 211927	LABORATORY	TES	T RESUL	() 		Date:0	Date: 09/26/2002		
CUSTOMER: SCS	Engineers, Inc.	PROJECT:	GSA - SLOP	0.0			ATTN:	David Bre	Brewer	
Custome Date Sa Time San Sample P	Customer Sample ID: 105-1 Date Sampled: 09/10/2002 Time Sampled: 15:30 Sample Matrix: Soil		Labor Date Time	Laboratory Sample ID: Date Received Time Received	ID: 211927-1 : 09/11/2002 : 08:45					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	<b>JQ</b>	<b>8</b>	DILUTION	UNITS	ВАТСН [D	DT DATE/TIME	TECH
	Fluoranthene, Solid* Pyrene, Solid* Butyl benzyl phthalate, Solid* Benzo(a)anthracene, Solid* Chrysene, Solid* 3,3-Dichlorobenzidine, Solid* Bis(2-ethylhexyl)phthalate, Solid* Bi-n-octyl phthalate, Solid* Benzo(b)fluoranthene, Solid* Benzo(b)fluoranthene, Solid* Benzo(a)pyrene, Solid* Indeno(1,2,3-cd)pyrene, Solid* Dibenzo(a,h)anthracene, Solid* Benzo(a,h)anthracene, Solid*	1400 ND 530 ND 700 ND 700 ND 580 520 520 520 520 520 6400	בר מממ ב	110 170 62 62 62 130 130 130 130 130 130	380 380 380 380 380 380 380 380 380 380	1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg	63720 63720 63720 63720 63720 63720 63720 63720 63720 63720	09/21/02 0010 09/21/02 0010	******************
8260B	Volatile Organics Dichlorodifluoromethane, Solid* Chloromethane, Solid* Chloromethane, Solid* Bromomethane, Solid* Chloroethane, Solid* Trichlorofluoromethane, Solid* 1,1-Dichloroethene, Solid* Actone, Solid* Methylene chloride, Solid* Methyl-tert-butyl-ether (MTBE), Solid* 1,1-Dichloroethane, Solid*	2222222 	*	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	444444444444	1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	63/63 18/83 18/83 18/83 18/83 18/83 18/83 18/83 18/83 18/83 18/83 18/83 18/83 18/83 18/83	63482 63482 63482 63482 63482 63482 63482 63482 63482 63482	09/19/02 1159 09/19/02 1159 09/19/02 1159 09/19/02 1159 09/19/02 1159 09/19/02 1159 09/19/02 1159 09/19/02 1159 09/19/02 1159 09/19/02 1159	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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Job Number: 211927

Date:09/26/2002

ATTN: David Brewer Laboratory Sample ID: 211927-1
Date Received.....: 09/11/2002
Time Received....: 08:45 PROJECT: GSA - SLOP Customer Sample ID: 105-1
Date Sampled....: 09/10/2002
Time Sampled....: 15:30
Sample Matrix....: Soil CUSTOMER: SCS Engineers, Inc.

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DATE/TIME	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02	09/19/02
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DILUTION	.00000	.00000	.00000	00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	1.00000	1,00000	1,00000	1,00000	,00000	1,00000	.00000	1.00000
<u> </u>	-				-	-,	-						-	-	<u></u>	<u>-</u>	<u>:</u>	-	-	<u>-</u>	-		<u>, :</u>	<u>"</u>	<u></u>		<u>.</u> .		<u>-</u>
	9-+	4.6	4.6	9-4	9-4	4.6	9.4	9.4	4.6	4.6	4.6	9-4	4.6	4.6	9-+	9.4	9.4	9.4	4.6	4.6	4.6	4.6	4.6	4.6	4.6	<b>9.</b> 4	4.6	2,5	9-+
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	2	_	٥.	91	22	26	13	92	61	53	54	88	63	62	23	ဆ	92	22	65	25	85	9	63	2	84	29	0	ο.	35
MOL.	1	-	3.9	0.9	0.57	0.56	0.73	0,76	0.61	0.53	0.54	0.88	0.63	<u>.</u> ۵	0.73	2.8	o	0.77	0.65	0.62	ö	Ë	ŏ	Ö	0.84	0.67		1.9	0.85
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a FLAGS	<b>3</b>	<b>_</b>	⊃	_		_	_		_	<b>-</b>			<b></b>	<b>5</b>		_	_	_	_	$\neg$	_	_	*		=	*	=	_	ם
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SAMPI	2	S	9	2	S	g	2	2	2	9	S	9	9	2	2	9	문	2	2	2	2	9	身	윷	2	2	2	2	9
కే																*													
- - -		¥													* *	4-Methyl-2-pentanone (MIBK), Solid*								* *		id*			
DESC	*o	cis-1,2-Dichloroethene, Solid*		*		[.;o <u>*</u>	*o	š		*		<u>*</u>		ě	cis-1,3-Dichloropropene, Solid*	ς, Ω		trans-1,3-Dichloropropene, Solid*	<u>*</u>		*5		, d	1,2-Dibromoethane (EDB), Solid*		1,1,1,2-Tetrachloroethane, Solid*			
PARAMETER/TEST DESCRIPTION	Soli	ള്	<u>*</u>	olid		So.	Soli	Sol		ol id	<u>*</u>	Soli	*	Sol	Je (	(MIB		pene	So.	**************************************	Soli		Sol	8		hane			
ER/T	ne,	then	Sol	e, s	*	hane	ne.	ide,		e, s	Soli	je,	0 1d	ane,	rope	one		obro	hane	So ':	ne,	<u>*</u>	ane,	00	*D! ]	roet	ŏ	*	
SAME.	orope	loroe	Æ,	ethar	solic	proet	prope	hlor	*	ethar	ene,	ropa	ē, S	ometh	oro	entar	*5	hlor	roet	thene	Propa	sol id	ane th	chane	S	ach to	So	Soli	*
PA	loro	Dich	ne C	OFOR	Ę.	등	Loro	etra	Sol	loro	oeth(	loro	ethar	hlor	Dichl	-2-p(	Sol	3-Di(		oroet	lorop	e,	hlor	omoet	nzene	Tetra	zene,	nes,	So,
	2,2-Dichloropropane, Solid*	۲,	2-Butanone (MEK), Solid*	Bromochloromethane, Solid*	rofo	1,1,1-Trichloroethane, Solid*	Dich	Carbon tetrachloride, Solid*	Benzene, Solid*	,2-Dichloroethane, Solid*	Trichloroethene, Solid*	1,2-Dichloropropane, Solid*	Dibromomethane, Solid*	Bromodichloromethane, Solid*	1,3-	thy	Toluene, Solid*		1,1,2-Trichloroethane, Solid*	Tetrachloroethene, Solid*	i,3-Dichloropropane, Solid*	2-Hexanone, Solid*	Dibromochloromethane, Solid*	Dibr	robe	7.7	Ethylbenzene, Solid*	m&p-Xylenes, Solid*	o-Xylene, Solid*
	2,2-	cis-	2-8r	Bron	Chlo	7,1	-,-	Carb	Benz	7.5	Tric	1,2-	Dibr	Brom	cis-	4-Me	Tota	tran	[,	Tetr	1,7	2-He	Dibr	7,	양		Ethy	m&p-	٠-× ۲
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TEST METHOD																													
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\* In Description = Dry Wgt.



	Job Number: 211927	ABORATORY	TEST RE	SULTS		Date:0	Date:09/26/2002			
CUSTOMER: SCS Engineers,	Engineers, Inc.	PROJECT:	GSA - SLOP			ATTN:	David Bre	Вгемег		
Custome Date Sar Time Sar Sample N	Customer Sample ID: 105-1 Date Sampled: 09/10/2002 Time Sampled: 15:30 Sample Matrix: Soil		Laboratory Sample ID: Date Received: Time Received:	atory Sample ID: 211927-1 Received: 09/11/2002 Received: 08:45						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT Q	FLAGS MDL	R	DILUTION	UNITS	ВАТСН [	DT DATE/TIME		TECH
	Styrene, Solid* Bromoform, Solid* Bromobenzene, Solid* Bromobenzene, Solid* 1,1,2,2-Tetrachloroethane, Solid* 1,2,3-Trichloropropane, Solid* n-Propylbenzene, Solid* 1,3,5-Trimethylbenzene, Solid* 4-Chlorotoluene, Solid* 4-Chlorotoluene, Solid* 1,2,4-Trimethylbenzene, Solid* p-Isopropyltoluene, Solid* n-Butylbenzene, Solid* n-Butylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* 1,2,5-Trichlorobenzene, Solid* 1,2,5-Trichlorobenzene, Solid* 1,2,5-Trichlorobenzene, Solid*	222222222222222 2222222222222222222222	*	0.92 0.65 0.65 0.059 0.059 0.073 0.77 0.77 0.77 0.77 0.77 0.77 0.7	1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	03/kg 03	63482 63482 63482 63482 63482 63482 63482 63482 63482 63482 63482 63482 63482 63482 63482 63482 63482 63482	09/19/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02	25277777777777777777777777777777777777	
	* In Description = Dry Wgt,		Page &							

\* In Description = Dry Wgt.



ND U 34 1.0000 ug/kg 63654	10 10 10 ( 1111 ) ( 1	11d 1.00000 ug/kg 63654 09/18/02	N	TEST METHOD PARAMETER/TEST DESCRIPTION SAMPLE RESULT   G FLAGS MDL RL DILUTION UNITS BATCH   DT DATE/TIME	LABORATORY TEST RESULTS Job Number: 211927	DATE/TIME 9/12/02 0008 9/12/02 00041 9/25/02 0041 9/25/02 0041 9/25/02 0041 9/25/02 0041 9/25/02 0144 9/25/02 0144 9/25/02 0144 9/25/02 0144 9/25/02 0144 9/18/02 0245 9/18/02 0245 9/18/02 0245 9/18/02 0245 9/18/02 0245 9/18/02 0245 9/18/02 0245	62415 62415 62415 63718 63718 63718 63718 63718 63718 63718 63718 6364 63654 63654 63654	### ### ##############################	1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	RL 0.10 20 20 20 20 20 20 20 20 20 20 20 20 20	MDL 0.10 3.6 3.6 7.6 3.0 3.0 110 18 18 18	Tim Tim		81 81 19		**Engineers, Inc.  ### Sample ID: 105-2  ### ID: 09/10/2002  ### ID: 09/10/2002  ### ID: 09/10/2002  ### ID: 09/10/2002  ### Matrix: \$0id  ### Solids Determination  ### Solids Determination  ### Solids Determination  ### Solids Solid*  ### Arcclor 1221, \$0lid*  ### Arcclor 1222, \$0lid*  ### Arcclor 1242, \$0lid*  #### Arcclor 1242, \$0lid*  #### Arcclor 1242, \$0lid*  #### Arcclor 1242, \$0lid*  #### Arcclor 1260, \$0lid*  #### Solid*  #### Cyanide (Colorimetric)  Cyanide (Colorimetric)  Cyanide (Colorimetric)  Cyanide, Total, \$0lid*  #### Solid  #### Solid  1,3,5-Trinitrobenzene, \$0lid  1,3-Dinitrobenzene, \$0lid  #### Solid  ###################################	Customer Sar Time Sar Sample P
ND U 43 200 1.00000 ug/Kg 63654	ND U		20/01/40 \$5000 BV/Bn 0000011 001 22 0	% solids betermination         % solids betermination         81.0         0.10         0.10         1         % 62415         09/12/02           % woisture, Solid         % woisture, Solid         % oid         % oid         % oid         % oid         % oid         % oid           Pos Analysis         Solid*         Woisture, Solid*         ND         U         3.5         20         1.00000         Us/Kg 63718         09/12/02           Arccion 122/, Solid*         ND         U         3.6         20         1.00000         Us/Kg 63718         09/12/02           Arccion 124/, Solid*         ND         U         7.6         20         1.00000         Us/Kg 63718         09/12/02           Arccion 124/, Solid*         ND         U         3.6         20         1.00000         Us/Kg 63718         09/12/02           Arccion 124/, Solid*         ND         U         3.3         20         1.00000         Us/Kg 63718         09/12/02           Arccion 126/, Solid*         ND         U         3.3         20         1.00000         Us/Kg 63718         09/12/02           Arccion 126/, Solid*         ND         U         3.3         20         1.00000         Us/Kg 63718         09/18/02	Caregineers   Inc.   Caregineers	0245	63654	ug/kg ug/kg	1.00000	382	43 4		3 D E			[2,4,0-INI, Solid  Tetryl, Solid  7 4-Dimitrotaliane Solid	
Solid ND ND 10 35 100 11,00000 ug/Kg 63654	20,00 Louding 1,000 Ug/ 18,002 Louding 1,000 Ug/ 18,002	ND U 34 100 1.00000 ug/Kg 63654 09/18/02 U 43 200 1.00000 ug/Kg 63654 09/18/02	ND U 34 100 1.00000 ug/Kg 63654 09/18/02 U 43 200 1.00000 ug/Kg 63654 09/18/02	% Solids Determination         % Solids Determination         81.0         0.10         1         % 62415         09/12/02           % Solids, Solids Wolfers, Solids Wolfers, Solids Wolfers, Solids Solids Wolfers, Wolfers, Wolfers, Wolfers, Wolfers, Wolfers, Wolf Wolfers, Wolfers, Wolfers, Wolfers, Wolfers, Wolfers, Wolfers,	SES Engineers, Inc.   PROJECT: GSA - SLOP	09/18/02 0245 san	63654	ug/Kg ug/Ka	1.00000	100 200	35		<b>)</b> )	2 2		2,4-Dinitrotoluene, Solid 2,6-Dinitrotoluene, Solid	
lid ND U 32 100 1.00000 ug/kg 63654 ND U 34 1.00000 ug/kg 63654	1 ND U 22 100 1.00000 ug/Kg 63654 09/18/02	TO TO TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE TO	All Accept by billion and a contract of the co	% Solids betermination         % Solids betermination         81.0         0.10         1         % 62415         09/12/02           % Solids, Solid         % Solids, Solid         % Solids         0.10         0.10         1         % 62415         09/12/02           PCB Analysis         Arctor 1016         0.10         0.10         1         % 62415         09/12/02           PCB Analysis         Arctor 1016         0.10         1         % 62415         09/12/02           Arctor 1221, Solid*         ND         U         3.5         20         1.00000         Ug/Kg         63718         09/12/02           Arctor 1222, Solid*         ND         U         3.6         2.0         1.00000         Ug/Kg         63718         09/12/02           Arctor 1248, Solid*         ND         U         3.6         2.0         1.00000         Ug/Kg         63718         09/12/02           Arctor 1248, Solid*         ND         U         3.3         2.0         1.00000         Ug/Kg         63718         09/18/02           Arctor 1248, Solid*         ND         U         3.3         2.0         1.00000         Ug/Kg         63718         09/18/02           Arctor 1248, Solid*         ND         <	### Septiments, Inc.    Cambridge   District   Cambridge   Cambrid		43654		1.00000	300	- 82		ב נ	2 2		1,3-Dinitrobenzene, Solid	
ne, Solid ND U 18 100 1.00000 ug/kg 63654 lid ND U 34 100 1.00000 ug/kg 63654 lid ND U 34 100 1.00000 ug/kg 63654	ND U 120 1.00000 ug/Kg 63654 09/18/02 lid ND U 22 100 1.00000 ug/Kg 63654 09/18/02	ND U 1.00000 ug/Kg 63654 09/18/02	2/2/2/ 1/3/2/ 2/2/2/ 2/2/2/ 2/2/2/ 2/2/2/2/2/2/2	% Solids Determination         % Solids Determination         81.0         0.10         1         % 62415         09/12/02           % Solids, Solid         % Solids         81.0         0.10         0.10         1         % 62415         09/12/02           R Moisture, Solid         Maclor 122         No         0.10         0.10         1         % 62415         09/12/02           Arcelor 1232, Solid*         ND         U         3.5         20         1.00000         ug/Kg         63718         09/25/02           Arcelor 1232, Solid*         ND         U         3.6         20         1.00000         ug/Kg         63718         09/25/02           Arcelor 1242, Solid*         ND         U         3.6         20         1.00000         ug/Kg         63718         09/25/02           Arcelor 1254, Solid*         ND         U         3.3         20         1.00000         ug/Kg         63718         09/25/02           Arcelor 1254, Solid*         ND         U         3.3         20         1.0000         ug/Kg         63718         09/25/02           Arcelor 1254, Solid*         ND         U         3.0         20         1.0000         ug/Kg         63718         09/25/02	Commercial Commercia		43454	ug/kg IIa/Ka	1.00000	100	27		ככ	S S		1.3.5-Trinitrobenzene, Solid	
Trinitrobenzene, Solid WD U 17 100 1.00000 ug/Kg 63554 initrobenzene, Solid WD U 22 100 1.00000 ug/Kg 63554 wb benzene, Solid wb U 34 100 1.00000 ug/Kg 63554 wb wb U 34 100 1.00000 ug/Kg 63554 wb wb U 34 100 1.00000 ug/Kg 63554 wb wb WD U 34 100 1.00000 ug/Kg 63554 wb wb WD U 34 100 1.00000 ug/Kg 63554 wb wb WD U 34 100 1.00000 wg/Kg 63554 wb wb WD U 34 100 1.00000 wg/Kg 63554 wb wb WD	Trinitrobenzene, Solid ND U 17 100 1.00000 ug/Kg 63654 09/18/02 benzene, Solid ND U 22 100 1.00000 ug/Kg 63654 09/18/02	Trinitrobenzene, Solid ND U 18 100 1.00000 ug/Kg 63654 09/18/02 U 18 100 1.00000 ug/Kg 63654 09/18/02	17 100 1.00000 ug/Kg 63654 09/18/02 initrohenzene Solid MA U 19 100 100 100 ug/Kg 63654 09/18/02	% solids Determination         % solids Determination         81.0         0.10         1         % 62415         09/12/02           % solids, Solid         % lost lid         % lost lid         % lost lid         % lost lid         0.10         0.10         1         % lost lid         09/12/02           PDCB Analysis         No lost lid         ND lost lid	SGS Engineers, Inc.   Compare Sample ID: 105-2   Caboratory Sample ID: 211927-2   Caboratory Sample ID: 2119202   Caboratory Sample ID: 211927-2   Caboratory Sampl		62654	ug/kg	00000	001	_ <u>r</u>	******	) I	2 S		SOS SOLIO	
Solid  ND	Solid Solid ND U 58 100 1.00000 UG/Kg 63654 UG/18/02 Solid ND U 17 100 1.00000 UG/Kg 63654 UG/18/02 UG/18	Solid 100 1.00000 ug/Kg 63654 09/18/02 100 100 100 100 100 100 100 100 100 1	Solid ND U 58 100 1.00000 ug/Kg 63654 09/18/02 Solid ND U 17 1000 ug/Kg 63654 09/18/02 initrohenzene, Solid ND U 17 00000 ug/Kg 63654 09/18/02 initrohenzene Solid ND U 17 00000 ug/Kg 63654 09/18/02 initrohenzene Solid ND U 18 100 1.00000 ug/Kg 63654 09/18/02 initrohenzene Solid ND U 18 100 1.00000 ug/Kg 63654 09/18/02 initrohenzene Solid ND U 18 100 1.00000 ug/Kg 63654 09/18/02	% Solids Determination         81.0         0.10         1         %         62415         09/12/02           % Solids, Solid         % Solids, Solid         81.0         0.10         1         %         62415         09/12/02           PCB Analysis         Mosture, Solid         ND         U         3.5         20         1.00000         Ug/Kg         63718         09/25/02           Arcelor 1221, Solid**         ND         U         3.5         20         1.00000         Ug/Kg         63718         09/25/02           Arcelor 1222, Solid**         ND         U         3.6         20         1.00000         Ug/Kg         63718         09/25/02           Arcelor 1242, Solid*         ND         U         3.6         20         1.00000         Ug/Kg         63718         09/25/02           Arcelor 1242, Solid*         ND         U         3.3         20         1.00000         Ug/Kg         63718         09/25/02           Arcelor 1242, Solid*         ND         U         3.3         20         1.00000         Ug/Kg         63718         09/25/02           Arcelor 1242, Solid*         ND         U         3.3         20         1.00000         Ug/Kg         63718 <t< th=""><td>  SCS Engineers, Inc.   105-2   Laboratory Sample ID: 21927-2   Laboratory Sample ID: 21927-2</td><td></td><td></td><td></td><td>0000</td><td>ć</td><td>( *</td><td></td><td>3</td><td>9</td><td></td><td>Explosives by 8330 (HPLC)</td><td>8330</td></t<>	SCS Engineers, Inc.   105-2   Laboratory Sample ID: 21927-2				0000	ć	( *		3	9		Explosives by 8330 (HPLC)	8330
Explosives by 8330 (HPLC)         ND         U         110         250         1.00000         ug/Kg         63654           HMX, Solid         ND         U         58         100         1.00000         ug/Kg         63654           1,3,5-Trinitrobenzene, Solid         ND         U         17         100         1.00000         ug/Kg         63654           1,3-Dinitrobenzene, Solid         ND         U         22         100         1.00000         ug/Kg         63654           NItrobenzene, Solid         ND         U         22         100         1.00000         ug/Kg         63654           2,4,6-INI, Solid         ND         U         34         100         1.00000         ug/Kg         63654	Explosives by 8330 (HPLC)  ND  U  110  250  1.00000  Ug/Kg 63654  09/18/02  HMX, Solid  RDX, Solid  ND  U  17  100  1.00000  Ug/Kg 63654  09/18/02  09/18/02  1/3,5-Trinitrobenzene, Solid  ND  U  18  ND  U  ND  U  ND  U  ND  ND  U  ND  ND	Explosives by 8330 (HPLC)  ND  U  110  250  1.00000  ug/Kg 63654  09/18/02  RDX, Solid  ND  U  13.5-Trinitrobenzene, Solid  ND  ND  U  18  100  1.00000  ug/Kg 63654  09/18/02  09/18/02  09/18/02  1.00000  ug/Kg 63654  09/18/02  09/18/02  1.00000  ug/Kg 63654  09/18/02  09/18/02	Explosives by 8330 (HPLC)  ND  U  110  250  1.00000  ug/Kg 63654  09/18/02  ND  U  17  100  1.00000  ug/Kg 63654  09/18/02  Ug/Kg 63654  09/18/02	% Solids Determination         % Solids Determination         81.0         0.10         1         % 62415         09/12/02           % Solids, Solid         % Solids, Solid         19.0         0.10         0.10         1         % 62415         09/12/02           PCB Analysis         Anoclor 1016, Solid*         ND         U         3.5         20         1.00000         ug/Kg         63718         09/25/02           Aroclor 1016, Solid*         ND         U         3.5         20         1.00000         ug/Kg         63718         09/25/02           Aroclor 1221, Solid*         ND         U         7.6         20         1.00000         ug/Kg         63718         09/25/02           Aroclor 1242, Solid*         ND         U         7.6         20         1.00000         ug/Kg         63718         09/25/02           Aroclor 1248, Solid*         ND         U         7.6         20         1.00000         ug/Kg         63718         09/25/02           Aroclor 1248, Solid*         ND         U         2.8         20         1.00000         ug/Kg         63718         09/25/02           Cyanide (Colorimetric)         ND         U         0.1         3.0         20         1.00000	SES Engineers, Inc.   PROJECT: GSA - SLOP   ATTN: David Breker												
Explosives by 8330 (HPLC)  HMX, Solid  HMX, Solid  RDX, Solid  ND  U  110  250  1.00000  Ug/kg 63654  1.3.5-Trinitrobenzene, Solid  ND  U  1.3.5-Trinitrobenzene, Solid  ND  U  22  100  1.00000  Ug/kg 63654  1.3.5-Trinitrobenzene, Solid  ND  U  22  100  1.00000  Ug/kg 63654  2,4,6-TNI, Solid  Ug/kg 63654  2,4,6-TNI, Solid  Ug/kg 63654  2,4,6-TNI, Solid  Ug/kg 63654	Explosives by 8330 (HPLC)  HMX, Solid  HMX, Solid  RDX, Solid  RDX	Explosives by 8330 (HPLC)  HMX, Solid  RDX, Solid  RDX, Solid  ND  U  110  250  1.00000  ug/Kg  63654  09/18/02  13.5-Trinitrobenzene, Solid  ND  U  18  100  1.00000  ug/Kg  63654  09/18/02  09/18/02  13.5-Trinitrobenzene, Solid  ND  U  18  100  1.00000  1.00000  ug/Kg  63654  09/18/02  09/18/02	Explosives by 8330 (HPLC)  ND U 110 250 1.00000 ug/Kg 63654 09/18/02  HMX, Solid ND U 58 100 1.00000 ug/Kg 63654 09/18/02  1,3,5-iritrobenzene, Solid ND U 17 100 1.00000 ug/Kg 63654 09/18/02  1,3,5-iritrobenzene, Solid ND U 17 100 1.00000 ug/Kg 63654 09/18/02	% Solids Determination         % Solids Determination         % Solids Solid         62415         09/12/02           % Solids, Solid         % Solids, Solid         0.10         0.10         1         % 62415         09/12/02           PCB Analysis         Aroctor 1016, Solid*         ND         U         3.5         20         1.00000         ug/Kg         63718         09/25/02           Aroctor 1221, Solid*         ND         U         3.5         20         1.00000         ug/Kg         63718         09/25/02           Aroctor 1242, Solid*         ND         U         3.6         20         1.00000         ug/Kg         63718         09/25/02           Aroctor 1248, Solid*         ND         U         2.8         20         1.00000         ug/Kg         63718         09/25/02           Aroctor 1248, Solid*         ND         U         2.8         20         1.00000         ug/Kg         63718         09/25/02           Aroctor 1254, Solid*         ND         U         3.3         20         1.00000         ug/Kg         63718         09/25/02           Aroctor 1260, Solid*         ND         U         3.3         20         1.00000         ug/Kg         63718         09/25/02 <td>  SCS Engineers, Inc.   PROJECT: GSA - SLOP   ATTH: David Brewer    </td> <td></td> <td>90829</td> <td>mg/Kg</td> <td>20.00</td> <td>110</td> <td>85</td> <td></td> <td></td> <td>009</td> <td></td> <td></td> <td>1 2 2 1</td>	SCS Engineers, Inc.   PROJECT: GSA - SLOP   ATTH: David Brewer		90829	mg/Kg	20.00	110	85			009			1 2 2 1
Explosives by 8330 (HPLC)  Explosives by 8330 (HPLC)  HMX, Solid  Explosives by 8330 (HPLC)  HMX, Solid  ND  U  110  20.00  ug/kg 63654  1.3.5-Trinitrobenzene, Solid  ND  U  17  100  1.00000  ug/kg 63654  1.3.5-Trinitrobenzene, Solid  ND  U  1.3.5-Trinitrobenzene, Solid  ND  U  1.4.5-Initrobenzene, Solid  ND  U  1.5.5-Trinitrobenzene, Solid  ND  U  1.60000  1.000000  1.00000  1.00000  1.000000  1.00000  1	Phosphorous, Total as P, Solid*   600   18	Phosphorous, Total as P, Solid*   600   18   110   20.00   mg/Kg   63806   09/25/02	Explosives by 8330 (HPLC)  Explosives by 8330 (HPLC)  HMX, Solid  RDX, Solid  ND  U  110  20.00  mg/Kg 63806  09/25/02  100000  ug/Kg 63654  09/18/02  13.5-Trinitrobenzene, Solid  ND  U  17  13.5-Trinitrobenzene, Solid  ND  U  17  100  1,00000  1	% Solids Determination         % Solids Determination         % Solids Solid         % Solids Solids         % Solids<	SCS Engineers, Inc.   PROJECT: GSA - SLOP   ATTN: David Brewer   ATTN:											Phoenborous 411 Forms	1400PZ
Phosphorous, All Forms         All Forms         600         18         110         20.00         mg/Kg         63806           Explosives by 8330 (HPLC)         ND         U         110         250         1.00000         ug/Kg         63654           HMX, Solid         ND         U         17         100         1.00000         ug/Kg         63654           1,3,5-Trinitrobenzene, Solid         ND         U         17         100         1.00000         ug/Kg         63654           1,3-Diltrobenzene, Solid         ND         U         18         100         1.00000         ug/Kg         63654           1,3-Diltrobenzene, Solid         ND         U         22         100         1.00000         ug/Kg         63654           2,4,6-TNI, Solid         ND         U         34         100         1.00000         ug/Kg         63654	Phosphorous, All Forms         All Forms         600         18         110         20.00         mg/Kg         63806         09/25/02           Explosives by 8330 (HPLC)         ND         U         110         250         1.00000         ug/Kg         63554         09/18/02           RDX, Solid         ND         U         58         100         1.00000         ug/Kg         63554         09/18/02           1,3,5-Trinitrobenzene, Solid         ND         U         17         100         1.00000         ug/Kg         63554         09/18/02           1,3-Dinitrobenzene, Solid         ND         U         18         100         1.00000         ug/Kg         63554         09/18/02           ND         U         18         100         1.00000         ug/Kg         63554         09/18/02           ND         U         18         100         1.00000         ug/Kg         63554         09/18/02           ND         U         22         100         1.00000         ug/Kg         63554         09/18/02	Phosphorous, All Forms         All Forms         600         18         110         20.00         mg/Kg         63806         09/25/02           Explosives by 8330 (HPLC)         ND         U         110         250         1.00000         ug/Kg         63654         09/18/02           RDX, Solid         ND         U         17         100         1.00000         ug/Kg         63654         09/18/02           1,3.5-Trinitrobenzene, Solid         ND         U         17         100         1.00000         ug/Kg         63654         09/18/02           1,3.5-Dinitrobenzene, Solid         ND         U         18         100         1.00000         ug/Kg         63654         09/18/02	Phosphorous, All Forms         All Forms         600         18         110         20.00         mg/Kg         63806         09/25/02           Explosives by 8330 (HPLC)         ND         U         110         250         1.00000         ug/Kg         63654         09/18/02           HMX, Solid         ND         U         58         100         1.00000         ug/Kg         63654         09/18/02           13,5-Trinitrobenzene, Solid         ND         U         17         100         1.00000         ug/Kg         63654         09/18/02           13,5-Trinitrobenzene, Solid         ND         U         17         100         1.00000         ug/Kg         63654         09/18/02	% Solids Determination         % Solids Determination         81.0         0.10         1         % 62415         09/12/02           % Solids, Solid         % Moisture, Solid         0.10         0.10         1         % 62415         09/12/02           PCB Analysis         Analysis         Arcolor 1221, Solid*         ND         U         3.5         20         1.00000         ug/Kg 63718         09/25/02           Arcolor 1221, Solid*         ND         U         3.5         20         1.00000         ug/Kg 63718         09/25/02           Arcolor 1222, Solid*         ND         U         3.6         20         1.00000         ug/Kg 63718         09/25/02           Arcolor 1242, Solid*         ND         U         3.6         20         1.00000         ug/Kg 63718         09/25/02           Arcolor 1248, Solid*         ND         U         7.6         20         1.00000         ug/Kg 63718         09/25/02           Arcolor 1254, Solid*         ND         U         2.8         20         1.00000         ug/Kg 63718         09/25/02           Arcolor 1254, Solid*         ND         U         3.3         20         1.00000         ug/Kg 63718         09/25/02           Arcolor 1254, Solid*	SCS Engineers, Inc.   PROJECT: GSA - SLOP   ATTN: David Breker	09/18/02 14	63170	mg/Kg		0,48	0.15		⊃	ND		Cyanide, Total, Solid*	
Cyanide, Total, Solid*  ND  U  O.15  O.48  1  mg/Kg  63170  Dhosphorous, All Forms  Phosphorous, All Forms  Phosphorous, Intel as P, Solid*  Explosives by 8330 (HPLC)  HMX, Solid  HMX, Solid  ND  U  110  20.00  mg/Kg  63554  1,35-Trinitrobenzene, Solid  ND  U  17  100  1,00000  mg/Kg  63554  1,35-Trinitrobenzene, Solid  ND  U  1,35-Trinitrobenzene, Solid  ND  U  1,35-Trinitrobenzene, Solid  ND  U  22  100  1,00000  mg/Kg  63554  1,35-Trinitrobenzene, Solid  ND  U  22  100  1,00000  mg/Kg  63554  1,35-Trinitrobenzene, Solid  ND  U  22  100  1,00000  mg/Kg  63554  2,4,6-INI, Solid  24,6-INI, Solid  1,00000  mg/Kg  63554	Cyanide, Total, Solid*         ND         U         0.15         0.48         1         mg/kg         63170         09/18/02           Phosphorous, All Forms         Phosphorous, Iotal as P, Solid*         600         18         110         20.00         mg/kg         63806         09/25/02           Explosives by 8330 (HPLC)         ND         U         110         250         1.00000         ug/kg         63554         09/18/02           RDX, Solid         ND         U         17         100         1.00000         ug/kg         63554         09/18/02           RDX, Solid         ND         U         17         100         1.00000         ug/kg         63554         09/18/02           1,3,5-Trinitrobenzene, Solid         ND         U         17         100         1.00000         ug/kg         63554         09/18/02           1,3-Dinitrobenzene, Solid         ND         U         22         100         1.00000         ug/kg         63554         09/18/02	Cyanide, Total, Solid*         ND         U         0.15         0.48         1         mg/kg         63170         09/18/02           Phosphorous, All Forms         Phosphorous, Iotal as P, Solid*         600         18         110         20.00         mg/kg         63806         09/18/02           Explosives by 8330 (HPLC)         ND         U         110         250         1.00000         ug/kg         63654         09/18/02           RDX, Solid         ND         U         17         100         1.00000         ug/kg         63654         09/18/02           1,3.5-Trinitrobenzene, Solid         ND         U         17         100         1.00000         ug/kg         63654         09/18/02           1,3-Dinitrobenzene, Solid         ND         U         18         100         1.00000         ug/kg         63654         09/18/02	Cyanide, Total, Solid*  ND U 0.15 0.48 1 mg/Kg 63170 09/18/02  Phosphorous, All Forms Phosphorous, It forms Phosphorous, Total as P, Solid*  Explosives by 8330 (HPLC)  Explosives by 8330 (HPLC)  HMX, Solid  ND U 110 250 1.00000 ug/Kg 63554 09/18/02  RMX, Solid  ND U 17 100 1.00000 ug/Kg 63554 09/18/02  13.5-Frinitrobenzene, Solid  ND U 17 100 1.00000 ug/Kg 63554 09/18/02  13.5-Frinitrobenzene, Solid  ND U 17 100000 ug/Kg 63554 09/18/02  13.5-Frinitrobenzene, Solid  ND U 17 100000 ug/Kg 63554 09/18/02  13.5-Frinitrobenzene, Solid  ND U 17 100000 ug/Kg 63554 09/18/02	% Solids Determination         % Solids Determination         81.0         0.10         1         % 62415         09/12/02           % Solids, Solids and Sture, Solid Sture, S	SCS Engineers, Inc.   PROJECT: GSA SLOP   ATTN: David Brewer											Cyanide (Colorimetric)	9014/90108
Cyanide (Colorimetric)         ND         U         0.15         0.48         1         mg/Kg         63170           Cyanide, Total, Solid*         All Forms         600         18         110         20.00         mg/Kg         63806           Phosphorous, All Forms         600         18         110         20.00         mg/Kg         63806           Explosives by 8330 (HPLC)         ND         U         110         25.0         1.00000         ug/Kg         63554           HMX, Solid         ND         U         17         100         1.00000         ug/Kg         63554           1,3-Dinitrobenzene, Solid         ND         U         17         100         1.00000         ug/Kg         63554           1,3-Dinitrobenzene, Solid         ND         U         22         100         1.00000         ug/Kg         63554           Nitrobenzene, Solid         ND         U         34         100         1.00000         ug/Kg         63554           2,4,6-TNT, Solid         U         34         100         1.00000         ug/Kg         63554	Cyanide (Colorimetric)         ND         U         0.15         0.48         1         mg/Kg         63170         09/18/02           Cyanide, Total, Solid*         All Forms         600         1         1         1         1         09/18/02           Phosphorous, All Forms         Abhosphorous, Total as P, Solid*         600         1         1         1         09/18/02           Explosives by 8330 (HPLC)         ND         U         110         250         1.00000         ug/Kg         63654         09/18/02           Explosives by 8330 (HPLC)         ND         U         17         100         1.00000         ug/Kg         63554         09/18/02           HMX, Solid         ND         U         17         100         1.00000         ug/Kg         6354         09/18/02           1,3,5-Trinitrobenzene, Solid         ND         U         18         100         1.00000         ug/Kg         6354         09/18/02           Nitrobenzene, Solid         ND         U         22         100         1.00000         ug/Kg         6354         09/18/02	Cyanide (Colorimetric)         ND         U         0.15         0.48         1         mg/Kg         63170         09/18/02           Cyanide, Total, Solid*         All Forms         All Forms         600         110         20.00         mg/Kg         63806         09/25/02           Phosphorous, All Forms         Phosphorous, Total as P, Solid*         600         18         110         20.00         mg/Kg         63806         09/25/02           Explosives by 8330 (HPLC)         ND         U         110         20.00         ug/Kg         63554         09/18/02           HMX, Solid         ND         U         110         1.00000         ug/Kg         63554         09/18/02           1,3,5-Trinitrobenzene, Solid         ND         U         17         100         1.00000         ug/Kg         63554         09/18/02           1,3-Dinitrobenzene, Solid         ND         U         18         100         1.00000         ug/Kg         63554         09/18/02	Cyanide (Colorimetric)         ND         U         0.15         0.48         1         mg/Kg         63170         09/18/02           Cyanide, Total, Solid*         All Forms         600         18         110         20.00         mg/Kg         63806         09/18/02           Phosphorous, All Forms         Phosphorous, Total as P, Solid*         600         18         110         20.00         mg/Kg         63806         09/18/02           Explosives by 8330 (HPLC)         ND         U         110         250         1.0000         ug/Kg         63654         09/18/02           HMX, Solid         ND         U         17         100         1.0000         ug/Kg         63554         09/18/02           1,35-Trinitrobenzene, Solid         ND         U         17         100         1.0000         ug/Kg         63554         09/18/02	% Solids Determination         % Solids Determination         % Solids Solid         % So	SCS Engineers, Inc.   PROJECT: GSA - SLOP   ATTN: David Brewer		827.18	ug/kg	00000.1	02	o.c		)	Q.			
Cyanide (Colorimetric) ND	Cyanide (Colorimetric)  ND U 0.15 0.48 1 09/18/02  09/18/02  Explosives by 8330 (HPLC) HMX, Solid ND U 110 250 1.00000 Ug/Kg 63654 09/18/02 1,3.5-Trinitrobenzene, Solid ND U 17 100 1.00000 Ug/Kg 63654 09/18/02 1,3.5-Trinitrobenzene, Solid ND U 1,00000 U 1	Cyanide (Colorimetric)	Cyanide (Colorimetric) Cyanide, Total, Solid*  ND  U  0.15  O.48  1  mg/kg  63770  09/18/02  Cyanide (Colorimetric) Cyanide, Total, Solid*  ND  U  0.15  0.48  1  mg/kg  63770  09/18/02  Phosphorous, All Forms Phosphorous, Total as P, Solid*  Explosives by 8330 (HPLC) HMX, Solid HMX, Solid ND  U  110  250  1,00000  1,	% Solids Determination         % Solids Determination         % Solids	SCS Engineers, Inc.   PROJECT: GSA - SLOP   ATTM: David Brewer		63718	ug/Kg	1.00000	50	3.3		Ξ:	9 9		1254,	
Aroclor 1254, Solid* Aroclor 1254, Solid* Aroclor 1260, Solid* Aroclor 1	Aroclor 1254, Solid* Aroclor 1256, Solid* Aroclor 1260, Solid* Aroclor 1	Arcclor 1254, Solid*  Arcclor 1266, Solid*  Arcclor 1260, Solid*  Arcclor 1260, Solid*  Arcclor 1260, Solid*  ND  U  3.0  3.0  1.00000  Ug/Kg  63718  09/25/02  Cyanide, Total, Solid*  Phosphorous, All Forms  Phosphorous, Iotal as P, Solid*  Explosives by 8330 (HPLC)  HMX, Solid  ND  U  110  120  100000  Ug/Kg  63806  100  100000  Ug/Kg  63806  100  100000  Ug/Kg  63854  100  Ug/Kg  63854  Ug/Kg  638554  Ug/Kg  638564  Ug/Kg  638564  Ug/Kg  Cg/Kg  Cg/Kg  Ug/Kg  Cg/Kg  Ug/Kg  Cg/Kg  Ug/Kg  U	Aroclor 1254, Solid* Aroclor 1254, Solid* Aroclor 1260, Solid* Aroclor 1	% Solids Determination         % Solids Determination         % Solids	SCS Engineers, Inc.   PROJECT: GSA - SLOP   ATTN: David Brewer		63718	ug/Kg	1.00000	20 20	. 2.		) =	<b>S</b>		1248,	
Aroctor 1248, Solida Aroctor 1248, Solida Aroctor 1248, Solida Aroctor 1248, Solida Aroctor 1254, Solida Aroctor 1254, Solida Aroctor 1254, Solida Aroctor 1254, Solida Aroctor 1256, Solida Aroctor 1257, Solida Aroctor 1256, Solida Aroctor 1257, Solida Aroctor 1	Aroctor 1248, Solid* Aroctor 1248, Solid* Aroctor 1248, Solid* Aroctor 1248, Solid* Aroctor 1254, Solid* Aroctor 1255, Solid* Aroctor 1256, Solid* Aroctor 1	Aroctor 1248, Solid*  Aroctor 1248, Solid*  Aroctor 1254, Solid*  Aroctor 1260, Solid*  Aroctor 1254, Solid*  Aroctor 1255, Solid*  Aroctor 1254, Solid*	Aroctor 1248, Solid* ND U 2.8 20 1.00000 ug/kg 63718 09/25/02 Aroctor 1248, Solid* ND U 2.8 20 1.00000 ug/kg 63718 09/25/02 Aroctor 1260, Solid* ND U 3.3 20 1.00000 ug/kg 63718 09/25/02 Cyanide Colorimetric) Cyanide Colorimetric) Cyanide Total, Solid* Phosphorous, All Forms Phosphorous, Iotal as P, Solid* ND U 110 20.00 mg/kg 63806 09/25/02 Explosives by 8330 (HPLC) HMX, Solid RD U 110 250 1.00000 ug/kg 63654 09/18/02 13.51 100 1.00000 ug/kg 63654 09/18/02 14.51.51 1.00000 ug/kg 63654 09/18/02	% Solids Determination       % Solids Determination       81.0       0.10       1       % 62415       09/12/02         % Solids, Solid       % Moisture, Solid       % Moisture, Solid       % 62415       09/12/02         PCB Analysis       ND       U       3.5       20       1.00000       Ug/Kg       63718       09/25/02         Aroclor 1016, Solid*       ND       U       8.1       20       1.00000       Ug/Kg       63718       09/25/02	SCS Engineers, Inc.   PROJECT: GSA - SLOP   ATTN: David Brewer		63718	ug/Kg	1.00000	3 20	3.6		<b>&gt;</b> =	9 5			
Aroctor 1224, Solid* Aroctor 1225, Solid* Aroctor 1225, Solid* Aroctor 1225, Solid* Aroctor 1225, Solid* Aroctor 1226, Solid* Aroctor 1	Arctor 1222, Soild* MD 0 0 3.6 20 1.00000 ug/Kg 63718 09/25/02 Arctor 1224, Soild* MD 0 0 2.8 20 1.00000 ug/Kg 63718 09/25/02 Arctor 1264, Soild* MD 0 0 2.8 20 1.00000 ug/Kg 63718 09/25/02 Arctor 1264, Soild* Arctor 1265, Soild* Arctor 1265, Soild* Arctor 1265, Soild* Arctor 1266, Soild* MD 0 0 2.8 20 1.00000 ug/Kg 63718 09/25/02 Arctor 1260, Soild* Arctor 1260, Soild* Arctor 1260, Soild* MD 0 0 110 00000 ug/Kg 63718 09/25/02 Cyanide, Iotal, Soild* MD 0 0 110 00000 ug/Kg 6378 09/18/02 Explosives by 8330 (HPLC) HMX, Soild HMX, Soild RDX, Soild MD 0 0 178 00000 ug/Kg 63554 09/18/02 1,3.5-irrinitrobenzene, Soild ND 0 0 18 18 100 1.00000 ug/Kg 63554 09/18/02 1,3.5-irrinitrobenzene, Soild ND 0 0 18 18 100 1.00000 ug/Kg 63554 09/18/02 1,3.5-irrinitrobenzene, Soild Nitrobenzene, Soi	Aroctor 1252, Solid* Aroctor 1252, Solid* ND U S.8 20 1.00000 Ug/Kg 63718 09/25/02 Aroctor 1248, Solid* Aroctor 1248, Solid* Aroctor 1248, Solid* Aroctor 1254, Solid* Aroctor 1255, Solid* Aroctor 1256, Solid* Aroctor 1266, Solid* Aroctor 1256, Solid* Aroctor 1266, Solid* Aroctor 1256, Solid* Aroctor 1266, Solid* Aroctor 12	Arocion 1252, Solid*  Arocion 1252, Solid*  ND	% Solids Determination       81.0       0.10       1       % 62415       09/12/02         % Solids, Solid       % 62415       09/12/02         % Moisture, Solid       0.10       1       % 62415       09/12/02         PCB Analysis       Aroclor 1016, Solid*       ND       U       3.5       20       1.00000       Ua/Ka       67718       09/15/02	SCS-Engineers, Inc.   PROJECT: GSA - SLOP   ATTW: David Brewer		63718	ug/Kg	1.00000	20	8	**********	⊋	QN			
Aroctor 1221, Solid* Aroctor 1221, Solid* Aroctor 1222, Solid* Aroctor 1224, Solid* Aroctor 1	Aroclor 1221, Solid*  Aroclor 1221, Solid*  Aroclor 1221, Solid*  Aroclor 1221, Solid*  Aroclor 1222, Solid*  Aroclor 1222, Solid*  Aroclor 1222, Solid*  Aroclor 1232, Solid*  Aroclor 1234, Solid*  Aroclor 1235, Solid*  Aroclor 1235, Solid*  Aroclor 1235, Solid*  Aroclor 1234, Solid*  Aroclor 1235, Solid*  Aroclor 1248, Solid*  Aroclor 1248, Solid*  Aroclor 1248, Solid*  Aroclor 1254, Solid*  Aroclor 12500000 ug/kg 633554, Og/18/02  Aroclor 1254, Solid*  Aro	Aroctor 1221, Solid* Aroctor 1222, Solid* Aroctor 1222, Solid* Aroctor 1242, Solid* Aroctor 1244, Solid* Aroctor 1	Aroctor 1221, Solid* Aroctor 1221, Solid* Aroctor 1221, Solid* Aroctor 1222, Solid* Aroctor 1224, Solid* Aroctor 1	% Solids Determination % Solids, Solid % Solid % Solid % Moisture,	SCS-Engineers, Inc.   PROJECT: GSA - SLOP   ATTN: David Brewer		62778	10 / 10	1 00000	0	۸,		=	C			8082
PCB Analysis         Aroctor 1016, Solid*         ND         U         3.5         20         1.00000         ug/kg         63718         63710         63710         63710         63710         63710         63710         63710         63710         63710         63710         63710         63710         63710         63710         63710         63710         63710	PCB Analysis	PCB Analysis         Ancolor 1016, Solid*         ND         U         3.5         20         1.00000         ug/Kg         63718         09/25/02           Arcolor 1222, Solid*         ND         U         7.6         20         1.00000         ug/Kg         63718         09/25/02	PCB Analysis         PCB Analysis         PCB Analysis         PCB Analysis         PCB Analysis         PCB Analysis         <	% Solids Determination       81.0       0.10       1       % 62415       09/12/02         % Solids, Solid       19.0       0.10       1       % 62415       09/12/02	SCS-Engineers, Inc.   PROJECT: GSA - SLOP   ATTN: David Brewer			:								•	
PCB Analysis   Arcelor 1016, Solid*   ND	PCB Analysis	PCB Analysis   Arcelor 1016, Solid*   ND	PCB Analysis   Arcelor 1016, Solid*   ND	% Solids Determination % Colin	SCS Engineers, Inc.       PROJECT: GSA - SLOP       ATTN:       David Brewer         tomer Sample ID: 105-2       Laboratory Sample ID: 211927-2       Date Received: 09/11/2002         e Sampled: 50/10/2002       Time Received: 08/14/5         ple Matrix: Soil       Time Received: 08:45         # Solids Determination       SAMPLE RESULT   Q FLAGS   NDL         R Solids Determination       R Solids Determination	09/12/02 00(	62415	۶ %		0.10	0 10			19.0		% Solius, Soliu % Moisture, Solid	
PCS Analysis			PCB Amalysis   PCB	2	SCS Engineers, Inc.       PROJECT: GSA - SLOP       ATTN: David Brewer         tomer Sample ID: 105-2       Laboratory Sample ID: 211927-2       ATTN: David Brewer         e Sampled: 09/10/2002       Date Received: 09/11/2002       Fime Received: 09/11/2002         ple Matrix: Soil       Time Received: 08:45       ATTN: David Brewer         MOD       PARAMETER/TEST DESCRIPTION       SAMPLE RESULT       Q FLAGS       MDL       RL       DILUTION       UNITS: BATCH       DT	,00 ,00	37/67	6	*	Ć.	ç			0.18		% Solids Determination	Method
% Solids, Determination         81.0         0.10         0.10         1         % 62415           % Solids, Solid         % Moisture, Solid         19.0         0.10         0.10         1         % 62415           R Moisture, Solid         Mointere, Solid         ND         U         3.5         20         1.00000         ug/Kg         63718           Arccion 1252, Solid*         ND         U         3.6         20         1.00000         ug/Kg         63718           Arccion 1248, Solid*         ND         U         2.8         20         1.00000         ug/Kg         63718           Arccion 1248, Solid*         ND         U         2.8         20         1.00000         ug/Kg         63718           Arccion 1248, Solid*         ND         U         2.8         20         1.00000         ug/Kg         63718           Arccion 1248, Solid*         ND         U         2.8         20         1.00000         ug/Kg         63718           Arccion 1250, Solid*         ND         U         2.8         20         1.00000         ug/Kg         63718           Cyanide, Total, Solid*         ND         U         0.15         0.48         1         mg/Kg         63864	% solids, Solids         Selicities, Solids         Selicities, Solids         % solids         Selicities, Solids         % solids<	% solids, Solidary         81.0         0.10         1         %         62415         09/12/02           % solids, Solidare, Solid         % solidare, Solid         19.0         0.10         0.10         1         %         62415         09/12/02           PCB Analysis         % solidare, Solidare, Solidare, Solidare, Incompanies         ND         U         3.5         20         1.00000         Ug/Kg         63718         09/25/02           Arcetor 1222, Solidare, Solida	% Solids Determination         81.0         0.10         1         %         62415         09/12/02           % Solids Determination         % Solids         0.10         0.10         1         %         62415         09/12/02           % Moisture, Solid         Moisture, Solid         ND         U         3.5         20         1.00000         Ug/Kg         63718         09/12/02           PCB Analysis         Arcotor 1016, Solid*         ND         U         3.5         20         1.00000         Ug/Kg         63718         09/12/02           Arcotor 1222, Solid*         ND         U         3.6         20         1.00000         Ug/Kg         63718         09/12/02           Arcotor 1224, Solid*         ND         U         2.8         20         1.00000         Ug/Kg         63718         09/12/02           Arcotor 1240, Solid*         ND         U         2.8         20         1.00000         Ug/Kg         63718         09/15/02           Arcotor 1264, Solid*         ND         U         2.8         20         1.00000         Ug/Kg         63710         09/18/02           Cyanide (Colorimetric)         ND         U         0.15         0.48         1         0.48		SCS Engineers, Inc.       PROJECT: GSA - SLOP       ATTN: David Brewer         tomer Sample ID: 105-2       Laboratory Sample ID: 211927-2         e Sampled: 09/10/2002       Date Received: 09/11/2002         e Sampled: 50il       Time Received: 08:45         ple Matrix: Soil       AMPLE RESULT Q FLAGS										-	The state of the s	
% Solids Determination         \$ SAMPLE RESULT         Q FLAGS         NOL         RL         DILUTION         UNITS         BATCH         DT           % Solids Determination         % Solids Determination         81.0         0.10         0.10         1         %         62415         09           % Moisture, Solid         % Moisture, Solid         ND         0         0.10         1         %         62415         09           PCB Analysis         Arcelor 1221, Solid*         ND         U         3.5         20         1.00000         ug/Kg         63718         09           Arcelor 1222, Solid*         ND         U         3.5         20         1.00000         ug/Kg         63718         09           Arcelor 1242, Solid*         ND         U         3.5         20         1.00000         ug/Kg         63718         09           Arcelor 1245, Solid*         ND         U         2.8         20         1.00000         ug/Kg         63718         09           Arcelor 1245, Solid*         ND         U         3.3         20         1.00000         ug/Kg         63718         09           Cyanide, Total, Solid*         ND         U         0.15         0.48         1 </td <td>0 problem         PARAMETER/TEST DESCRIPTION         SAMPLE RESULT         FLAGS         NO.10         R.L         DILUTION         UNITS         BATCH         DATE/TO           % Solids, Solids         % Solids, Solids         81.0         0.10         0.10         1         % 62415         09/12/02           R Moisture, Solids         Montalysis         81.0         0.10         0.10         1         % 62415         09/12/02           PGB Analysis         Arcelor 1016, Solid*         ND         U         3.5         20         1.00000         Ug/Kg         62718         09/12/02           Arcelor 122, Solid*         ND         U         3.5         20         1.00000         Ug/Kg         63718         09/25/02           Arcelor 1224, Solid*         ND         U         2.6         20         1.00000         Ug/Kg         63718         09/25/02           Arcelor 1224, Solid*         ND         U         2.8         20         1.00000         Ug/Kg         63718         09/25/02           Arcelor 1224, Solid*         ND         U         0.1         2.2         1.00000         Ug/Kg         63718         09/25/02           Arcelor 1226, Solid*         ND         U         0.1         <t< td=""><td>% Solids Determination         \$ SAMPLE RESULT         6 FLAGS         NOL         RL         DILUTION         UNITS         8ATCH         DATE/ID           % Solids, Determination         % Solids Determination         81.0         0.10         1         % 62415         09/12/02           % Solids, Solid*         Mosture, Solid*         ND         U         3.5         20         1.00000         US/YS         62415         09/12/02           PCB Amalysis         Solid*         ND         U         3.5         20         1.00000         US/YS         62415         09/12/02           PCB Amalysis         Solid**         ND         U         3.5         20         1.00000         US/YS         62415         09/12/02           Arcelor 122, Solid**         ND         U         3.5         20         1.00000         US/YS         63718         09/25/02           Arcelor 124, Solid**         ND         U         3.3         20         1.00000         US/YS         63718         09/25/02           Arcelor 126, Solid**         ND         U         3.3         20         1.00000         US/YS         63718         09/25/02           Cyanide, Colorimetric)         ND         U         0.15</td><td>X Solids Determination         SAMPLE RESULT         Q FLAGS         MOL         0.10         0.10         1         X 6415         0712/02           X Solids Determination         \$ Solids Determ</td><th></th><td>SCS Engineers, Inc.       PROJECT: GSA SLOP         tomer Sample ID: 105-2       Laboratory Sample ID: 211927-2         E Sampled: 09/10/2002       Date Received: 09/11/2002         E Sampled: 50:1       Time Received: 08:45</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<></td>	0 problem         PARAMETER/TEST DESCRIPTION         SAMPLE RESULT         FLAGS         NO.10         R.L         DILUTION         UNITS         BATCH         DATE/TO           % Solids, Solids         % Solids, Solids         81.0         0.10         0.10         1         % 62415         09/12/02           R Moisture, Solids         Montalysis         81.0         0.10         0.10         1         % 62415         09/12/02           PGB Analysis         Arcelor 1016, Solid*         ND         U         3.5         20         1.00000         Ug/Kg         62718         09/12/02           Arcelor 122, Solid*         ND         U         3.5         20         1.00000         Ug/Kg         63718         09/25/02           Arcelor 1224, Solid*         ND         U         2.6         20         1.00000         Ug/Kg         63718         09/25/02           Arcelor 1224, Solid*         ND         U         2.8         20         1.00000         Ug/Kg         63718         09/25/02           Arcelor 1224, Solid*         ND         U         0.1         2.2         1.00000         Ug/Kg         63718         09/25/02           Arcelor 1226, Solid*         ND         U         0.1 <t< td=""><td>% Solids Determination         \$ SAMPLE RESULT         6 FLAGS         NOL         RL         DILUTION         UNITS         8ATCH         DATE/ID           % Solids, Determination         % Solids Determination         81.0         0.10         1         % 62415         09/12/02           % Solids, Solid*         Mosture, Solid*         ND         U         3.5         20         1.00000         US/YS         62415         09/12/02           PCB Amalysis         Solid*         ND         U         3.5         20         1.00000         US/YS         62415         09/12/02           PCB Amalysis         Solid**         ND         U         3.5         20         1.00000         US/YS         62415         09/12/02           Arcelor 122, Solid**         ND         U         3.5         20         1.00000         US/YS         63718         09/25/02           Arcelor 124, Solid**         ND         U         3.3         20         1.00000         US/YS         63718         09/25/02           Arcelor 126, Solid**         ND         U         3.3         20         1.00000         US/YS         63718         09/25/02           Cyanide, Colorimetric)         ND         U         0.15</td><td>X Solids Determination         SAMPLE RESULT         Q FLAGS         MOL         0.10         0.10         1         X 6415         0712/02           X Solids Determination         \$ Solids Determ</td><th></th><td>SCS Engineers, Inc.       PROJECT: GSA SLOP         tomer Sample ID: 105-2       Laboratory Sample ID: 211927-2         E Sampled: 09/10/2002       Date Received: 09/11/2002         E Sampled: 50:1       Time Received: 08:45</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	% Solids Determination         \$ SAMPLE RESULT         6 FLAGS         NOL         RL         DILUTION         UNITS         8ATCH         DATE/ID           % Solids, Determination         % Solids Determination         81.0         0.10         1         % 62415         09/12/02           % Solids, Solid*         Mosture, Solid*         ND         U         3.5         20         1.00000         US/YS         62415         09/12/02           PCB Amalysis         Solid*         ND         U         3.5         20         1.00000         US/YS         62415         09/12/02           PCB Amalysis         Solid**         ND         U         3.5         20         1.00000         US/YS         62415         09/12/02           Arcelor 122, Solid**         ND         U         3.5         20         1.00000         US/YS         63718         09/25/02           Arcelor 124, Solid**         ND         U         3.3         20         1.00000         US/YS         63718         09/25/02           Arcelor 126, Solid**         ND         U         3.3         20         1.00000         US/YS         63718         09/25/02           Cyanide, Colorimetric)         ND         U         0.15	X Solids Determination         SAMPLE RESULT         Q FLAGS         MOL         0.10         0.10         1         X 6415         0712/02           X Solids Determination         \$ Solids Determ		SCS Engineers, Inc.       PROJECT: GSA SLOP         tomer Sample ID: 105-2       Laboratory Sample ID: 211927-2         E Sampled: 09/10/2002       Date Received: 09/11/2002         E Sampled: 50:1       Time Received: 08:45												
X Solids Determination         SAMPLE RESULT         Q FLAGS         NO. 10         0.10         1         X Solids Solid         0.10         1         X Solids Solid         0.10         0.10         0.10         1         X Solids Solid         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.10         0.00	0         PARAMETER/TEST DESCRIPTION         SAMPLE RESULT         0 FLAGS         MO         0.10         0.10         1         %         62415         DOT/12/02           % Solids, Determination         % Solids, Solid         19.00         0.10         0.10         1         %         62415         097/12/02           % Solids, Solid         Moisture, Solid         ND         0         0.10         0.10         1         %         62415         097/12/02           PGB Analysis         Arcetor 1016, Solid*         ND         0         0         3.5         20         1.00000         ug/Kg         63718         097/12/02           Arcetor 1025, Solid*         ND         0         0         3.6         2.0         1.00000         ug/Kg         63718         097/12/02           Arcetor 1225, Solid*         ND         0         0         0         0         0         ug/Kg         63718         097/12/02           Arcetor 1225, Solid*         ND         0         0         0         0         0         ug/Kg         63718         097/12/02           Arcetor 1224, Solid*         ND         0         0         0         0         0         0         0         0	% Solids Determination         \$ SAMPLE RESULT         0 FIAGS         NO. 10         0.10         1         % 62415         09712/02           % Solids Determination         % Solids Determination         81.0         0.10         0.10         1         % 62415         09712/02           % Solids Solid*         Moisture, Solid         ND         U         3.5         20         1.00000         UB/Kg 62415         09712/02           PRE Analysis         PRE Analysis         ND         U         3.5         20         1.00000         UB/Kg 62415         09712/02           PRE Ancien 1221, Solid*         ND         U         3.5         20         1.00000         UB/Kg 63718         09725/02           Arcelor 1224, Solid*         ND         U         3.6         20         1.00000         UB/Kg 63718         09725/02           Arcelor 1224, Solid*         ND         U         3.6         20         1.00000         UB/Kg 63718         09725/02           Arcelor 1246, Solid*         ND         U         3.6         20         1.00000         UB/Kg 63718         09725/02           Arcelor 1246, Solid*         ND         U         3.0         2.0         1.00000         UB/Kg 63718         09725/02	% Solids Determination         % SAMPLE RESULT         0 FLAGS         MDL         R.L         DILUTION         UNITS         BATCH         DATE/IT           % Solids, Solids         Solids betermination         % Solids         SAMPLE RESULT         0 FLAGS         MDL         0.10         1         % 62415         097/12/02           R Mosture, Solids         No.         U         3.5         20         1.00000         UB/Kg         62715         097/12/02           PRB Analysis         Arcelor 1016, Solid*         ND         U         3.5         20         1.00000         UB/Kg         62715         097/12/02           PRB Analysis         Arcelor 1221, Solid*         ND         U         3.5         20         1.00000         UB/Kg         63718         097/12/02           Arcelor 1222, Solid*         ND         U         3.5         20         1.00000         UB/Kg         63718         097/12/02           Arcelor 1224, Solid*         ND         U         3.3         20         1.00000         UB/Kg         63718         097/18/02           Arcelor 1224, Solid*         ND         U         2.6         20         1.00000         UB/Kg         63718         097/18/02           Arcelor 1224		SCS Engineers, Inc.  ATTN: David tomer Sample ID: 105-2  E Sampled: 09/10/2002  E Sampled: 05/11/2002  E Sampled: 15:40											Matrix Soil	Sample
### Solids Deltarist: Soil Heads	### SAMPLE RESULT   0 FLAGS   WDL   RL   DILUTION   UNITS   SAMPLE RESULT   0 FLAGS   WDL   U   1	### ### ### ### ### ### ### ### ### ##	### ### ### ### ### ### ### ### ### ##	Soil	SCS Engineers, Inc. ATTN: David tomer Sample ID: 105-2						ב עברבו אבריייי	Dat					Date Sar
Sampled=: 95/10/2002   Time Received: 08:45   Sampled=: 09/10/2002   Time Received: 06:45   Sampled=: 05/10/2002   Samp	## Sample ## Sam	Sample   S	PARAMETER/TEST DESCRIPTION   SAMPLE RESULT   Q FLAGS   MOL   RL   DILUTION   UNITS   SATCH   DT   DATE/TION	U9/1U/ZUUZ 15:40 Soil	SCS Engineers, Inc. ATTN: David						e Received	٠					Custome
Sample   D: 21927-2   Claboratory Samp	Page	Sampled   10   105-2   Time Received   10   105-2	PARAMETER/TEST DESCRIPTION   SAMPLE RESULT   Q FLAGS   NOL   NOL   10   10   10   10   10   10   10   1	105-2 09/10/2002 Date Received 15:40 Soil	SCS Engineers, Inc. PROJECT: GSA -: SLOP ATTN: David						oratory Sample I e Received	Lab					
Sample ID: 105-2   Category Sample ID: 21/927-2   Category S	Sampled   Doc   1195-2   Date Received   Doc   1196-2   Date Received   Doc   1196-2   Date Received   Doc	Sample ID: 105-2   Eaboratory Sample ID: 21927-2   Eaboratory	Sample 10: 105-2   Date Received 09/11/2002   Date Received 09/11/2002   Time Received 09/11/2002   Sampled 15:40   Date Received 09/11/2002   Date Received	105-2 09/10/2002 Date Received		rewer				t	oratory Sample I e Received	Lab		ZX.		90 Dec	
State   Sample   D: 105-2	State   Stat	State   Continuence   Contin	State   100   10	SCS Engineers, Inc.       PROJECT: GSA - SLOP       ATTN: David         tomer Sample ID: 105-2       Laboratory Sample ID: 211927-2         e Sampled: 09/10/2002       Date Received: 09/11/2002         e Sampled: 50il       Time Received: 08:45			David Br	ATTN:		: N II : O	oratory Sample I e Received	11.5		Ç			

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Job Number	Job Number: 211927		- 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ב ה ה ה ה	o -		Date:			
Customer Date San Time Sam Sample M	Customer Sample ID: 105-2 Date Sampled: 09/10/2002 Time Sampled: 15:40 Sample Matrix: Soil			atory Sample Received	10: 211927-2 : 09/11/2002 : 08:45		**************************************			
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	0 FLAGS	TOM	RL	DILUTION	UNITS	ВАТСН	DI DATE/TIME	METECH
	2-Amino-4,6-Dinitrotoluene, Solid 4-Amino-2,6-Dinitrotoluene, Solid 2-Nitrotoluene, Solid 4-Nitrotoluene, Solid 3-Nitrotoluene, Solid	Q Q Q Q Q	2222	33 33 50	200 200 200 500 200 200	1.00000 1.00000 1.00000 1.00000	ug/Kg ug/Kg ug/Kg ug/Kg	63654 63654 63654 63654 63654	09/18/02 09/18/02 09/18/02 09/18/02	0245 san 0245 san 0245 san 0245 san
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.022	ದ	0.0067	0.041	**	П9/Кg	63552	09/23/02	1221 gok
6010B	Metals Analysis (ICAP Trace) Aluminum, Solid* Antimony, Solid* Arsenic, Solid* Barium, Solid* Beryllium, Solid* Cadmium, Solid* Calcium, Solid* Chromium, Solid* Chromium, Solid* Chromium, Solid* Chromium, Solid* Chromium, Solid* Chromium, Solid* Magnesium, Solid* Manganese, Solid* Morkel, Solid* Morkel, Solid* Solid* Morkel, Solid*	9700 ND 3.9 93 ND 3800 18 4.5 4.5 17 1000 15 2700 200 200 13 660 ND 380	2 2 23	1.8 0.68 0.38 0.03 0.060 2.3 0.11 1.3 0.098 0.19 0.30 0.30	15 0.75 0.30 0.30 0.38 3.8 2.0 2.38 2.0 2.38 2.0 2.38 2.0 2.38 2.0 2.38		mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630	09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02	1222 tds 1222 tds 122
	* In Description = Dry Wgt.		Page 10							



	Job Number: 211927	LABORATORY	F S	T RESUL	S F		Date:0	Date:09/26/2002			
CUSTOMER: SCS	s Engineers, Inc.	PROJECT:	GSA - SLOP	<b>J</b> P			ATTN:	David Bre	Вгемег		
Custome Date Se Time Se Sample	Customer Sample ID: 105-2 Date Sampled: 09/10/2002 Time Sampled: 15:40 Sample Matrix: Soil		Labor Date Time	atory Sample Received Received	: 08:45						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	Toy	78	DILUTION	UNITS	ВАТСН	DT DATE/11ME	TIME	TECH
	Thallium, Solid* Vanadium, Solid* Zinc, Solid*	ND 2.8 3.8	3	0.50 0.16 0.30	0.75 0.38 1.5	-	mg/Kg mg/Kg mg/Kg	63630 63630 63630	09/23/02 09/23/02 09/23/02	2 1222 2 1222 2 1222	tg tg tg st
	Phenol, Solid* Bis(2-chloroethyl)ether, Solid* 1,3-Dichlorobenzene, Solid* 1,4-Dichlorobenzene, Solid* 1,2-Dichlorobenzene, Solid* 2-Methylphenol (o-cresol), Solid* 2,2-oxybis (1-chloropropane), Solid* n-Nitroso-di-n-propylamine, Solid*	999999999		100 110 100 150 150 150 150	000 4 4 4 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0		ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	63720 63720 63720 63720 63720 63720 63720 63720	09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02	0042	<u> </u>
		9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		20 20 20 20 20 20 20 20 20 20 20 20 20 2	400 400 400 400 400 400 400 400 400 400	1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	18/ Kg 18	63720 63720 63720 63720 63720 63720 63720 63720 63720 63720 63720	09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02		
AAAAAAA SAMAYAYAYAYAYAYAYAYAYAYAYAYAYA	Z,4,5-irichiorophenol, Solid*	2	D	87	2100	1.00000	ug/Kg	63720	09/21/02	2 0042	<del>ğ</del>

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	Job Number: 211927	LABORATORY	E S F	RESUL	S		Date:0	Date:09/26/2002		
CUSTOMER: SCS	Engineers, Inc.	PROJECT:	GSA SLOP				ATTN:	David Brewer	(e.r.	
Customer Date Sam Time Sam Sample M	Customer Sample ID: 105-2 Date Sampled: 09/10/2002 Time Sampled: 15:40 Sample Matrix: Soil		Labor Date   Time	Laboratory Sample ID: Date Received: Time Received:	: ID: 211927-2 : 09/11/2002 : 08:45					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT 0	FLAGS	-TQW	፟፟፟፟፟	NOTTO	UNITS	ватсн рт	DATE/TIME	TEC#
	Hexachlorocyclopentadiene, Solid*			150	007	1.00000	ug/Kg	63720	09/21/02 0042	흏
	2-Methylnaphthalene, Solid*   2-Nitroaniline Solid*	9 9		290	400	1.00000	ug/Kg	63720		
	2-Chloronaphthalene, Solid*			65	004	1.00000	ug/kg ug/kg	63720		ž ž
	4-Chloro-3-methylphenol, Solid*		·	100	400	1.00000	ug/Kg	63720		
	Z,6-Dinitrotoluene, Solid*  Z-Mitroshops  Solid*	9		76	400 400	1.0000	ug/Kg	63720		
	3-Nitroaniline, Solid*			70	2100	1,00000	ug/kg ug/ka	63720	09/21/02 0042	<del>Š</del> Ě
	Dimethyl phthalate, Solid*			91	400	1.00000	ug/Kg	63720		
	2,4-Dimitrophenol, Solid*			240	2100	1.00000	ug/Kg	63720		
	Acenaphinytene, Solid"  2.4-Dinitrotoluene, Solid*			<i>,</i> 6	400	1-00000	ug/Kg	65720	09/21/02 0042	<del>ğ</del> <del>(</del>
	Acenaphthene, Solid*			64	400	1.00000	ug/kg ug/Kg	63720	09/21/02 0042	
***************************************	Dibenzofuran, Solid*			29	400	1.00000	ug/Kg	63720		- <del>설</del>
	4-Nitrophenol, Solid*			077	2100	1.00000	ug/Kg	63720		
	rtuorene, sotia: 4-Nitroaniline Solid*			120	2,00	1.00000	ug/Kg	63720	09/21/02 0042	ğ j
	4-Bromophenyl phenyl ether, Solid*			110	700	1.00000	ug/kg	63720		
	Hexachlorobenzene, Solid*	ND ON		86	400	1.00000	ug/Kg	63720		
	Diethyl phthalate, Solid*			110	400	1.00000	ug/Kg	63720		
	4-thioropheny  pheny  ether, solid*  Dentach onopheno  solid*			110	400	1.00000	ug/Kg	63720		
	n-Wittosodiphenylamine Solid*	S (S		130	0017	1.00000	ug/kg	02/20	09/21/02 0042	<del>8</del> 8
	4,6-Dinitro-2-methylphenol, Solid*			170	2100	1,00000	ua/Ka	63720		
	Phenanthrene, Solid*			83	400	1,00000	ug/Kg	63720		
	Anthracene, Solid*			88	400	1.00000	ug/Kg	63720		
	Solid*			100	400	1.00000	ug/Kg	63720		
				87	700	1.00000	ug/Kg	63720		
-	Benzidine, Solid*	O	k	2400	4000	1.00000	ug/Kg	63720	09/21/02 0042	츙

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	Job Number: 211927	LABORATORY	TES	T RESUL	S T		Date:0	Date: 09/26/2002			
CUSTOMER: SCS Engineers,	Engineers, Inc.	PROJECT:	GSA - SLOP	do			ATTN:	David Br	Brewer		
Custome Date Sa Time Sa Sample	Customer Sample ID: 105-2 Date Sampled: 09/10/2002 Time Sampled: 15:40 Sample Matrix: Soil		Labor Date Time	Laboratory Sample ID: Date Received: Time Received:	ID: 211927-2 09/11/2002 08:45						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	JOW	RL	DILUTION	UNITS	ватсн	DT DATE/TIME		TECH
82608	Fluoranthene, Solid* Pyrene, Solid* Butyl benzyl phthalate, Solid* Benzo(a)anthracene, Solid* Ghrysene, Solid* 3,3-Dichlorobenzidine, Solid* Bis(2-ethylhexyl)phthalate, Solid* Bis(2-ethylhexyl)phthalate, Solid* Benzo(b)fluoranthene, Solid* Benzo(b)fluoranthene, Solid* Benzo(c)fluoranthene, Solid* Benzo(a)pyrene, Solid* Indeno(1,2,3-cd)pyrene, Solid* Benzo(a)pyrene, Solid* Dibenzo(a,h)anthracene, Solid* Benzo(ghi)perylene, Solid* Chloromethane, Solid* Benzo(ghi)perylene, Solid* Informethane, Solid* Solid* Chloromethane, Solid* Chloroethene, Solid* Infolloroethene, Solid* Acetone, Solid* Methylene chloride, Solid* Acetone, Solid* Methylene chloride, Solid* Infolloroethene, Solid* Methylene chloride, Solid* Methylene chloride, Solid* Methylene chloride, Solid* Methyl-tert-butyl-ether (MIBE), Solid* Methyl-tert-butyl-ether (MIBE),	G G G G G G G G G G G G G G G G G G G	*	110 170 140 64 64 140 140 140 140 170 0.79 3.1 1.0 0.78 1.1 1.1 1.9	000 000 000 000 000 000 000 000 000 00	1.000000 1.00000 1.0000 1.0000	63/60 63/60	63720 63720	09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02	00042 00	
	* In Description = Dry Wat.		Page 13		And the state of t						

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Date:09/26/2002	ATTN: David Brewer
LABORATORY TEST RESULTS	PROJECT: GSA - SLOP
Job Number: 211927	CUSTOMER: SCS Engineers, Inc.

Customer Sample ID: 105-2
Date Sampled....: 09/10/2002
Time Sampled....: 15:40
Sample Matrix...: Soil

Laboratory Sample ID: 211927-2
Date Received.....: 09/11/2002
Time Received.....: 08:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	O FLAGS	MDL	R	DILUTION	UNITS	ВАТСН	DT DATE/TIME	ME TECH	э <b>ж</b>
	2,2-Dichloropropane, Solid*	ND	5	1.4	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	cis-1,2-Dichloroethene, Solid*	Q.	)	1.3	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	2-Butanone (MEK), Solid*	10		4,5	5.4	1.00000	ug/Kg	63482	09/19/02	1102 so	
	Bromochloromethane, Solid*	Q	⊃	1.1	5.4	1.00000	ug/Kg	63482	09/19/02	1102 so	
	Chloroform, Solid*	QN	n	99.0	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	1,1,1-Trichloroethane, Solid*	QN	n	0.65	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
*************	1,1-Dichloropropene, Solid*	2	ח	0.86	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	Carbon tetrachioride, Solid*	Q	n	0.89	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	Benzene, Solid*	2	)	0.71	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	1,2-Dichloroethane, Solid*	QN	n	0.62	5.4	1.00000	ug/Kg	63482	09/19/02	1102 Jso	
	Trichloroethene, Solid*	Q	n	0.63	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	_
	1,2-Dichloropropane, Solid*	2	<b>∩</b>	0.	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	Dibromomethane, Solid*	Q.	Ω	7.20	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	Bromodichloromethane, Solid*	Q	Ω	0.73	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	cis-1,3-Dichloropropene, Solid*	Q.	n	0.85	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	4-Methyl-2-pentanone (MIBK), Solid*		<b>=</b>	3.2	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	Toluene, Solid*	٥,1		<u>-</u> -	5,4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
····	trans-1,3-Dichloropropene, Solid*	S	<b></b>	06.0	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	1,1,2-Trichloroethane, Solid*	S	<b>:</b>	0.76	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	Tetrachloroethene, Solid*	2	5	0.72	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	1,3-Dichloropropane, Solid*	2	=	0,1	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	2-Hexanone, Solid*	2	<b>5</b>	<del>د</del> ھ	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	Dibromochloromethane, Solid*	2	*	0.74	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	1,2-Dibromoethane (EDB), Solid*	9	<b>5</b>	0.81	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	Chlorobenzene, Solid*	2	⊐	0.98	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	1,1,1,2-Tetrachloroethane, Solid*	2	*	0.78	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	Ethylbenzene, Solid*	2		1.2	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
	m&p-Xylenes, Solid*	2		2.3	firm.	1.00000	ug/Kg	63482	09/19/02	1102 jso	
-	o-Xylene, Solid*	9	⊃	1.0	5.4	1.00000	ug/Kg	63482	09/19/02	1102 jso	
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\* In Description = Dry Wgt.



Job Number: 211927	7	ABORATORY	⊢ m	ST RESUL	тз		Date:(	Date:09/26/2002	2		
CUSTOMER: SCS Engineers, Inc.		PROJECT:	GSA -	SLOP			ATTN:	David B	Brewer		
Customer Sample ID: 105-2 Date Sampled: 09/10/2002 Time Sampled: 15:40 Sample Matrix: Soil			Labor Date Time	Laboratory Sample ID: Date Received: Time Received	ID: 211927-2 09/11/2002 08:45						
TEST METHOD PARAMETER/TEST DESCRIPTION	SCRIPTION	SAMPLE RESULT (	0 FLAGS	NO.	- K	DILUTION	UNITS	ВАТСН	10	DATE/TIME	E TECH
Styrene, Solid* Bromoform, Solid* Isopropylbenzene, Solid* 1,1,2,2-Tetrachloroethane, Solid* 1,2,3-Trichloropropane, Solid* n-Propylbenzene, Solid* 2-Chlorotoluene, Solid* 4-Chlorotoluene, Solid* 1,3,5-Trimethylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* p-Isopropyltoluene, Solid* n-Butylbenzene, Solid* n-Butylbenzene, Solid* 1,2,5-Trichlorobenzene, Solid* 1,2-Dibromo-3-chloropropane, Solid* 1,2-3-Trichlorobenzene, Solid*	be, Solid* Solid* Solid* Solid* da* Solid* Solid*	M M M M M M M M M M M M M M M M M M M	* " " " " " " " " " " " " " " " " " " "	1.1 0.98 0.76 0.69 1.1 1.1 0.83 0.83 0.73 1.2 1.2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg	63482 63482 63482 63482 63482 63482 63482 63482 63482 63482 63482 63482 63482 63482 63482	888888888888888888888888888888888888888	09/19/02 1 09/19/02 1	1102 js 0 1102 j
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\* In Description = Dry Wgt.

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Constitute Sample to 1653   David Street Sample 10: 217927-3   Time Sample Sa		Job Number: 211927	ABORATOR	S ⊟ ⊢	т ж г г г	S		Date:0	Date:09/26/2002		
Example 10: 105-3   Endorstory Sample 10: 211927-3   Endorstory Sample 10: 105-3   Endorstory Sample 10: 105-3   Endorstory Sample 10: 105-3   Endorstory Sample 10: 105-3   Endorstory Endorst Endorstory Endo	CUSTOMER: SCS	Engineers,	ROJECT	GSA	<b>d0</b>			ATTN:			
% Solids Determination         83.1         G 11,050         0.10         1         % 62415         BATCH DT/202         DT/202           % Solids Determination         8 Solids Determination         83.1         0.10         0.10         1         % 62415         DATE/102           % Solids, Solid*         ND         U         7.9         2.0         1.00000         UM/N         62718         09/12/102           PCB Analysis, Solid*         ND         U         7.9         2.0         1.00000         UM/N         62718         09/12/102           Arcotor 1224, Solid*         ND         U         7.5         2.0         1.00000         UM/N         63718         09/12/102           Arcotor 1224, Solid*         ND         U         7.5         2.0         1.00000         UM/N         63718         09/12/102           Arcotor 1224, Solid*         ND         U         7.5         2.0         1.00000         UM/N         63718         09/12/102           Arcotor 1224, Solid*         ND         U         2.4         2.0         1.00000         UM/N         63718         09/12/102           Arcotor 1224, Solid*         ND         U         2.4         2.0         1.00000         UM/N	Custome Date Sa Time Sa Sample			Lab Dat Tim	oratory Sample   e Received e Received			·			
X Solids, Petermination         X Solids Petermination         83.1         0.10         1         X 62415         109/12/02           X Solids, Solid         X Solids         16.9         0.10         1         X 62415         109/12/02           PCB Analysis         Arcelor 1215, Solid*         ND         U         7.9         2.0         1.00000         Ug/Kg 65718         09/25/02           Arcelor 1221, Solid*         ND         U         7.5         2.0         1.00000         Ug/Kg 65718         09/25/02           Arcelor 1222, Solid*         ND         U         7.5         2.0         1.00000         Ug/Kg 63718         09/25/02           Arcelor 1222, Solid*         ND         U         7.5         2.0         1.00000         Ug/Kg 63718         09/25/02           Arcelor 1226, Solid*         ND         U         2.7         2.0         1.00000         Ug/Kg 63718         09/25/02           Arcelor 1226, Solid*         ND         U         3.2         2.0         1.00000         Ug/Kg 63718         09/25/02           Arcelor 1226, Solid*         ND         U         3.0         3.0         1.00000         Ug/Kg 63718         09/25/02           Cyanide, Total, Solid*         ND <th< th=""><th>TEST METHOD</th><th>PARAMETER/TEST DESCRIPTION</th><th></th><th></th><th>MDL</th><th><b>K</b></th><th>DILUTION</th><th>UNITS</th><th>1.5</th><th></th><th>TEC#</th></th<>	TEST METHOD	PARAMETER/TEST DESCRIPTION			MDL	<b>K</b>	DILUTION	UNITS	1.5		TEC#
PEB Analysis   PEB Analysis	Method	% Solids Determination % Solids, Solid % Moisture, Solid	83.1 16.9		0.10	0.10	<u></u>	%	62415 62415	09/12/02 000 09/12/02 000	38 clb
Cyanide (Colorimetric)  Cyanide, Total, Solid*  ND  U  0.11  0.34  1  mg/Kg 63170  09/18/02  Phosphorous, All Forms Phosphorous, All Forms Phosphorous, Total as P, Solid*  Explosives by 8330 (HPLC)  HMX, Solid  ND  U  110  250  1,00000  ug/Kg 63554  09/18/02  1,3.5-Trinitrobenzene, Solid  ND  U  17  99  1,00000  ug/Kg 63554  09/18/02  1,3.5-Trinitrobenzene, Solid  ND  U  17  99  1,00000  ug/Kg 63554  09/18/02  2,4.6-Trinitrotoluene, Solid  ND  U  43  2,4-Dimitrotoluene, Solid  ND  U  47  200  ug/Kg 63554  09/18/02  2,4-Dimitrotoluene, Solid  ND  U  47  200  ug/Kg 63554  09/18/02  2,4-Dimitrotoluene, Solid  ND  U  47  200  ug/Kg 63554  09/18/02  09/18/02  2,4-Dimitrotoluene, Solid  ND  U  47  200  ug/Kg 63554  09/18/02  09/18/02  2,4-Dimitrotoluene, Solid  ND  U  47  200  ug/Kg 63554  09/18/02	8082	lysis 1016, 1221, 1232, 1242, 1248, 1254,	Q Q Q Q Q Q Q	322222	3,7 3,5 3,5 3,0 3,0	200000000000000000000000000000000000000	1.00000 1.00000 1.00000 1.00000	19/Kg 19/Kg 19/Kg 19/Kg 19/Kg	63718 63718 63718 63718 63718 63718		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Phosphorous, All Forms Phosphorous, Total as P, Solid*  Explosives by 8330 (HPLC) HMX, Solid HMX, Solid HMX, Solid LJ,3,5-Trinitrobenzene, Solid ND U C C C C C C C C C C C C C C C C C C	9014/9010B	Cyanide (Colorimetric) Cyanide, Total, Solid*	QN.	⊃	0.11	0.34	q	mg/Kg	63170	09/18/02 144	.4 rnm
Explosives by 8330 (HPLC)  HMX, Solid  HMX, Solid  RDX, Solid  RDX	4500PE		430		6.9	58	10,00	mg/Kg	63806		8 CVW
	8330	Sol Sol	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5555555	110 58 17 18 22 33 43 47	500 200 200 200 200 200 200 200	1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	ng/kg ng/kg ng/kg ng/kg ng/kg ng/kg ng/kg	63654 63654 63654 63654 63654 63654 63654 63654		

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	Job Number: 211927	ABORATOR	Y E S	RESUL	S 1	The state of the s	Date:0	Date:09/26/2002			
CUSTOMER: SCS Engineers,	Engineers, Inc.	PROJECT	: GSA - SL	dOTS	*		ATTN:	David Bre	Вгемег		
Customer Date San Time San Sample M	Customer Sample ID: 105-3 Date Sampled: 09/10/2002 Time Sampled: 16:10 Sample Matrix: Soil		Lab Dat Tim	Laboratory Sample ID: Date Received	e ID: 211927-3 : 09/11/2002 : 08:45						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	JQW	120	DILUTION	UNITS	ВАТСН	DT DATE	DATE/TIME	TECH
	2-Amino-4,6-Dinitrotoluene, Solid 4-Amino-2,6-Dinitrotoluene, Solid 2-Nitrotoluene, Solid 4-Nitrotoluene, Solid 3-Nitrotoluene, Solid	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2222	36 96 33 46 50	200 200 200 500 500	1.00000 1.00000 1.00000 1.00000	ug/Kg ug/Kg ug/Kg ug/Kg	63654 63654 63654 63654 63654	09/18/02 09/18/02 09/18/02 09/18/02	02 0422 02 0422 02 0422 02 0422 02 0422	san san san
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.029	œ	0.0065	070°0	-	т9/К9	63552	09/23/02	02 1223	gok
6010B	Metals Analysis (ICAP Trace) Aluminum, Solid* Antimony, Solid* Arsenic, Solid* Barium, Solid* Barium, Solid* Cadmium, Solid* Calcium, Solid* Chromium, Solid* Chromium, Solid* Chromium, Solid* Chromium, Solid* Chromium, Solid* Copper, Solid* Iron, Solid* Iron, Solid* Magnesium, Solid* Nickel, Solid* Potassium, Solid*	12000 ND 5.8 110 0.38 0.071 2400 14 2700 420 420 420 15 1100 ND 760	5 g 55	1.8 0.69 0.39 0.034 0.017 0.17 0.13 0.33 0.31 0.31	15 1.5 0.77 0.31 0.38 7.7 0.38 1.38 1.77 0.38 7.7 0.38	6m 6	######################################	63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630	09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02	02 1228 02 1228	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
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CUSTOMER: SCS Customer Date Sam Time Sample M Sample M TEST METHOD	Job Number: 211927  CUSTOMER: SCS Engineers, Inc.  Customer Sample ID: 105-3 Date Sampled: 09/10/2002 Time Sampled: 16:10 Sample Matrix: Soil Sample Matrix: Soil Thallium, Solid* Vanadium, Solid* Zinc, Solid* Zinc, Solid* Bis(2-chlorobenzene, Solid* 1,3-Dichlorobenzene, Solid* 1,2-Dichlorobenzene, Solid*	PROJECT:	GSA FLAG	Rece	88.000	DILUTION 1.00000 1.00000 1.00000	ATTN: ATTN: mg/Kg mg/Kg mg/Kg ug/Kg ug/Kg	8 [[무명]	02 Brewer D1 DATE/TIME 09/23/02 12 09/23/02 22 09/20/02 22 09/20/02 22 09/20/02 22 09/20/02 22	ME 1228 1228 1228 1228 2233 2233 2233
	1,2-Dichlorobenzene, Solid* Benzyl alcohol, Solid* 2-Methylphenol (o-cresol), Solid* 2-C-oxybis (1-chloropropane), Solid* n.Nitroso-di-n-propylamine, Solid* Hexachloroethane, Solid* 4-Methylphenol (m/p-cresol), Solid* 2-chlorophenol, Solid* Nitrobenzene, Solid* Nitrobenzene, Solid* Siz-chloroethoxy)methane, Solid* 1,2,4-Trichlorobenzene, Solid* 1,2,4-Trichlorobenzene, Solid* 1,2,4-Trichlorophenol, Solid* 1,2,4-Dimethylphenol, Solid* 2,4-Dichlorophenol, Solid* 4-Chloroaniline, Solid* 2,4,6-Trichlorophenol, Solid* 2,4,6-Trichlorophenol, Solid* 2,4,6-Trichlorophenol, Solid* 2,4,6-Trichlorophenol, Solid* 2,4,6-Trichlorophenol, Solid* 2,4,6-Trichlorophenol, Solid* 2,4,5-Trichlorophenol, Solid* 2,4,5-Trichlorophenol, Solid*	222222222222222222222222222222222222222	Page 18	200 200 200 200 200 200 200 200 200 200	380 380 380 380 380 380 380 380 380 380	7.1.00000 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000	63/60 63	63721 63721 63721 63721 63721 63721 63721 63721 63721 63721 63721	09/20/05 09/20/05 09/20/05 09/20/05 09/20/05 09/20/05 09/20/05 09/20/05 09/20/05 09/20/05 09/20/05	\$\frac{1}{2}\$ \frac{1}{2}\$

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	Job Number: 211927	. ABORATORY	LLÎ 	ST RESUL	S		Date:(	Date:09/26/2002	2		
CUSTOMER: SCS Engineers,	Engineers, Inc.	PROJECT:	GSA	3C10P			ATTN:	David B	Brewer		
Custome Date Sar Time Sar Sample P	Customer Sample ID: 105-3 Date Sampled: 09/10/2002 Time Sampled: 16:10 Sample Matrix: Soil		La Ti	Laboratory Sample ID: Date Received	10: 211927-3 : 09/11/2002 : 08:45						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	JOW	<b>.</b>	DILUTION	ONITS	ВАТСН	10	DATE/TIME	TECH
	Hexachlorocyclopentadiene, Solid*	QN	Э	140	390	1.00000	ug/Kg	63721	60	09/20/02 2233	<u> </u>
	ol id	ON	<b></b>	280	390	1.00000	ug/Kg	63721	06)		
	2-Nitroaniline, Solid*	2 9	<u> </u>	130	2000	1.00000	ug/Kg	63721	88		
	// Chloro-3-methylphenol Solid*	2 2	<b>)</b> =	100	390	1.00000	ug/kg	12759	2 6	09/20/02 2255	<del>X</del> <del>X</del>
	2,6-Dinitrotoluene, Solid*	S S	) <u></u>	92	390	1.00000	ug/Kg	63721	88		
	2-Nitrophenol, Solid*	ON .	<b>ɔ</b> :	91	390	1.00000	ug/Kg	63721	60		
	S-Nitroani(ine, Solid*   Dime+bu		<b>⇒</b> =	160	2000	1,00000	ug/Kg	63721	88	09/20/02 2233	
	2.4-Dinitrophenol. Solid*	2 2	2 2	230	2000	1,0000	ug/kg	63771	6 6		ğ. <del>Z</del>
	Acenaphthylene, Solid*	QN	- >	65	390	1.00000	ug/Kg	63721	66		
	2,4-Dinitrotoluene, Solid*	QN	<b>=</b>	87	390	1,00000	ug/Kg	63721	66		
	Acenaphthene, Solid* Dibenzofuran, Solid*	390		5 5	390	1.00000	ug/Kg	63721	8 8	09/20/02 2233	ğ <del>ğ</del>
	4-Nitrophenol, Solid*		<sub>&gt;</sub>	430	2000	1.00000	ug/Kg	63721	66		
	Fluorene, Solid*	1000	·••••	120	390	1.00000	ug/Kg	63721	60		
	4-Nitroaniline, Solid* 7-Bromonhemy phony other Solid*	2 9	5 =	160	2000	1.00000	ug/Kg	63721	66	09/20/02 2233	<del>ğ</del> i
		2 2	o	84	390	1,0000	ug/kg ug/Ka	63721	66		
	Diethyl phthalate, Solid*	Q.	n	110	390	1.00000	ug/Kg	63721	66		
	4-Chlorophenyl phenyl ether, Solid*	2 :	<b>D</b> :	100	390	1.00000	ug/Kg	63721	66		
	Pentachlorophenol, Solid* n-Nitrosodiphenylamine Solid*	2 9	<b>)</b> =	120	2000	1.00000	ug/kg	12753	200	09/20/02 2233	<del>ğ</del> <del>ğ</del>
	4,6-Dinitro-2-methylphenol, Solid*		) D	170	2000	1.00000	ug/Kg ug/Kg	63721	66		
	Phenanthrene, Solid*	11000		330	1600	4.00000	ug/Kg	63721	01 09,		
		1800	+	98	390	1.00000	ug/Kg	63721	88		
	carbazote, sould"  Diseshity  phthalate solid*			 	200		ug/kg	65/21	3 2	09/20/02 2233	
	Solid*		> =	2300	3900	1.00000	ug/Kg	63721	8	09/20/02 2233	<del>\$ 8</del>
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	Job Number: 211927	LABORATOR	Y T E	ST RESUL	ω 		Date:0	Date:09/26/2002	2		
CUSTOMER: SCS Engineers,	Engineers, Inc.	PROJECT:	esA +	SLOP			ATTN:	David Brewer	rewer		
Custome Date Sal Time Sal Sample P	Customer Sample ID: 105-3 Date Sampled: 09/10/2002 Time Sampled: 16:10 Sample Matrix: Soil		La: Tai	Laboratory Sample ID: Date Received Time Received	e ID: 211927-3 : 09/11/2002 : 08:45						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	<b>39</b>		DILUTION	UNITS	ВАТСН	10	DATE/TIME	TECH
82608	Fluoranthene, Solid* Pyrene, Solid* Butyl benzyl phthalate, Solid* Benzo(a)anthracene, Solid* Chrysene, Solid* 3,3-Dichlorobenzidine, Solid* Bis(2-ethylhexyl)phthalate, Solid* Di-n-octyl phthalate, Solid* Benzo(b)fluoranthene, Solid* Benzo(b)fluoranthene, Solid* Indeno(1,2,3-cd)pyrene, Solid* Indeno(1,2,3-cd)pyrene, Solid* Dibenzo(a,h)anthracene, Solid* Dichlorodifluoromethane, Solid* Chloromethane, Solid* Gromethane, Solid* Frichlorofluoromethane, Solid* Cricocethane, Solid* Trichlorofluoromethane, Solid* Actone, Solid* Actone, Solid* Methylene chloride, Solid* Actone, Solid* Actone, Solid* I,1-Dichloroethene, Solid* Actone, Solid* Methylene chloride, Solid* Hethylene chloride, Solid* Methylene chloride, Solid* Methylene chloride, Solid* Methylerett-butyl-ether (MTBE), Solid* Methyl-tert-butyl-ether (MTBE), Solid*	14000 ND 4400 ND 4800 5300 ND 4800 3700 3700 2400 1100 ND ND N	E *	440 680 140 63 47 47 130 130 130 140 69 130 130 130 130 130 130 130 130 130 130	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	4.00000 1.000000 1.000000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00	18/K9	63721 63722 63722	0,000,000,000,000,000,000,000,000,000,	99/24/02 1518 99/24/02 1518 99/20/02 2233 99/20/02 2233 99/20/02 2233 99/20/02 2233 99/20/02 2233 99/20/02 2233 99/20/02 2233 99/20/02 2233 99/20/02 2233 99/19/02 1227 99/19/02 1227	第3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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	Job Number: 211927	A B O R A T O R Y T	EST RESUL	S		Date:0	Date:09/26/2002		
CUSTOMER: SCS	Engineers, Inc.	PROJECT: GSA	80°18			ATTN:	David Bre	rever	
Customer Date San Time San Sample P	Customer Sample ID: 105-3 Date Sampled: 09/10/2002 Time Sampled: 16:10 Sample Matrix: Soil		Laboratory Sample 1D: Date Received Time Received	. 10: 211927-3 : 09/11/2002 : 08:45					
TEST METHOD	PARAMETER/IEST DESCRIPTION	SAMPLE RESULT   Q   FLAGS	GS MDL	¥	DILUTION	UNITS	BATCH D	DT DATE/TIME	TECH
	2,2-Dichloropropane, Solid*		1,4	5,5	1.00000	ug/Kg	63482	09/19/02 12	1227 jso
	cis-1,2-Dichloroethene, Solid*	ON CN	1,3 4,7	ស ឃុំ n	1.00000	ug/Kg	63482	09/19/02 12	N N
•	Bromochloromethane, Solid*		, <del>-</del>	ຸ່ນ	1,0000	ug/kg ug/Kg	63482	-	
	Chloroform, Solid*		69.0	ກຸດ	æ	ug/Kg	63482		
	1,1,1-Trichloroethane, Solid* 1,1-Dichloropropene, Solid*		79.0	ານ r. ກັນ ກ	1.00000	ug/Kg	63482	09/19/02 12	1227 jso 1227 jso
	Carbon tetrachloride, Solid*		0.92	ຸທ	1.00000	ug/Kg ug/Kg	63482		
	Benzene, Solid*		0.73	ນຸນ	1.00000	ug/Kg	63482		
	1,Z-Dichloroethane, Solid* Trichloroethene. Solid*		0.64	rv ru សំសំ	1,00000	ug/Kg ug/Ka	63482	09/19/02 12	1227 jso 1227 jso
	1,2-Dichloropropane, Solid*		Home I	សុ	1.00000	ug/Kg	63482		
	Dibromomethane, Solid* Bromodichloromethane Solid*		0.76	ณ เบ้ก	1.00000	ug/Kg	63482	09/19/02 12	1227 jso
	cis-1,3-Dichloropropene, Solid*		78.0	, rv , rv	1.00000	ug/Kg	63482		
	4-Methyl-2-pentanone (MIBK), Solid*		5,3	ณ ณ์ ก	1.00000	ug/Kg	63482	09/19/02 12	1227 jso
-	trans-1,3-Dichloropropene, Solid*		0.93	, nu , nu	1.00000	ug/kg ug/kg	63482		
	1,1,2-Trichloroethane, Solid*		0,79	ณ กับก	1.00000	ug/Kg	63482	09/19/02 12	
	1,3-Dichloropropane, Solid*		*.o.'	ຸກຸ	1.00000	ug/Kg ug/Kg	63482	- ,	1227 JS0
	2-Hexanone, Solid*	<b>5</b>		ru ri	1.00000	ug/Kg	63482	•	,
	Dibromochloromethane, Solid*  1 2-nibromochbane (EDR)   Solid*	*	0.76	ເບ ແ ເບ້ ແ	1.00000	ug/Kg	63482	09/19/02 12	227   50
	Chlorobenzene, Solid*		. 0	, <sub>ເບ</sub>	1.00000	ug/Kg	63482		
	1,1,1,2-Tetrachloroethane, Solid*			r.	1.00000	ug/Kg	63482	ç	
	Ethylbenzene, Solid*   m&n-Xv enes Solid*		7.2	₹. <del>1</del> .	1,00000	ug/Kg	63482	09/19/02 12	1227 jso
	o-Xylene, Solid*	<u> </u>	, t-	بر بر	1.00000	ug/Kg ug/Kg	63482		• •
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	Job Number: 211927	ABORATORY	TEST RESU	S L 1		Date:09	Date:09/26/2002			
CUSTOMER: SCS	Engineers, Inc.	PROJECT: GSA	do]s - Y			ATTN:	David Brewer	J-D-R		[3888] [
Custome Date Sal Time Sal	Customer Sample ID: 105-3 Date Sampled: 09/10/2002 Time Sampled: 16:10 Sample Matrix: Soil		Laboratory Sample ID: Date Received	e ID: 211927-3 : 09/11/2002 : 08:45	A.					
TEST METHOD	PARAMETER/TEST DESCRIPTION	AMPLE RESULT Q	FLAGS MDL	12	DILUTION	S	BATCH DT		1	/3± :1
	Styrene, Solid* Bromoform, Solid* Bromobenzene, Solid* 1,1,2,2-Tetrachloroethane, Solid* 1,2,3-Trichloropropane, Solid* n-Propylbenzene, Solid* 2-Chlorotoluene, Solid* 4,3,5-Trimethylbenzene, Solid* 4,5,4-Trimethylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* n-Butylbenzene, Solid* n-Butylbenzene, Solid* n-Butylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* 1,2,5-Trichlorobenzene, Solid* 1,2,5-Trichlorobenzene, Solid* 1,2,5-Trichlorobenzene, Solid*		* 0.10 0.73 0.73 0.73 0.95 0.95 0.90 0.93 1.12 1.12	ע ת יעי ת יעי ת יעי ת יעי תי יעי יעי יעי	1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg	63482 63482 63482 63482 63482 63482 63482 63482 63482 63482 63488 63488 63488 63488 63488 63488 63488	09/19/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02	1227   50 1227   50	
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	Job Number: 211927	ABORATOR	Y 7 E	ST RESUL	s 1 7		Date:C	Date: 09/26/2002		
CUSTOMER: SCS	SCS Engineers, Inc.	PROJECT:	GSA -	3C0P			ATTN:	David Brewer	Wer	
Custome Date Sa Time Sa Sample	Customer Sample ID: 105-4 Date Sampled: 09/10/2002 Time Sampled: 16:50 Sample Matrix: Soil		Lai Da Tii	Laboratory Sample ID: Date Received Time Received	1D: 211927-4 : 09/11/2002 : 08:45					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	TGW	RL	DILUTION	UNITS	ВАТСН DT	T DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	81.4		0.10	0.10		24.24	62415 62415	09/12/02 0008 09/12/02 0008	clb
8082	PCB Analysis Aroclor 1016, Solid* Aroclor 1221, Solid* Aroclor 1232, Solid* Aroclor 1248, Solid* Aroclor 1254, Solid* Aroclor 1256, Solid*	<del>2 2 2 2 2 2 2</del>	222223	w & w r v w w v - v v v v	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1,00000 1,00000 1,00000 1,00000 1,00000 1,00000	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	63718 63718 63718 63718 63718 63718	09/25/02 0147 09/25/02 0147 09/25/02 0147 09/25/02 0147 09/25/02 0147 09/25/02 0147	<u> </u>
9014/90108	Cyanide (Colorimetric) Cyanide, Total, Solid*	QN	<u> </u>	0.13	07.0		mg/Kg	63170	09/18/02 1444	Enr
4500PE	Phosphorous, All Forms Phosphorous, Total as P, Solid*	520		19	110	20.00	mg/Kg	63806	09/25/02 1618 CVW	<b>¾</b>
8330	Explosives by 8330 (HPLC) HMX, Solid RDX, Solid 1,3,5-frinitrobenzene, Solid 1,3-Dinitrobenzene, Solid Nitrobenzene, Solid 2,4,6-TNI, Solid Tetryl, Solid 2,4-Dinitrotoluene, Solid 2,6-Dinitrotoluene, Solid	22222222	2222222	110 57 17 17 17 33 43 43	250 98 98 98 89 200 200 200	1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg	63654 63654 63654 63654 63654 63654 63654 63654 63654	09/18/02 0527 09/18/02 0527 09/18/02 0527 09/18/02 0527 09/18/02 0527 09/18/02 0527 09/18/02 0527	san san san san san
	* In Description = Drv Wat.		Page 23		***************************************					

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	Job Number: 211927	ABORATOR	Y TES	T RESUL	S		Date:0	Date: 09/26/2002			
CUSTOMER: SCS	Engineers, Inc.	PROJECT	: GSA - SLOP				ATTN:	David Br	Brewer		
Custome Date Sar Time Sar Sample P	Customer Sample ID: 105-4 Date Sampled: 09/10/2002 Time Sampled: 16:50 Sample Matrix: Soil		Labo Date Time	Laboratory Sample ID: Date Received: Time Received:	.D: 211927-4 : 09/11/2002 : 08:45						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	a FLAGS	IQW	RL	DILUTION	UNITS	ВАТСН	DT DAT	DATE/TIME	<b>T</b> EC#
	2-Amino-4,6-Dinitrotoluene, Solid 4-Amino-2,6-Dinitrotoluene, Solid 2-Nitrotoluene, Solid 4-Nitrotoluene, Solid 3-Nitrotoluene, Solid	2222	22222	35 46 46 46	200 200 200 490 200	1.00000 1.00000 1.00000 1.00000	ug/Kg ug/Kg ug/Kg ug/Kg	63654 63654 63654 63654 63654 63654	09/18/02 09/18/02 09/18/02 09/18/02	/02 0527 /02 0527 /02 0527 /02 0527 /02 0527	7 san 7 san 7 san 7 san 7 san
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.073		0.0066	0.041		mg/Kg	63552	09/23	09/23/02 1226	6 gok
6010B	Metals Analysis (ICAP Trace) Aluminum, Solid* Antimony, Solid* Arsenic, Solid* Barium, Solid* Beryllium, Solid* Cadmium, Solid* Calcium, Solid* Chromium, Solid* Chomium, Solid* Chomium, Solid* Chomium, Solid* Copper, Solid* Iron, Solid* Iron, Solid* Magnesium, Solid* Mickel, Solid* Potassium, Solid*	11000 ND 4.3 120 0.36 ND 4100 2.2 5.2 13 15000 210 210 210 210 210 210 210	2 2 22	1.9 0.72 0.41 0.035 0.035 0.18 0.72 0.72 0.34 1.4 0.20 0.20 0.20	16 1.6 0.80 0.32 0.32 0.40 0.40 0.80 0.80 0.80 0.80 0.80 0.80		99/K9 99/K9 99/K9 99/K9 99/K9 99/K9 99/K9 99/K9 99/K9 99/K9	63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630	09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02 09/23/02	702 1234 702 1234 703 1234 703 1234	44444444444444444444444444444444444444

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	Job Number: 211927	LABORATORY	3 -	STRESUL	S		Date:0	Date:09/26/2002	23		
CUSTOMER: SCS	Engineers, Inc.	PROJECT:	GSA -	8L0P			ATTN:	David Brewer	)rewer		
Custome Date San Time San Sample P	Customer Sample ID: 105-4 Date Sampled: 09/10/2002 Time Sampled: 16:50 Sample Matrix: Soil		Lak Dat Tin	Laboratory Sample ID: Date Received Time Received	ID: 211927-4 : 09/11/2002 : 08:45						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	Œ	X.	DILUTION	UNITS	ВАТСН	Ιd	DATE/TIME	TECH
	Thallium, Solid* Vanadium, Solid* Zinc. Solid*	0.56 30 43	8	0,53	0.80 0.40		mg/Kg mg/Kg	63630	6668	09/23/02 12 09/23/02 12 09/23/02 12	1234 tds 1234 tds 1234 tds
8270C	Semivolatile Organics Phenol, Solid* Bis(2-chloroethyl)ether, Solid* 1,3-Dichlorobenzene, Solid* 1,4-Dichlorobenzene, Solid* 1,2-Dichlorobenzene, Solid* 2,2-oxybls (1-chloropropane), Solid* 2,2-oxybls (1-chloropropane), Solid* n-Nitroso-di-n-propylamine, Solid* Hexachloroethane, Solid* 4-Methylphenol (m/p-cresol), Solid* 4-Methylphenol (m/p-cresol), Solid* 1,2,4-Trichlorobenzene, Solid* 1,2,4-Trichlorobenzene, Solid* 1,2,4-Trichlorobenzene, Solid* 1,2,4-Dimethylphenol, Solid*			100 110 120 120 120 120 120 120 120 120	700 700 700 700 700 700 700 700 700 700	1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	6 / 6 a a a a a a a a a a a a a a a a a	63720 63720 63720 63720 63720 63720 63720 63720 63720 63720 63720 63720	888888888888888888888888888888888888888		
	<pre>4-Chloroaniline, Solid* 2,4,6-Trichlorophenol, Solid* 2,4,5-Trichlorophenol, Solid*</pre>	Q Q Q	222	150 82 81	400 400 2000	1,00000	ug/Kg ug/Kg ug/Kg	63720 63720 63720	6666	09/24/02 15 09/24/02 15 09/24/02 15	1551 dpk 1551 dpk 1551 dpk
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Customer Date Sam Time Sam Sample M	Job Number: 211927  Customer Sample ID: 105-4  Date Sampled: 09/10/2002  Time Sampled: 16:50  Sample Matrix: 50il  Hexachlorocyclopentadiene, Solid*  2-Nethylnaphthalene, Solid* 2-Chloronaphthalene, Solid* 4-Chloro-3-methylphenol, Solid* 4-Chloro-3-methylphenol, Solid* 2-Nitrophenol, Solid* 3-Nitrophenol, Solid* 3-Nitrophenol, Solid* 2,4-Dinitrotoluene, Solid* 2,4-Dinitrotoluene, Solid* Acenaphthene, Solid* Acenaphthene, Solid* Acenaphthene, Solid* Acenaphthene, Solid* 4-Nitrophenol, Solid* 4-Nitrophenol, Solid* 4-Nitrophenol, Solid* 4-Nitrophenol, Solid* 4-Bromophenyl phenyl ether, Solid* 4-Nitrophenol, Solid* 4-Chlorophenyl phenyl ether, Solid* 4-Chlorophenyl ether, Solid*	SAMPLE RESULT  SAMPLE RESULT  ND  ND  ND  ND  ND  ND  ND  ND  ND  N	+ VSS G DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	SLOP  Laboratory Sample Date Received Time Received 150 290 290 240 66 89 64 440 110 110 110 110 86 88 89 64 64 86 89 89 89 89 80 80 80 80 80 80 80 80 80 80 80 80 80	T S  ID: 211927-4 : 08:45 : 08:45 : 08:45 : 08:45 : 08:45  400  400  400  400  400  400  400	DILUTION	Date:0  MITS  UB/Kg  UB/Kg	ATTN: David Bre 63720 (Kg	DT DATE/TIME:  09/24/02 155	## 1
	Anthracene, Solid* Carbazole, Solid* Anthracene, Solid*		, , , , ,	3888	4 4 4 4 4 4 4 4 4 4 4 9 9 9 9 9 9 9 9 9	1.00000	ug/kg ug/kg	63720	4 4 4	
			*	2400	0007	1.00000	ug/kg ug/Kg	63720	•	1551 dpk

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	Job Number: 211927	ABORATORY	<u>+</u>	ST RESUL	8	mannann di kakarararararararararararararararararar	Date:0	Date: 09/26/2002			
CUSTOMER: SCS	Engineers, Inc.	PROJECT:	GSA -	SLOP			ATTN:	David Bre	Brewer		
Custome Date Sar Time Sar Sample	Customer Sample ID: 105-4 Date Sampled: 09/10/2002 Time Sampled: 16:50 Sample Matrix: Soil		<b>⊣</b> 0⊢	Laboratory Sample ID: Date Received: Time Received:	ID: 211927-4 : 09/11/2002 : 08:45						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDT	RL	DILUTION	UNITS	BATCH	DT DATE/TIME	145	TECH
	2,2-Dichloropropane, Solid*	ON		1,4	5.3	1.00000	ug/Kg	63482	09/19/02	1130	osí
	cis-1,2-Dichloroethene, Solid* 2-Bitanone (MEK) Solid*	S S	<b>=</b> =	د. ا د. ا	ת היי	1,00000	ug/Kg	63482	09/19/02	*- *	jso
	Bromochloromethane, Solid*	S S	, ,	t -	5.50	1.00000	es/kg ng/Kg	63482	09/19/02	1130	08:
	Chloroform, Solid*	ND	5	0.65	5,3	1.00000	ug/Kg	63482	09/19/02	1130	osí
	1,1,1-Trichloroethane, Solid*	2 9	<b>&gt;</b> :	79.0	5.3	1.00000	ug/Kg	63482	09/19/02	1130	So
	(, 1-Dichloropene, solid* Carbon tetrachloride, Solid*	2 2	5 5	0.88 88.0	ک اور دی اور	1,00000	ug/kg ua/Ka	63482	20/41/60	1130	os i
	Benzene, Solid*	1 2	ı	02.0	2 12	1.00000	ug/Kg	63482	09/19/02	1130	Š
	1,2-Dichloroethane, Solid*	Q	n	0.61	5.3	1.00000	ug/Kg	63482	09/19/02	1130	jso
	Trichloroethene, Solid*	9 9		0.62	ny r Wis	1,00000	ug/Kg	63482	09/19/02	1130	įso.
······································	l,z-Dichloropane, solia Dibromomethane. Solid*	S S	<del></del>	0°-1	V T V K	1.00000	ug/kg ug/ka	63482	20/61/60	1130	08 .
- min - mil vo	Bromodichloromethane, Solid*	Q	) D	0.72	, w	1.00000	ug/Kg	63482	09/19/02	1130	Š
	cis-1,3-Dichloropropene, Solid*	Q.	<b>□</b>	0.83	χ, ν,	1.00000	ug/Kg	63482	09/19/02	1130	jso
	<pre>4-Methyl-z-pentanone (MIBK), Solid* Toluene Solid*</pre>		<b>=</b>	3.2	บุก ผู้น	1.00000	ug/Kg	63482	09/19/02	130	08.
	trans-1,3-Dichloropropene, Solid*	<u>S</u>	· >	0.89	i vi	1.00000	ug/Kg	63482	09/19/02	1130	s i
	1,1,2-Trichloroethane, Solid*	QN	=	0.75	5,3	1.00000	ug/Kg	63482	09/19/02	1130	jso
	Tetrachloroethene, Solid*	Q. C	<b>&gt;</b> :	0.73	5,7	1.00000	ug/Kg	63482	09/19/02	1130	)so
	2. Hexanone Solid*	2 5	5 =	1.80		00000	UG/KG	507400	09/19/02	1,00	os i
	Dibromochloromethane, Solid*	Q	*	0.73	5 20	1,00000	ug/Kg	63482	09/19/02	1130	S S
	1,2-Dibromoethane (EDB), Solid*	QN	5	08.0	5.3	1.00000	ug/Kg	63482	09/19/02	1130	jso
	Chlorobenzene, Solid*	2	÷ : c	96.0	no r	1,00000	ug/Kg	63482	09/19/02	1130	)so
	Ethylbenzene. Solid*	2 8	· > =	2.5	, r.	1,00000	ug/kg	20400	20/61/60	1130	08.
	m&p~Xylenes, Solid*	Q	· >	2,2	11.5	1,00000	ug/Kg	63482	09/19/02	1130	So
	o-Xylene, Solid*	9	<b>5</b>	0.98	5.3	1.00000	ug/Kg	63482	09/19/02	1130	jso
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LABORATORY TEST RESULTS  Date:09/26/2002  PROJECT: GSA - SLOP	Laboratory Sample ID: 211927-4 Date Received: 09/11/2002 Time Received: 08:45	SAMPLE RESULT   G FLAGS   MOL	
Job Number: 211927 CUSTOMER: SCS.Engineers. Inc.		Styrene, Solid*  Bromoform, Solid*  Bromobenzene, Solid*  1,1,2,2-Tetrachloroethane, Solid* 1,2,3-Trichloropropane, Solid* 1,3,5-Trimethylbenzene, Solid* 1,3,5-Trimethylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* 1,2,5-Trimethylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* 1,2-Dibromo-3-chloropropane, Solid* 1,2-Dibromo-3-chloropropane, Solid* 1,2-Jichlorobenzene, Solid* 1,2,3-Trichlorobenzene, Solid*	



	CUSTOMER: SCS	Customer Date San Time San Sample N	TEST METHOD	Method	8082	9014/90108	4500PE	8330	
Job Number: 211927	Engineers, Inc.	Customer Sample ID: 105-5 Date Sampled: 09/10/2002 Time Sampled: 17:30 Sample Matrix: Soil	PARAMETER/TEST DESCRIPTION	% Solids Determination % Solids, Solid % Moisture, Solid	PCB Analysis Aroclor 1016, Solid* Aroclor 1221, Solid* Aroclor 1232, Solid* Aroclor 1242, Solid* Aroclor 1248, Solid* Aroclor 1254, Solid* Aroclor 1256, Solid*	Cyanide (Colorimetric) Cyanide, Total, Solid*	Phosphorous, All Forms Phosphorous, Total as P, Solid*	Explosives by 8330 (HPLC) HMX, Solid RDX, Solid RDX, Solid 1,3,5-Trinitrobenzene, Solid 1,3-Dinitrobenzene, Solid 1,4,6-TNT, Solid 2,4,6-TNT, Solid Tetryl, Solid 2,4-Dinitrotoluene, Solid 2,6-Dinitrotoluene, Solid	* In Description = Dry Wat
LABORATOR	PROJECT:		SAMPLE RESULT	75.7 24.3	0 N N N N N N N N N N N N N N N N N N N	QN	510	22222222	
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Date:09/26/2002	David Brewer		ВАТСН В	62415 62415	63718 63718 63718 63718 63718 63718	63170	63806	63654 63654 63654 63654 63654 63654 63654 63654 63654	_
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			PARAMETER/TEST DESCRIPTION	Solid		
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727		105.5 09/10/2002 17:30 Soil	ETER	nitroto nitroto Solid Solid Solid	Soli	** * **
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Job Number: 211927	neer	9 ×		2-Amino-4,6-Dinitrotoluene, 4-Amino-2,6-Dinitrotoluene, 2-Nitrotoluene, Solid 4-Nitrotoluene, Solid 3-Nitrotoluene, Solid	Mercury (CVAA) Solids Mercury, Solid*	Metals Analysis (ICAP Trace) Aluminum, Solid* Antimony, Solid* Arsenic, Solid* Barium, Solid* Beryllium, Solid* Cadmium, Solid* Calcium, Solid* Chomium, Solid* Cobalt, Solid* Lead, Solid* Iron, Solid* Magnesium, Solid* Magnesium, Solid* Magnesium, Solid*
do do	Engineers, Inc	Sam pleo pled atri		24-7 7-7 8-N 8-N	Mer	Metals Analys Aluminum, Sol Antimony, Sol Arsenic, Solid Barium, Solid Beryllium, Solid Calcium, Solid Chromium, Solid Cobalt, Solid* Iron, Solid* Iron, Solid* Iron, Solid* Magnesium, So Nickel, Solid Potassium, Sol
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	CUSTOMER:	O G P V	TEST METHOD		7471A	60108

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\* In Description = Dry Wgt.



	Job Number: 211927	LABORATOR	Y E S	T RESUL	<i>⟨γ</i>		Date:(	Date: 09/26/2002		To the state of th	
CUSTOMER: SCS	CUSTOMER: SCS Engineers, Inc.	PROJECT:	GSA -	SLOP			ATTN:	David Br	Вгемег		
Customer Date Sam Time Sam Sample M	Customer Sample 1D: 105-5 Date Sampled: 09/10/2002 Time Sampled: 17:30 Sample Matrix: Soil		Labor Date Time	Laboratory Sample ID: Date Received	(D: 211927-5 : 09/11/2002 : 08:45						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	TQM	K.L.	DILUTION	UNITS	ватсн	DT DATE	DATE/TIME	TECH
	Thallium, Solid* Vanadium, Solid* Zinc, Solid*	ND 26 47	5	0.57 0.18 0.35	0.87 0.44 1.7		mg/Kg mg/Kg mg/Kg	63630 63630 63630	09/23/02 09/23/02 09/23/02	02 1259 02 1259 02 1259	tds tds
	Phenol, Solid* Bis(2-chloroethyl)ether, Solid* 1,3-Dichlorobenzene, Solid* 1,4-Dichlorobenzene, Solid* 1,2-Dichlorobenzene, Solid* 1,2-Dichlorobenzene, Solid* 2-Dichlorobenzene, Solid* 2-Methylphenol (o-cresol), Solid* 2,2-oxybis (1-chloropropane), Solid* n-Nitroso-di-n-propylamine, Solid* Hexachloroethane, Solid* 2-Chlorophenol, Solid* 2-Chlorophenol, Solid* Bis(2-chloroethoxy)methane, Solid* I,2,4-Trichlorobenzene, Solid* Isophorone, Solid* Isophorone, Solid* Isophorone, Solid* Isophorone, Solid* Isophoroune, Solid* Isophorone, Solid* Isophoroune, Solid* Iso	<u> </u>		110 120 120 130 130 130 130 130 130 130 130 130 13	430 430 430 430 430 430 430 430 430 430		49/Kg 49/Kg 49/Kg 49/Kg 49/Kg 49/Kg 49/Kg 49/Kg 49/Kg 49/Kg	63720 63720 63720 63720 63720 63720 63720 63720 63720 63720 63720 63720 63720	09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02	12. 1623 12. 1623 13. 1623 13. 1623 14. 1623 15. 1623 16. 1623 17.	
	2,4,5-Trichlorophenol, Solid* 4-Chloroaniline, Solid* 2,4,6-Trichlorophenol, Solid* 2,4,5-Trichlorophenol, Solid*	29999		74 160 88 87	430 430 430 2200	1.00000	ng/Kg ng/Kg ng/Kg	63720 63720 63720 63720	09/24/02 09/24/02 09/24/02 09/24/03		<del>\$</del>
	* In Description = Dry Wgt.		Page 32								

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CUSTOMER: SCS	Engineers, Inc.	PROJECT	: GSA - SL				ATTA	David Brewer	199	
				SLOP						
Custome Date Sa Time Sa Sample	Customer Sample ID: 105-5 Date Sampled: 09/10/2002 Time Sampled: 17:30 Sample Matrix: Soil		Labor Date Time	atory Sampl Received Received	e ID: 211927-5 : 09/11/2002 : 08:45					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	O FLAGS	<b>WOL</b>	N.	DILUTION	UNITS	ватсн рт	DATE/TIME	TECH
	Solid*	ND	Э	160	430	1.00000	ug/Kg	63720	09/24/02 16	1623 dpk
	olid*	9 9	<b>¬</b> :	310	430	1.00000	ug/Kg	63720	•	
	Z-Nitroanline, solia*	⊋ ⊊	<b>&gt;</b> =	071	027	1.00000	19/Kg	65720	09/24/02 16	1625 apk
	ol id*	2 9	) J	110	430	1.00000	ug/kg ug/Ka	63720	•	623 dpk
		Q.		100	430	1.00000	ug/Kg	63720	•	
		QN	<b>D</b>	100	430	1.00000	ug/Kg	63720	_	
	S-Nitroaniline, Solid*	2 2	<b>5</b> =	180 97	2200	1.00000	ug/Kg	63720	09/24/02 16	1623 dpk
		0 Q	0 0	260	2200	1.00000	ug/Ka	63720		1623 dpk
	*o	Q.		71	430	1.00000	ug/Kg	63720	•	
	Solid*	•	<b>-</b>	%	430	1.00000	ug/Kg	63720		
	Acenaparanene, solid*	<u>5</u> &	- ·	9 7	054 027	1,00000	ug/Kg	65720	09/24/02 16	1623 apk
	Solid*	CN CN	, 5	470	2200	1.00000	ug/Kg	63720		
		200		130	430	1.00000	ug/Kg	63720	<b>~</b>	,
	<del>1</del>	2 9	⇒ :	180	2200	1.00000	ug/Kg	63720		1623 dpk
	4-brownopnenyl pnenyl ether, solid=   Hexachlorobenzene, Solid*	⊋ ⊊	<b>&gt;</b> =	₹8	D\$7	1.00000	ug/Kg ug/Ka	02720	09/24/02 16	023 dp
		9	· =	120	430	1.00000	ug/Kg	63720		623 dpk
	er, Solid*	Ð	<b>-</b>	110	430	1.00000	ug/Kg	63720	-	
	1	2 :	<b></b>	240	2200	1.00000	ug/Kg	63720	d-m ,	
	n-nitrosodipheny(amine, solid.  / A.himitro-2_mothy/pheno  Solid*	⊋ ⊊	<b>D</b> =	140	054	1.00000	ug/Kg	63720	09/24/02 16	623 dpk
	Phenanthrene. Solid*	1700	)	<u> </u>	430	00000	23/Kg	63720		3 6
	Anthracene, Solid*	330	,	32	430	1,00000	ug/Kg	63720		1623 dpk
	Carbazole, Solid*	160		110	730	1.00000	ug/Kg	63720		
	phthalate, Solid*	NO ON	<u></u>	93	430	1.00000	ug/Kg	63720		
	Benzidine, Solid*	S S	*	2600	4300	1.00000	ug/Kg	63720	09/24/02 16	23.
	Angel									



	Job Number: 211927	LABORATOR	YTES	T RESUL	<b>S</b> ⊨-		Date:C	Date:09/26/2002	5		
CUSTOMER: SCS Engineers,	Engineers, Inc.	PROJECT	: GSA -	dOTS			ATTN:	David Brewer	гежег		
Custome Date Sar Time Sar Sample N	Customer Sample ID: 105-5 Date Sampled: 09/10/2002 Time Sampled: 17:30 Sample Matrix: Soil		Labor Date Time	Laboratory Sample ID: Date Received Time Received	ID: 211927-5 09/11/2002 : 08:45						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	a FLAGS	TOW	R	DILUTION	UNITS	ВАТСН	DT DATE	DATE/TIME	TECH
8260B	Fluoranthene, Solid* Pyrene, Solid* Butyi benzyl phthalate, Solid* Benzo(a)anthracene, Solid* Chrysene, Solid* 3,3-Dichlorobenzidine, Solid* Bis(2-ethylhexyl)phthalate, Solid* Di-n-octyl phthalate, Solid* Benzo(b)fluoranthene, Solid* Benzo(b)fluoranthene, Solid* Benzo(b)fluoranthene, Solid* Benzo(b)pyrene, Solid* Indeno(1,2,3-cd)pyrene, Solid* Dibenzo(a,1)anthracene, Solid* Benzo(a,1)anthracene, Solid* Benzo(d,1)perylene, Solid* Volatile Organics Dichlorodifluoromethane, Solid* Winyl chloride, Solid* Semomethane, Solid* Irichlorothene, Solid* Chlorothene, Solid* Acetone, Solid* Acetone, Solid* Methylene chloride, Solid* Methylene chloride, Solid* Methylene chloride, Solid* Methylene Chloroethene, Solid* Methylene Solid*	ND 770 ND 770 ND ND ND 730 ND	* בככב ככככ כ	120 69 69 69 52 150 150 150 150 175 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	430 430 430 430 430 430 430 430 430 430	1.00000 1.00000	63/6n 63/6n	63720 63720	09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02	02 1623 02 162	<del>\$\$\$\$\$\$\$\$\$\$\$\$\$\$</del> \$
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Chartener Sample and 19:15   Chartener Samp		Job Number: 211927	ABORATORY	TE	ST RESUL	S L		Date:0	Date:09/26/2002	2		
Partial Control Cont	CUSTOMER: SCS	Engineers,		GSA -	11.09			ATTN:	avid	rewer		
PARAMETER/IESI DESCRIPTION   SAMPLE RESULT   0 F.LAGS   NOL   RL	Custome: Date San Time San Sample P	<b># " " "</b>		, , , , , , , , , , , , , , , , , , ,	atory Sampl Received Received							
ND	TEST METHOD	PARAMETER/TEST DESCRIPTION	E RESULT	<del></del>	Jaw		DICUTION	CNITS	ВАТСН		:/TIME	TECH
NO		2,2-Dichloropropane, Solid*		n	1.5	5.6	1.00000	ug/Kg	63482	09/19	1	<u> </u>
NO		cis-1,2-Dichloroethene, Solid*		<b>_</b>	200	5.6	1.00000	ug/Kg	63482	09/19		
NO		Sromochloromethane, Solid*		<b>5</b> 5	÷ -	0.00	1.00000	ug/kg ug/Ka	63482	09/19		
ND		Chloroform, Solid*		<u> </u>	0.70	5.6	1.00000	ug/Kg	63482	09/19		
MD		1,1,1-Trichloroethane, Solid*		<b>¬</b> :	0.68	5.6	1.00000	ug/Kg	63482	09/19		
ND		1,1-Dichloropropene, Solid* Carbon tetrachloride, Solid*		<del>-</del>	0.00	9,4	1,00000	ug/Kg	63482	09/19		
ND		Benzene, Solid*			0.74	2.6	1.00000	ug/Kg ug/Kg	63482	09/19		
ND		1,2-Dichloroethane, Solid*		n	0.65	5.6	1.00000	ug/Kg	63482	09/19		
Name		Trichloroethene, Solid*		<b></b> ;	99.0	9,0	1.00000	ug/Kg	63482	09/19		
ND		Dibromomethane, Solid*		<b>5</b> 33	0.77	0 40	1.00000	ug/kg ug/ka	63482	06//60		
d*         ND         U         0.89         5.6         1.00000         ug/kg         65482         09/19/02 1325           d*         ND         U         3.4         5.6         1.00000         ug/kg         65482         09/19/02 1325           ND         U         0.94         5.6         1.00000         ug/kg         65482         09/19/02 1325           ND         U         0.75         5.6         1.00000         ug/kg         65482         09/19/02 1325           ND         U         0.75         5.6         1.00000         ug/kg         65482         09/19/02 1325           ND         U         0.77         5.6         1.00000         ug/kg         65482         09/19/02 1325           ND         U         1.0         5.6         1.00000         ug/kg         65482         09/19/02 1325           ND         U         1.0         5.6         1.00000         ug/kg         65482         09/19/02 1325           ND         U         *         0.77         5.6         1.00000         ug/kg         65482         09/19/02 1325           ND         U         *         0.85         5.6         1.00000         ug/kg		Bromodichloromethane, Solid*		n	0.76	5.6	1.00000	ug/Kg	63482	09/19		
No		cis-1,3-Dichloropropene, Solid*		<b>a</b> :	0.89	10° 1	1.00000	ug/Kg	63482	09/19		.,
ND		4-metnyt-z-pentanone (Mibk), sotia, Toluene. Solid*		o 22	4.4	0.50	1.00000	ug/Kg ug/Ka	63482	06/16		
Solid* ND U 0.80 5.6 1.00000 ug/Kg 63482 09/19/02 1325 id* ND U 0.75 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 1.0 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 1.9 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 0 0.85 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 0 0.85 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 1.0 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 1.0 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 1.0 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 2.4 11 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 2.4 11 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 2.4 11 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 2.4 11 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 2.4 11 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 1.0 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 2.4 11 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 1.0 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 2.4 11 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 2.4 11 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 1.0 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 1.0 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 1.0 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 1.0 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 1.0 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 1.0 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 1.0 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 1.0 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 1.0 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 1.0 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 1.0 5.6 1.00000 ug/Kg 63482 09/19/02 1325 iolid* ND U 1.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	*****	trans-1,3-Dichloropropene, Solid*			0.94	5.6	1.00000	ug/Kg	63482	61/60		
No.   U		1,1,2-Trichloroethane, Solid*		<b>=</b> :	0.80	9.5	1.00000	ug/Kg	63482	09/19		
Solid* ND U * 0.77 5.6 1.00000 UG/Kg 63482 09/19/02 1325 ND U * 0.77 5.6 1.00000 UG/Kg 63482 09/19/02 1325 ND U * 0.85 5.6 1.00000 UG/Kg 63482 09/19/02 1325 ND U * 0.85 5.6 1.00000 UG/Kg 63482 09/19/02 1325 ane, Solid* ND U * 0.82 5.6 1.00000 UG/Kg 63482 09/19/02 1325 ND U * 1.2 5.6 1.00000 UG/Kg 63482 09/19/02 1325 ND U * 2.4 11 1.00000 UG/Kg 63482 09/19/02 1325 ND U * 2.4 11 1.00000 UG/Kg 63482 09/19/02 1325 ND U * 5.6 1.00000 UG/Kg 63482 09/19/02 1325		letrachioroethene, solia. 1.3-Dichloropropane. Solia*		<b>5</b> 5	1.0	9, 6	1.00000	ug/Kg ug/Kg	63482	09/19/		
Solid* ND U * 0.77 5.6 1.00000 Ug/Kg 63482 09/19/02 1325 ), Solid* ND U 0.85 5.6 1.00000 Ug/Kg 63482 09/19/02 1325 ane, Solid* ND U 0.82 5.6 1.00000 Ug/Kg 63482 09/19/02 1325 ane, Solid* ND U 1.2 5.6 1.00000 Ug/Kg 63482 09/19/02 1325  ND U 1.2 5.6 1.00000 Ug/Kg 63482 09/19/02 1325  ND U 1.2 5.6 1.00000 Ug/Kg 63482 09/19/02 1325  ND U 1.2 5.6 1.00000 Ug/Kg 63482 09/19/02 1325  ND U 1.0 5.6 1.00000 Ug/Kg 63482 09/19/02 1325		2-Hexanone, Solid*			6.1	5.6	1.00000	ug/Kg	63482	09/19		
B), Solid* ND U 0.85 5.6 1.00000 ug/Kg 63482 09/19/02 1325		Dibromochloromethane, Solid*			0.77	5.6	1,00000	ug/Kg	63482	09/19		
ND U * 0.82 5.6 1.00000 Ug/Kg 63482 09/19/02 1325 09/1		1,2-Dibromoethane (EDB), Solid*		<b>)</b>	0.85	5.6	1.00000	ug/Kg	63482	09/19/		
ND U 1.2 5.6 1.00000 ug/kg 63482 09/19/02 1325 09/19/02 14/02		1.1.2-Tetrach oroethane   Solid*			- c	0 4	1,00000	U9/ Kg	70400	09/19/		
ND U 2.4 11 1.00000 ug/Kg 63482 09/19/02 1325 ND U 1.0 5.6 1.00000 ug/Kg 63482 09/19/02 1325	*******	Ethylbenzene, Solid*		) <u>)</u>	1.2	5.6	1.00000	ug/Kg	63482	09/19		
ND U 1.0 5.6 1.00000 ug/Kg 63482 09/19/02 1325		m&p-Xylenes, Solid*		n	2.4	1	1.00000	ug/Kg	63482	09/19		
		o-Xylene, Solid*		<u></u>	1.0		1.00000	ug/Kg	63482	09/19,		
										•••••		



	Job Number: 211927	ABORATORY	E S	T RESUL	S L		Date:0	Date:09/26/2002			
CUSTOMER: SCS Engineers,	Engineers, Thc.	PROJECT:	GSA - SLOP				ATTN:	David Bre	Вгемег		
Customer Date Sam Time Sam Sample M	Customer Sample ID: 105-5 Date Sampled: 09/10/2002 Time Sampled: 17:30 Sample Matrix: Soil		Labor Date Time	Laboratory Sample ID: Date Received	ID: 211927-5 : 09/11/2002 : 08:45						
TEST METHOD	Styrene, Solid* Bromoform, Solid* Bromoform, Solid* Isopropylbenzene, Solid* 1,1,2,2-Tetrachloroethane, Solid* 1,2,3-Trichloropropane, Solid* 1,2,3-Trimethylbenzene, Solid* 1,3,5-Trimethylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* 1,2,4-Trimethylbenzene, Solid* 1,2-Dibromo-3-chloropropane, Solid* 1,2-Dibromo-3-chloropropane, Solid* 1,2-Dibromo-3-chloropropane, Solid* 1,2-Dibromo-3-chloropropane, Solid* 1,2-Dibromo-3-chloropropane, Solid* 1,2,3-Trichlorobenzene, Solid*	SAMPLE RESULT  ND  ND  ND  ND  ND  ND  ND  ND  ND  N	FLAGS.	MDL. 1.1 1.0 0.84 0.72 1.1 1.1 0.65 0.86 0.86 0.92 0.92 0.92 0.91 1.2 1.2	្អី	DILUTION 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	NN 118 10 / Kg 10 /	BATCH D 63482	DATE/TIME 09/19/02 13 09/19/02 13 09/19/02 13 09/19/02 13 09/19/02 13 09/19/02 13 09/19/02 13 09/19/02 13 09/19/02 13 09/19/02 13 09/19/02 13 09/19/02 13	1325 1325 1325 1325 1325 1325 1325 1325	S C C C C C C C C C C C C C C C C C C C

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	L Job Number: 211927	ABORATORY	T E S	T RESUL	1 S		Date:0	Date:09/26/2002		
CUSTOMER: SCS	SCS Engineers, Inc.	PROJECT:	GSA - SLOP	ОР			ATTN:	David Bre	Вгемег	
Customer Date San Time San Sample M	Customer Sample ID: 101-1 Date Sampled: 09/10/2002 Time Sampled: 18:25 Sample Matrix: Soil		Labor Date Time	Laboratory Sample ID: Date Received: Time Received:	ID: 211927-6 : 09/11/2002 : 08:45					
TEST METHOD	PARAMETER/TEST_DESCRIPTION	SAMPLE RESULT	Q FLAGS	JQM	ă	DILUTION	UNITS	ВАТСН D	DT DATE/TIME	IME TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	9.06 9.6		0.10	0.10		%	62415 62415	09/12/02 09/12/02	0008 c1b 0008 c1b
8082	PCB Analysis Aroclor 1016, Solid* Aroclor 1221, Solid* Aroclor 1232, Solid* Aroclor 1242, Solid* Aroclor 1248, Solid* Aroclor 1254, Solid* Aroclor 1256, Solid*	2 Q Q Q Q Q	22222	25.58 25.58 25.05 25.05 25.05	\$5 \$5 \$5 \$5 \$5	1.00000 1.00000 1.00000 1.00000 1.00000	18/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg	63718 63718 63718 63718 63718 63718	09/25/02 09/25/02 09/25/02 09/25/02 09/25/02 09/25/02	0325 mgk 0325 mgk 0325 mgk 0325 mgk 0325 mgk 0325 mgk
8330	Explosives by 8330 (HPLC) HMX, Solid RDX, Solid 1,3,5-Trinitrobenzene, Solid 1,3-Dinitrobenzene, Solid 1,3-Dinitrobenzene, Solid 1,4,6-TNI, Solid 2,4,6-TNI, Solid 2,4-Dinitrotoluene, Solid 2,6-Dinitrotoluene, Solid 2-Amino-4,6-Dinitrotoluene, Solid 2-Nitrotoluene, Solid 4-Nitrotoluene, Solid 3-Nitrotoluene, Solid	22222222		10 58 33 33 34 35 35 36 56 57 50 50 50 50 50 50 50 50 50 50 50 50 50	550 500 500 500 500 500 500 500 500 500	1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	18/Kg 18/Kg 18/Kg 18/Kg 18/Kg 18/Kg 18/Kg 18/Kg 18/Kg 18/Kg 18/Kg 18/Kg 18/Kg 18/Kg	63654 63654 63654 63654 63654 63654 63654 63654 63654 63654 63654 63654 63654	09/18/02 09/18/02 09/18/02 09/18/02 09/18/02 09/18/02 09/18/02 09/18/02 09/18/02 09/18/02 09/18/02	0737 san 0737 san 0737 san 0737 san 0737 san 0737 san 0737 san 0737 san 0737 san 0737 san
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\* in Description = Dry Wgt.



	Job Number: 211927	ABORATORY	E S	T RESUL	S +	***************************************	Date:09	Date:09/26/2002		
CUSTOMER: SCS Engineers,	Engineers, Inc.	PROJECT:	GSA - SLOP	<b>G</b> C			ATTN:	David Brewer	Wer	
Custome: Date Sar Time Sar Sample N	Customer Sample ID: 101-1 Date Sampled: 09/10/2002 Time Sampled: 18:25 Sample Matrix: Soil		Labo Date Time	Laboratory Sample ID: Date Received: Time Received:	(D: 211927-6 : 09/11/2002 : 08:45					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	TQW	R.	DILUTION	UNITS	BATCH DT	T DATE/TIME	ME TECH
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.053		0,0060	0.037		mg/Kg	63552	09/23/02 1230	1230 gok
6010B	Metals Analysis (ICAP Trace) Aluminum, Solid* Ansenic, Solid* Arsenic, Solid* Barium, Solid* Beryllium, Solid* Calcium, Solid* Chomium, Solid* Calcium, Solid* Chomium, Solid* Calcium, Solid* Coper, Solid* Copper, Solid* Iron, Solid* Iron, Solid* Magnesium, Solid* Nickel, Solid* Nickel, Solid* Solid* Notkel, Solid* Notkel, Solid*	15000 ND 9.1 150 0.43 0.19 3200 18 18 18 18 18 19 1400 ND 230 ND 230 ND 230	ב ככ	1.7 0.63 0.36 0.11 0.031 0.056 0.058 0.63 0.091 0.18 0.28 0.28 0.28 0.28 0.28	14. 1.4. 0.70 0.70 0.70 0.35 0.70 0.70 0.70 0.70 0.70 0.70 0.35 1.4.	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630	09/23/05 09/23/05 09/23/05 09/23/05 09/23/05 09/23/05 09/23/05 09/23/05 09/23/05 09/23/05 09/23/05 09/23/05 09/23/05 09/23/05 09/23/05	1305 tds 205 t

\* In Description = Dry Wgt.

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24.0	250C)			
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S Date:09/26/2002 ATTM: David Brewer	211927-7 09/11/2002 08:45	RL DILUTION UNITS BATCH DT DATE/TIME TECH	0.10 1 % 62415 09/12/02 0008 clb 0.10 1 % 62415 09/12/02 0008 clb	19         1.00000         ug/kg         63718         09/25/02 0357 mgk           19         1.00000         ug/kg         63718         09/25/02 0357 mgk	250 1.00000 ug/kg 63654 09/18/02 0842 san 1.00000 ug/kg 635654 09/18/02 0842 san 1.00000 ug/kg 63554 09/18/02 0842 san 200 11.00000 ug/kg 63554 09/18/02 0842 san 200 20000 ug/kg 63554 09/18/02 0842 san 200 ug/kg 63554 09/18/02 0842 san 200 20000 ug/kg 63554 09/18/02 0842 san 200 200000 ug/kg 63554 09/18/02 0842 san 200 20000 ug/kg 63554 09/18/02 0842 san 200 20000 ug/kg 63554 09/18/02 0842 san 200 20000 ug/kg	
LABORATORY TEST RESULTS PROJECT: GSA - SLOP	Laboratory Sample ID: 3 Date Received	SAMPLE RESULT   Q FLAGS   MDL	89.1 10.9 0.10	ND ND U U 3.2 ND U U 3.4 ND U U 3.4 ND U U 7.5 ND U U 2.6 ND U U 2.6 ND U U 2.6	ND ND U U 58 ND ND U U 17 ND	Page 39
Job Number: 211927 CUSTOMER: SCS Engineers, Inc.	Customer Sample ID: 101-2 Date Sampled: 09/10/2002 Time Sampled: 18:30 Sample Matrix: Soil	TEST METHOD PARAMETER/TEST DESCRIPTION	Method % Solids Determination % Solids, Solid % Moisture, Solid	BOB2 PCB Analysis Aroclor 1016, Solid* Aroclor 1221, Solid* Aroclor 1232, Solid* Aroclor 1242, Solid* Aroclor 1248, Solid* Aroclor 1256, Solid* Aroclor 1256, Solid*	Explosives by 8330 (HPLC) HMX, Solid RDX, Solid 1,3,5 Trinitrobenzene, Solid 1,3-Dinitrobenzene, Solid 1,4,6-TNT, Solid 2,4,6-TNT, Solid 2,4,6-TNT, Solid 2,4-Dinitrotoluene, Solid 2,5-Dinitrotoluene, Solid 2,6-Dinitrotoluene, Solid 2-Amino-2,6-Dinitrotoluene, Solid 4-Amino-2,6-Dinitrotoluene, Solid 5-Nitrotoluene, Solid 4-Nitrotoluene, Solid 5-Nitrotoluene, Solid 5-Nitrotoluene, Solid 5-Nitrotoluene, Solid	* In Description = Dry Wgt.

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	Job Number: 211927	. A B O R A T O R Y	⊢ Ω	RESULTS			Date:09	Date:09/26/2002		
CUSTOMER: SCS	SCS Engineers, Inc.	PROJECT: G	GSA - SLOP				ATIN	David Brewer	er L	
Customer Date Sar Time Sar Sample P	Customer Sample ID: 101-2 Date Sampled: 09/10/2002 Time Sampled: 18:30 Sample Matrix: Soil		Laborator Date Rece Time Rece	Laboratory Sample ID: Date Received: Time Received:	211927-7 09/11/2002 08:45					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT Q	FLAGS	NO.	T <sub>A</sub>	DILUTION	UNITS	ватсн рт	DATE/TIME	TECH
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.038		0.0061	0.037		mg/Kg	63552	09/23/02 1232	52 gok
9010B	Metals Analysis (ICAP Trace) Aluminum, Solid* Ansenic, Solid* Barium, Solid* Barium, Solid* Cadeium, Solid* Catcium, Solid* Chromium, Solid* Chromium, Solid* Copper, Solid* Iron, Solid* Iron, Solid* Maganese, Solid* Manganese, Solid* Nickel, Solid* Nickel, Solid* Nickel, Solid* Nickel, Solid* Nickel, Solid* Nanganese, Solid* Nickel, Solid* Nickel, Solid* Solid* Sodium, Solid* Thallium, Solid* Vanadium, Solid* Zinc, Solid*	13000 ND 8.5 140 0.44 0.20 4800 19 17 18000 25 2900 750 750 750 1300 ND 840 U		0.62 0.35 0.35 0.11 0.030 0.030 0.030 0.030 0.15 0.28 0.28 0.28	1,4 1,4 0,69 0,69 0,69 0,69 0,69 0,69 0,69 0,69 0,69 0,69 0,69 1,4		### ### ### ### ### ### ### ### ### ##	63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630	09/23/02 13/09/22/02 13/09/22/02 13/09/22/02 13/09/22/02 13/09/22/	1312 tds 1312 tds 131



	L Job Number: 211927	ABORATORY	T E S	T RESUL	S F		Date:0	Date: 09/26/2002			
CUSTOMER: SCS Engineers,	lineers, Inc.	PROJECTS	GSA - SLOP	96			ATTN:	David Brewer	јеме.		
Customer Sample ID: Date Sampled Time Sampled	mple ID: 101-3 cd: 09/10/2002 cd: 18:40 ix: Soil		Labo Dato Tim	Laboratory Sample ID: Date Received: Time Received:	ID: 211927-8 : 09/11/2002 : 08:45						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	lox	۵.	DII.UTIO	UNITS	ВАТСН	0 10	DATE/TIME	TECH
Method %	Solids Determination Solids, Solid Moisture, Solid	95.0		0.10	0.10		26 26	62415 62415	/60	09/12/02 0008 clb	08 clb
7471A Me	Mercury (CVAA) Solids Mercury, Solid*	0.038		0.0057	0.035	<b>2</b>	mg/Kg	63552	/60	09/23/02 1235 gok	35 gok
A A T T T T T T T T T T T T T T T T T T	Metals Analysis (ICAP Trace) Aluminum, Solid* Antimony, Solid* Arsenic, Solid* Barium, Solid* Cadmium, Solid* Cadmium, Solid* Calcium, Solid* Chromium, Solid* Chromium, Solid* Chromium, Solid* Chromium, Solid* Cobalt, Solid* Iron, Solid* Manganese, Solid* Manganese, Solid* Nickel, Solid*	9900 10 130 0.51 0.51 0.53 11000 21 6.9 16 17000 25 4200 530 1100 ND 630 U U U	2 22 2	1.6 0.60 0.34 0.029 0.053 0.053 0.086 0.17 0.17 0.26 0.26 0.27 0.26 0.27 0.26	13 1.3 0.66 0.66 0.66 0.66 0.66 0.66 0.66 0.	6m km km km 4m fm fm fm	### ### ##############################	63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630 63630	66 66 66 66 66 66 66 66 66 66 66 66 66	09/23/02 13 09/23/02 13	318   148

\* In Description = Dry Wgt.



LABORATORY TEST RESULTS Date:09/26/2002	PROJECT: GSA - SLOP Laboratory Sample ID: 211927-8 Date Received: 09/11/2002 Time Received: 08:45	TION SAMPLE RESULT & FLAGS MOL RL DILUTION UNITS BATCH DT DATE/TIME TECH	54 0.26 1.3 1 mg/Kg 63630 09/23/02 1318 tds	Page 42
B O R	CUSTOMER: SCS Engineers, inc.  Customer Sample ID: 101-3  Date Sampled: 09/10/2002  Time Sampled: 18:40  Sample Matrix: Soil	TEST METHOD PARAMETER/TEST DESCRIPTION SAMPLE RE	Zinc, Solid* 54	* In Description = Dry Wgt.



LABORATORY TEST RESULTS  Date:09/26/2002  PROJECT: GSA - SLOP	Laboratory Sample ID: 211927-9 Date Received: 09/11/2002 Time Received: 08:45	TION SAMPLE RESULT & FLAGS MDL RL DILUTION UNITS BATCH DT DATE/TIME TECH	91.5 0.10 0.10 1 % 62415 09/12/02 0008 clb 8.5 0.10 0.10 1 % 62415 09/12/02 0008 clb	0.089 0.036 1 mg/Kg 63552 09/23/02 1237 gok	i .	0.099 0.35 1 mg/kg 63630 09/23/02 0.64 0.71 1 mg/kg 63630 09/23/02 0.51 3.5 1 mg/kg 63630 09/23/02 0.30 0.30 0.35 1 mg/kg 63630 09/23/02 0.092 0.092 0.71 1 mg/kg 63630 09/23/02 0.18 35 1 mg/kg 63630 09/23/02 0.28 0.71 1 mg/kg 63630 09/23/02 0.028 0.71 1 mg/kg 63630 09/23/02 0.022 0.35 1 mg/kg 63630 09/23/02 0.047 0.71 1 mg/kg 63630 09/23/02 0.015 0.35 1 mg/kg 63630 09/23/02 0.015 0.35 1 mg/kg 63630 09/23/02	
Job Number: 211927 Engineers, Inc.	Customer Sample ID: 101-4 Date Sampled: 09/10/2002 Time Sampled: 18:50 Sample Matrix: Soil	PARAMETER/TEST DESCRIPTION	% Solids Determination % Solids, Solid % Moisture, Solid	Mercury (CVAA) Solids Mercury, Solid*	Metals Analysis (ICAP Trace) Aluminum, Solid* Antimony, Solid* Arsenic, Solid* Barium, Solid* Beryllium, Solid* Cadmium, Solid* Calcium, Solid*	Cobalt, Solid* Copper, Solid* Iron, Solid* Lead, Solid* Magnesium, Solid* Mickel, Solid* Nickel, Solid* Potassium, Solid* Selenium, Solid* Silver, Solid* Sodium, Solid* Thallium, Solid*	
Job Number: 21 CUSTOMER: SCS Engineers, Inc	Customer Date Sam Time Sam Sample Ma	TEST METHOD	Method	7471A	60108		

\* In Description = Dry Wgt.



Job	LABORATO Number: 211927	) R Y C H	RONI		09/26/2002		
CUSTOMER: SCS Eng	ineers, Inc. PRO	JECT: GSA -	SLOP		ATTN: David Brew	ier	
Lab ID: 211927-1	Client ID: 105-1		ecvd: 09/	11/2002 Sample	Date: 09/10/200	2	The state of the s
METHOD	DESCRIPTION			PREP BT #(S)	DATE/TIME ANA		DILUTION
Method	% Solids Determination	1	62415			8000	
5035	5035 Archon Closed Purge & Trap	1	63292			1159	
5035	5035 Preservation High (Methanol)	1	63412		09/11/2002	2259	
5035	5035 Preservation Low	1	63411		09/11/2002	2259	
8330	8330 Extraction (Explosives)	1	62869		09/16/2002	2130	
3050B	Acid Digestion: Solids (ICAP)	1	62896	/7470	09/17/2002	0935	
9014/9010B	Cyanide (Colorimetric)	1	63170	63170	09/18/2002	1443	
EDD 8330	Electronic Data Deliverable	1	47451	43040	00/17/2002	2770	4 00000
35508	Explosives by 8330 (HPLC) Extraction Ultrasonic (PCBs)	1 1	63654 62701	62869	09/17/2002	2330 0830	1.00000
3550B	Extraction Ultrasonic (SVOC)	1	62700		09/14/2002	0815	
7471A	Mercury (CVAA) Solids	1	63552	63433	09/14/2002 09/23/2002	1210	
6010B	Metals Analysis (ICAP Trace)	i	63630	62896	09/23/2002	1151	
6010B	Metals Analysis (ICAP Trace)	i	63672	62896	09/24/2002	1146	
8082	PCB Analysis	1	63718	62701	09/24/2002	2304	1.00000
4500PE	Phosphorous, All Forms	1	63806	63806	09/25/2002	1617	10.00
7470/7471	SW846 Digestion (Hg)	1	63433	03000	09/23/2002	1045	10.00
8270C	Semivolatile Organics	ì	63720	62700	09/21/2002	0010	1.00000
8260B	Volatile Organics	1	63482	63411 -63292	09/19/2002	1159	1.00000
	, , , , , , , , , , , , , , , , , , ,	,	00.00	00111	0,, 1,, 2002	, , , ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Lab ID: 211927-2	Client ID: 105-2	Date R	ecvd: 09/	11/2002 Sample	Date: 09/10/200	12	
METHOD	DESCRIPTION	RUN#		PREP BT #(S)	DATE/TIME ANA		DILUTION
Method	% Solids Determination	1	62415		09/12/2002	8000	
5035	5035 Archon Closed Purge & Trap	1	63292		09/19/2002	1102	
5035	5035 Preservation High (Methanol)	1	63412		09/11/2002	2301	
5035	5035 Preservation Low	1	63411		09/11/2002	2301	
8330	8330 Extraction (Explosives)	1	62869		09/16/2002	2130	
3050B	Acid Digestion: Solids (ICAP)	1	62896		09/17/2002	0935	
9014/9010B	Cyanide (Colorimetric)	1	63170	63170	09/18/2002	1444	
8330	Explosives by 8330 (HPLC)	1	63654	62869		0245	1.00000
3550B	Extraction Ultrasonic (PCBs)	1	62701		09/14/2002	0830	
3550B	Extraction Ultrasonic (SVOC)	1	62700		09/14/2002	0815	
7471A	Mercury (CVAA) Solids	1	63552	63433	09/23/2002	1221	
6010B	Metals Analysis (ICAP Trace)	1	63630	62896	09/23/2002	1222	
6010B	Metals Analysis (ICAP Trace)	1	63672	62896	09/24/2002	1219	
8082	PCB Analysis	1	63718	62701	09/25/2002	0041	1.00000
4500PE	Phosphorous, All Forms	1	63806	63806	09/25/2002	1617	20.00
7470/7471 8270c	SW846 Digestion (Hg) Semivolatile Organics	1	63433 63720	42700	09/23/2002 09/21/2002	1045	4 00000
8260B	Volatile Organics	1	63482	62700 63411 -63292	09/19/2002	0042 1102	1.00000 1.00000
OZOUB	votatite organics	ı	03402	03411 -03292	09/19/2002	1102	1.00000
Lab ID: 211927-3	Client ID: 105-3	Date R	ecvd: 09/	11/2002 Sample	Date: 09/10/200	12	
METHOD	DESCRIPTION	RUN#		PREP BT #(S)	DATE/TIME ANA		DILUTION
Method	% Solids Determination	1	62415		09/12/2002	0008	D
5035	5035 Archon Closed Purge & Trap	1	63292		09/19/2002	1227	
5035	5035 Preservation High (Methanol)	1	63412			2303	
5035	5035 Preservation Low	1	63411			2303	
8330	8330 Extraction (Explosives)	1	62869			2130	
3050B	Acid Digestion: Solids (ICAP)	1	62896		09/17/2002	0935	
9014/9010B	Cyanide (Colorimetric)	1	63170	63170	09/18/2002	1444	
8330	Explosives by 8330 (HPLC)	1	63654	62869	09/18/2002	0422	1.00000
3550B	Extraction Ultrasonic (PCBs)	1	62701		09/14/2002	0830	
3550B	Extraction Ultrasonic (SVOC)	1	62700		09/14/2002	0815	
3550B	Extraction Ultrasonic (SVOC)	2	63295			0815	
7471A	Mercury (CVAA) Solids	1	63552	63433	09/23/2002	1223	



LABORATORY CHRONICLE

Job Number: 211927 Date: 09/26/2002

CUSTOMER: SCS Eng	ineers, Inc. PR	OJECT: GSA -	SLOP		ATTN: David Bre	wer	
ab ID: 211927-3	Client ID: 105-3	Date Re	cvd: 09/	11/2002 Sample	Date: 09/10/20	02	
METHOD	DESCRIPTION	RUN#		PREP BT #(S)	DATE/TIME AN		DILUTION
6010B	Metals Analysis (ICAP Trace)	1	63630	62896	09/23/2002	1228	
6010B	Metals Analysis (ICAP Trace)	1	63672	62896	09/24/2002	1225	
8082	PCB Analysis	1	63718	62701	09/25/2002	0114	1.00000
4500PE	Phosphorous, All Forms	i	63806	63806	09/25/2002	1618	10.00
7470/7471	SW846 Digestion (Hg)	1	63433	03000	09/23/2002	1045	10.00
		i	63721	63295		2233	1 00000
8270C	Semivolatile Organics				09/20/2002		1.00000
8270C	Semivolatile Organics	1	63721	63295	09/24/2002	1518	4.00000
8260B	Volatile Organics	1	63482	63411 -63292	09/19/2002	1227	1.00000
ab ID: 211927-4	Client ID: 105-4		cvd: 09/		Date: 09/10/20		
METHOD	DESCRIPTION	RUN#		PREP BT #(S)	DATE/TIME AN		DILUTIO
Method	% Solids Determination	1	62415		09/12/2002	8000	
5035	5035 Archon Closed Purge & Trap	1	63292		09/19/2002	1130	
5035	5035 Preservation High (Methanol)	1	63412		09/11/2002	2306	
5035	5035 Preservation Low	1	63411		09/11/2002	2305	
8330	8330 Extraction (Explosives)	1	62869		09/16/2002	2130	
3050B	Acid Digestion: Solids (ICAP)	1	62896		09/17/2002	0935	
9014/9010B	Cyanide (Colorimetric)	1	63170	63170	09/18/2002	1444	
8330	Explosives by 8330 (HPLC)	1	63654	62869	09/18/2002	0527	1,00000
3550B	Extraction Ultrasonic (PCBs)	<u>i</u>	62701	02007	09/14/2002	0830	1.00000
3550B	Extraction Ultrasonic (SVOC)	i	62700		09/14/2002	0815	
7471A	Mercury (CVAA) Solids	i	63552	63433	09/23/2002	1226	
6010B	Metals Analysis (ICAP Trace)	1	63630	62896	09/23/2002	1234	
6010B	Metals Analysis (ICAP Trace)	1	63672	62896	09/24/2002	1231	
8082	PCB Analysis	1	63718	62701	09/25/2002	0147	1.00000
4500PE	Phosphorous, All Forms	1	63806	63806	09/25/2002	1618	20.00
7470/7471	SW846 Digestion (Hg)	1	63433		09/23/2002	1045	
8270C	Semivolatile Organics	1	63720	62700	09/24/2002	1551	1.00000
8260B	Volatile Organics	1	63482	63411 -63292	09/19/2002	1130	1.00000
ab ID: 211927-5	Client ID: 105-5	Date Re	cvd: 09/	11/2002 Sample	Date: 09/10/20	02	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME AN	ALYZED	DILUTIO
Method	% Solids Determination	1	62415		09/12/2002	8000	
5035	5035 Archon Closed Purge & Trap	1	63292		09/19/2002	1325	
5035	5035 Preservation High (Methanol)	1	63412		09/11/2002	2308	
5035	5035 Preservation Low	i	63411		09/11/2002	2306	
8330	8330 Extraction (Explosives)	į	62869		09/16/2002	2130	
3050B	Acid Digestion: Solids (ICAP)	i	62896		09/17/2002	0935	
9014/9010B	Cyanide (Colorimetric)	i 1	63170	63170		1444	
•					09/18/2002		4 00000
8330	Explosives by 8330 (HPLC)	1	63654	62869	09/18/2002	0632	1.00000
3550B	Extraction Ultrasonic (PCBs)	1	62701		09/14/2002	0830	
3550B	Extraction Ultrasonic (SVOC)	1	62700		09/14/2002	0815	
7471A	Mercury (CVAA) Solids	1	63552	63433	09/23/2002	1228	
6010B	Metals Analysis (ICAP Trace)	1	63630	62896	09/23/2002	1259	
6010B	Metals Analysis (ICAP Trace)	1	63672	62896	09/24/2002	1256	
8082	PCB Analysis	1	63718	62701	09/25/2002	0252	1.00000
4500PE	Phosphorous, All Forms	1	63806	63806	09/25/2002	1619	10.00
7470/7471	SW846 Digestion (Hg)	1	63433		09/23/2002	1045	
8270C	Semivolatile Organics	1	63720	62700	09/24/2002	1623	1.00000
8260B	Volatile Organics	1	63482	63411 -63292	09/19/2002	1325	1.00000
ab ID: 211927-6	Client ID: 101-1	Date De	cvd: 09/	11/2002 Sample	Date: 09/10/20	N2	
METHOD	DESCRIPTION	and the second s		PREP BT #(S)			DILITIO
		RUN#		רעבר פו #(5)	DATE/TIME AN		DILUTIO
Method	% Solids Determination	1	62415		09/12/2002	0008	
8330	8330 Extraction (Explosives)	1	62869		09/16/2002	2130	



Job	L A B O R Number: 211927	ATORY CHE	RONI		e: 09/26/2002	
CUSTOMER: SCS Eng	ineers, Inc.	PROJECT: GSA - 5	SLOP		ATTN: David Brewer	
Lab ID: 211927-6	Client ID: 101-1	Date Rec			ole Date: 09/10/2002	~
METHOD 3050B	DESCRIPTION Acid Digestion: Solids (ICAP)		62896	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
8330	Explosives by 8330 (HPLC)		63654	62869	09/17/2002 0935 09/18/2002 0737	1.00000
3550B	Extraction Ultrasonic (PCBs)	·	62701	02009	.09/14/2002 0830	1.00000
7471A	Mercury (CVAA) Solids		63552	63433	09/23/2002 1230	
6010B	Metals Analysis (ICAP Trace)		63630	62896	09/23/2002 1305	
6010B	Metals Analysis (ICAP Trace)		63672	62896	09/24/2002 1303	
8082	PCB Analysis		63718	62701	09/25/2002 0325	1.00000
7470/7471	SW846 Digestion (Hg)		63433		09/23/2002 1045	
					,,	
Lab ID: 211927-7	Client ID: 101-2	Date Rec	vd: 09/	11/2002 Samp	ole Date: 09/10/2002	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
Method	% Solids Determination	1	62415		09/12/2002 0008	
8330	8330 Extraction (Explosives)	1	62869		09/16/2002 2130	
3050B	Acid Digestion: Solids (ICAP)	1	62896		09/17/2002 0935	
8330	Explosives by 8330 (HPLC)		63654	62869	09/18/2002 0842	1.00000
3550B	Extraction Ultrasonic (PCBs)		62701		09/14/2002 0830	
7471A	Mercury (CVAA) Solids		63552	63433	09/23/2002 1232	
6010B	Metals Analysis (ICAP Trace)		63630	62896	09/23/2002 1312	
6010B	Metals Analysis (ICAP Trace)		63672	62896	09/24/2002 1309	
8082	PCB Analysis		63718	62701	09/25/2002 0357	1.00000
7470/7471	SW846 Digestion (Hg)	1	63433		09/23/2002 1045	
Lab ID: 211927-8	Client ID: 101-3	Date Red	vd: 09/	11/2002 Samp	ole Date: 09/10/2002	
METHOD	DESCRIPTION			PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
Method	% Solids Determination	1	62415		09/12/2002 0008	
3050B	Acid Digestion: Solids (ICAP)	1	62896		09/17/2002 0935	
7471A	Mercury (CVAA) Solids	1	63552	63433	09/23/2002 1235	
6010B	Metals Analysis (ICAP Trace)		63630	62896	09/23/2002 1318	
6010B	Metals Analysis (ICAP Trace)		63672	62896	09/24/2002 1315	
7470/7471	SW846 Digestion (Hg)	1	63433		09/23/2002 1045	
Lab ID: 211927-9	Client ID: 101-4	Date Rec	vd: 09/	11/2002 Samr	ole Date: 09/10/2002	
METHOD	DESCRIPTION			PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
Method	% Solids Determination		62415		09/12/2002 0008	_ , _ , , , , , , , ,
3050B	Acid Digestion: Solids (ICAP)		62896		09/17/2002 0935	
7471A	Mercury (CVAA) Solids	· ·	63552	63433	09/23/2002 1237	
6010B	Metals Analysis (ICAP Trace)	· ·	63630	62896	09/23/2002 1324	
6010B	Metals Analysis (ICAP Trace)	· ·	63672	62896	09/24/2002 1321	
7470/7471	SW846 Digestion (Hg)		63433		09/23/2002 1045	
		,	-3.00		207 227 22 22 22	



SURROGATE RECOVERIES REPORT

Job Number.: 211927

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

ATTN: David Brewer

		: PCB Analysis : 63718				: 8082 : Solid	Prep Batch: 62701 Equipment Code: INST0708
Lab ID	DT	Sample ID	Date		DCB	тсх	
_CS			09/24/20	02	81	65	
1B			09/24/20	02	78	66	
211927- 1		105-1	09/24/20	02	72	71	
11927- 1 MS		105-1	09/24/20	02	68	75	
211927- 1 MSD		105-1	09/25/20	02	79	77	
211927- 2		105-2	09/25/20	02	77	70	
211927- 3		105-3	09/25/20	02	70	58	
211927- 4		105-4	09/25/20	02	77	67	
211927- 5		105-5	09/25/20	02	75	67	
211927- 6		101-1	09/25/20	02	79	66	
211927- 7		101-2	09/25/20	02	76	68	
Test Test	Des	cription	Limits				
OCB Deca	chlo	robiphenyl (surr)	24 - 154				
TCX Tetr	achl	oro-m-xylene (surr)	25 - 138				



	S U R R O Job Number.: 211927	GATE RE	COVERI	ES R	EPOR		ort Date.: 09/26/	2002
CUSTOMER	: SCS Engineers, Inc.	PROJECT: GS.	A - SLOP			ATTN	l: David Brewer	
	ethod: Volatile Organics				.: 8260B		Prep Batch: Equipment Code:	
Lab ID	DT Sample ID		Date	12DCED	BRFLBE	DBRFLM	TOLD8	
LCS MB			09/15/2002 09/15/2002	107 97	107 104	104 101	106 103	
Test	Test Description	Limits	_					
12DCED BRFLBE DBRFLM TOLD8	1,2-Dichloroethane-d4 (surr) 4-Bromofluorobenzene (surr) Dibromofluoromethane (surr) Toluene-d8 (surr)	50 - 145 60 - 140 60 - 140 66 - 141						
	thod: Volatile Organics				.: 8260B		Prep Batch: Equipment Code:	
Lab ID	DT Sample ID		Date	12DCED	BRFLBE	DBRFLM	TOLD8	
LCS MB			09/19/2002 09/19/2002	102 94	108 91	98 95	115 110	
Test	Test Description	Limits						
12DCED BRFLBE DBRFLM TOLD8	1,2-Dichloroethane-d4 (surr) 4-Bromofluorobenzene (surr) Dibromofluoromethane (surr) Toluene-d8 (surr)	50 - 145 60 - 140 60 - 140 66 - 141						
	thod: Volatile Organics tch(s): 63482				.: 8260B .: Solid		Prep Batch: Equipment Code:	
Lab ID	DT Sample ID		Date	12DCED	BRFLBE	DBRFLM	TOLD8	
211927-		1 1 1	09/15/2002 09/15/2002 09/19/2002 09/19/2002 09/19/2002 09/19/2002 09/19/2002	108 102 96 109 96 104 101	104 105 93 90 94 94	103 104 94 105 93 104	102 103 111 110 110 113 117	
Test	Test Description	Limits						
12DCED BRFLBE DBRFLM TOLD8	1,2-Dichloroethane-d4 (surr) 4-Bromofluorobenzene (surr) Dibromofluoromethane (surr) Toluene-d8 (surr)	50 - 145 60 - 140 60 - 140 66 - 141						



SURROGATE RECOVERIES REPORT Job Number.: 211927 Report Date.: 09/26/2002 CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN: David Brewer Method.....: Semivolatile Organics Method Code...: 8270 Prep Batch...: 62700 Batch(s)....: 63720 Test Matrix...: Solid Equipment Code: GCL4 DT Sample ID 246TBP 2FLUBP 2FLUPH NITRD5 PHEND5 TERD14 Lab ID Date LCS 09/19/2002 80 73 65 64 70 77 MB 09/19/2002 78 76 75 58 66 102 211927-105 - 109/21/2002 68 67 47 46 60 90 211927-2 105-2 09/21/2002 72 76 61 73 77 92 105-4 211927-4 09/24/2002 57 60 51 57 63 68 211927-105-5 09/24/2002 83 68 60 62 Test Description Limits Test 41 - 126 246TBP 2,4,6-Tribromophenol (surr) 38 - 121 37 - 113 2-Fluorobiphenyl (surr) **2FLUBP** 2-Fluorophenol (surr) 2FLUPH 31 - 120 NITRD5 Nitrobenzene-d5 (surr) 44 - 113 43 - 121 PHEND5 Phenot-d5 (surr) TERD 14 Terphenyl-d14 (surr) Method.....: Semivolatile Organics Method Code...: 8270 Prep Batch...: 63295 Batch(s)....: 63721 Test Matrix...: Solid Equipment Code: GCL4 2FLUPH Lab ID DT Sample ID Date 246TBP 2FLUBP NITRD5 PHEND5 TERD14 85 LCD 09/20/2002 104 88 09/20/2002 102 88 80 87 85 100 LCS МΒ 09/20/2002 76 78 69 72 82 91 211927-105~3 91 79 69 82 94 3 09/20/2002 74 0 0 0 211927-3 105-3 09/24/2002 D 0 D D D D 0 D 78 3 MS 105-3 93 69 211927-09/20/2002 71 75 101 85 75 61 99 211927-3 MSD 105 - 309/20/2002 53 66 Limits Test Description Test 41 - 126 246TBP 2,4,6-Tribromophenol (surr) 38 - 121 2FLUBP 2-Fluorobiphenyl (surr) 37 - 113 31 - 120 44 - 113 2-Fluorophenol (surr) 2FLUPH

43 - 121

NITRD5

PHEND5

TERD 14

Nitrobenzene-d5 (surr)

Terphenyl-d14 (surr)

Phenol-d5 (surr)



SURROGATE RECOVERIES REPORT

Job Number.: 211927

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

ATTN: David Brewer

		: Explosives by 8330 (HP: 63654		od Code: 8330 Matrix: Solid	Prep Batch: 62869 Equipment Code: INST43
Lab ID	TD	Sample ID	Date	12DNBZ	
LCS			09/17/2002	99	
ИВ			09/17/2002	97	
211927- 1		105 - 1	09/17/2002	99	
211927- 1	MS	105 - 1	09/18/2002	99	
211927- 1	MSD	105 - 1	09/18/2002	101	
211927- 2		105-2	09/18/2002	100	
211927- 3		105-3	09/18/2002	99	
211927- 4		105-4	09/18/2002	100	
211927- 5		105-5	09/18/2002	101	
211927- 6		101-1	09/18/2002	101	
211927- 7		101-2	09/18/2002	99	
Test	Test De	scription	Limits		
I 2DNBZ	1,2-Din	itrobenzene (surr)	80 - 120		



	QUALITY Job Number.: 211927	CONTROL R	ESULTS	Report Date.: 09/	26/2002	
CUSTOMER: SO	CS Engineers, Inc. PROJ	CT: GSA - SLOP		ATTN: David Brewe		
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time	e

Test Method.....: 8082 Equipment Code...: INSTO708 Analyst...: mgk
Method Description: PCB Analysis Batch............. 63718

LCS Laboratory Control Samp	ile	002	IWLPCBA	62701 -002	09	/24/2002 2158
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC Calc.	* Limits F
Aroclor 1016, Solid Aroclor 1260, Solid	ug/Kg ug/Kg	124.650 131.770		166.700 167.000	2.900 U 75 2.500 U 79	% 66-104 % 68-108



QUALITY CONTROL RESULTS

Job Number.: 211927

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN:

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

Test Method.....: 8082 Equipmer Method Description: PCB Analysis Batch...

Equipment Code....: INST0708 Batch........... 63718 Analyst...: mgk

MB Method Blank				62701 -001		09	7/24/2002 212	6
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits	F
Aroclor 1016, Solid	ug/Kg	2.900 (	J		***************************************			-
Aroclor 1221, Solid	ug/Kg	6.700 L	J					
Aroclor 1232, Solid	ug/Kg	3.000 L	}					
Aroclor 1242, Solid	ug/Kg	6.300 L	j					
Aroclor 1248, Solid	ug/Kg	2.300 L	J					
Aroclor 1254, Solid	ug/Kg	2.700 L	J					
Aroclor 1260, Solid	ug/Kg	2.500 L	j					



QUALITY CONTROL RESULTS

Job Number.: 211927

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN:

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

Test Method.....: 8082 Equipment Code...: INST0708 Analyst...: mgk

Method Description: PCB Analysis Batch...... 63718

MS Matrix Spike		002	IWLPCBA	211927-1		09	/24/2002 2336
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits F
Aroclor 1016, Solid Aroclor 1260, Solid	ug/Kg ug/Kg	156.361 154.843		191.200 191.500	3.325 U 2.867 U		% 66-104 % 68-108



	Q L Job Number.: 211927	JALITY	CONTROL		Report Date.: 09/2	26/2002	
CUSTOMER: SO	S Engineers, Inc.	PROJECT	: GSA - SLOP		ATTN:		
QC Type	Description		Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8082 Equipment Code...: INST0708 Analyst..: mgk
Method Description: PCB Analysis Batch.....: 63718

MSD Matrix Spike Duplicate		002	IWLPCBA	211927-1	0	9/25/2002 0009
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC Calc.	* Lîmits F
Aroclor 1016, Solid	ug/Kg	160.243	156.361	193.500	3.366 U 83	% 66-104 R 20
Aroclor 1260, Solid	ug/Kg	157.465	154.843	193.900	2.902 U 81 0	% 68-108 R 20



Time

### STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 211927

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN:

QC Type Description Reag. Code Lab ID Dilution Factor Date

Test Method.....: 8330 Equipment Code...: INST43 Analyst...: san

Method Description.: Explosives by 8330 (HPLC) Batch......... 63654

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits
MX, Solid	ug/Kg	1021.350		1000.000	113.000	U 102	/-	79-122
DX, Solid	ug/Kg	1021.650		1000.000	58.600	u 102	%	73-120
,3,5-Trinitrobenzene, Solid	ug/Kg	986.150		1000.000	17,500	u 99	%	78-112
,3-Dinitrobenzene, Solid	ug/Kg	1019.600		1000,000	17.800	U 102	%	84-110
itrobenzene, Solid	ug/Kg	1004,750		1000,000	22.200	U 100	%	80-109
,4,6-TNT, Solid	ug/Kg	1000.850		1000,000	33.800	U 100	%	79-115
etryl, Solid	ug/Kg	1753.600		2000,000	43.400	U 88	%	27-147
,4-Dinitrotoluene, Solid	⊔g/Kg	983.750		1000.000	35.600	u 98	%	83-114
,6-Dinitrotoluene, Solid	ug/Kg	2098.650		2000,000	47.500	U 105	%	82-108
-Amino-4,6-Dinitrotoluene, Solid	ug/Kg	2060.350		2000.000	36.000	U 103	%	81-109
-Amino-2,6-Dinitrotoluene, Solid	ug/Kg	2246.400		2000,000	97.200	U 112	%	84-119
-Nitrotoluene, Solid	ug/Kg	2018.800		2000.000	33,200	U 101	%	79-113
-Nitrotoluene, Solid	ug/Kg	1974.100		2000.000	46.600	U 99	%	78-112
S-Nitrotoluene, Solid	ug/Kg	2060.500		2000.000	50.000	U 103	%	79-114



QUALITY CONTROL RESULTS

Reag. Code

Job Number.: 211927

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

Dilution Factor

ATTN:

Description QC Type

Date

Time

Test Method.....: 8330

Method Description.: Explosives by 8330 (HPLC)

Equipment Code....: INST43

Analyst...: san

Batch..... 63654

Lab ID

09/	17	/2002 2225	Ĉ
QC Calc.	*	Limits	F
***************************************	****	<del></del>	—

Parameter/Test Description	Units	QC Result		QC Result	True	e Value	Orig.	Value	QC	Calc.	*	Limits	F
MX, Solid	ug/Kg	113.000	_υ-			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
RDX, Solid	ug/Kg	58.600	U										
1,3,5-Trinitrobenzene, Solid	ug/Kg	17.500	IJ										
1,3-Dinitrobenzene, Solid	ug/Kg	17.800	U										
Nitrobenzene, Solid	ug/Kg	22,200	U										
2,4,6-TNT, Solid	ug/Kg	33.800	U										
Tetryl, Solid	ug/Kg	43.400	Ü	•									
2,4-Dinitrotoluene, Solid	ug/Kg	35.600	U										
2,6-Dinitrotoluene, Solid	ug/Kg	47.500	U										
2-Amino-4,6-Dinitrotoluene, Solid	ug/Kg	36.000	Ü										
4-Amino-2,6-Dinitrotoluene, Solid	ug/Kg	97.200	U										
2-Nitrotoluene, Solid	ug/Kg	33.200	IJ										
4-Nitrotoluene, Solid	ug/Kg	46,600	U										
S-Nitrotoluene, Solid	ug/Kg	50.000	U										



QUALITY CONTROL RESULTS
Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN:

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

Test Method.....: 8330 Equipment Code...: INST43 Analyst...: san Method Description: Explosives by 8330 (HPLC) Batch......: 63654

MS Matrix Spike		002	HWLEXPA	211927-1	C	9/18/	2002 0035
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC Calc.	*	Limits
HMX, Solid	ug/Kg	1163.657		1162,000	131.316 U 100	_ %	79-122
RDX, Solid	ug/Kg	1106.133		1162.000	68.098 U 95	%	73-120
1,3,5-Trinitrobenzene, Solid	ug/Kg	1217.113		1162.000	20.337 U 105	%	78-112
1,3-Dinitrobenzene, Solid	ug/Kg	1195.091		1162.000	20.685 U 103	%	84-110
Nitrobenzene, Solid	ug/Kg	1189.630		1162.000	25.798 U 102	%	80-109
2,4,6-TNT, Solid	ug/Kg	1188.584		1162.000	39.279 U 102	%	79-115
Tetryl, Solid	ug/Kg	2023.137		2324.000	50.435 U 87	%	27-147
2,4-Dinitrotoluene, Solid	ug/Kg	1161.042		1162.000	41.370 U 100	%	83-114
2,6-Dinitrotoluene, Solid	ug/Kg	2442.419		2324.000	55.199 U 105	%	82-108
2-Amino-4,6-Dinitrotoluene, Solid	ug/Kg	2413.483		2324.000	41.835 U 104	%	81-109
4-Amino-2,6-Dinitrotoluene, Solid	ug/Kg	2804.932		2324.000	112.955 U 121	%	84-119
2-Nitrotoluene, Solid	ug/Kg	2372.809		2324.000	38.581 U 102	%	79-113
4-Nitrotoluene, Solid	ug/Kg	2309.069		2324.000	54.153 U 99	%	78-112
3-Nitrotoluene, Solid	ug/Kg	2421.269		2324.000	58.104 U 104	%	79-114



QUALITY CONTROL RESULTS

Job Number .: 211927

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN: Description QC Type Reag. Code Lab ID

Dilution Factor

Date Time

Test Method.....: 8330

Method Description.: Explosives by 8330 (HPLC)

Equipment Code...: INST43 Batch..... 63654

Analyst...: san

MSD Matrix Spike Duplicate		002	HWLEXPA	211927-1		09	/18/2002 0140
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits
HMX, Solid	ug/Kg	1173.475	1163.657	1168.000	131.966	U 100	% 79-122
RDX, Solid	ug/Kg	1123.490	1106.133	1168.000	68.435	0 ⊍ 96 1	R 30 % 73-120 R 30
1,3,5-Trinitrobenzene, Solid	ug/Kg	1232.102	1217.113	1168.000	20,437	u 106	% 78-112
1,3-Dinitrobenzene, Solid	ug/Kg	1213.008	1195.091	1168.000	20.788	1 U 104 1	R 30 % 84-110 R 30
Nitrobenzene, Solid	ug/Kg	1201.446	1189.630	1168.000	25.926	u 103	% 80-109
2,4,6-TNT, Solid	ug/Kg	1190.117	1188.584	1168.000	39.473	u 102 0	R 30 % 79-115 R 30
Tetryl, Solid	ug/Kg	2026.429	2023.137	2336.000	50.684	u 87	% 27-147
2,4-Dinitrotoluene, Solid	ug/Kg	1156.308	1161.042	1168.000	41.575	U U 99 1	R 30 % 83-114 R 30
2,6-Dinitrotoluene, Solid	ug/Kg	2438.979	2442.419	2336.000	55.472	บ 104	% 82-108
2-Amino-4,6-Dinitrotoluene, Solid	ug/Kg	2440.322	2413.483	2336.000	42.042	1 U 104 0	R 30 % 81-109 R 30
4-Amino-2,6-Dinitrotoluene, Solid	ug/Kg	2850.127	2804.932	2336.000	113.514	U 122	% 84-119
2-Nitrotoluene, Solid	ug/Kg	2400.789	2372.809	2336.000	38.772	1 U 103 1	R 30 % 79-113 R 30
4-Nitrotoluene, Solid	ug/Kg	2334.162	2309.069	2336.000	54.421	u 100	% 78-112
3-Nitrotoluene, Solid	ug/Kg	2446.161	2421.269	2336.000	58.392	1 U 105 1	R 30 % 79-114 R 30



09/19/2002

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45-129

64-103

32-111

62-108

62-105

62-110

62-106

43-122

63-108 67-130

64-108

63-107

1626

#### STL Chicago

Job Number.: 211927 QUALITY CONTROL RESULTS
Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN:

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

Test Method.....: 8270C Equipment Code...: GCL4 Analyst...: dpk
Method Description: Semivolatile Organics Batch......: 63720

**0021WLBNAA** 

62700 -002

LCS

4-Nitrophenol, Solid

4-Nitroaniline, Solid

Hexachtorobenzene, Solid

Diethyl phthalate, Solid

Pentachlorophenol, Solid

Phenanthrene, Solid

Anthracene, Solid

n-Nitrosodiphenylamine, Solid

4-Bromophenyl phenyl ether, Solid

4-Chlorophenyl phenyl ether, Solid

4,6-Dinitro-2-methylphenol, Solid

Fluorene, Solid

Laboratory Control Sample

QC Result Parameter/Test Description Units QC Result True Value Orig. Value QC Calc. Limits 2193.861 Phenol, Solid % ug/kg 3333.000 83.000 45-109 U 66 Bis(2-chloroethyl)ether, Solid 2181.898 3333.000 91.000 U 65 % 42-101 ug/kg 1,3-Dichlorobenzene, Solid 1997,283 3333.000 93.000 U 60 % 48-100 ua/Ka % 1,4-Dichlorobenzene, Solid ug/kg 1968.367 3333.000 74.000 U 59 50-100 1,2-Dichlorobenzene, Solid ug/kg 2125.029 3333.000 86.000 U 64 % 49-104 Benzyl alcohol, Solid 2345.597 3333,000 103.000 % ug/Kg U 70 14-150 2-Methylphenol (o-cresol), Solid 2289.510 3333.000 124.000 % ug/Kg U 69 50-102 2,2-oxybis (1-chloropropane), Solid 2380.633 172.000 % ug/Kg 3333.000 H 71 48-100 n-Nitroso-di-n-propylamine, Solid ug/Kg 2198.561 3333.000 101.000 U 66 % 49-138 Hexachloroethane, Solid ug/Kg 2231.661 3333.000 78.000 U 67 % 46-100 % 4-Methylphenol (m/p-cresol), Solid ug/kg 2426,779 3333,000 118.000 U 73 49-109 2178.578 3333,000 69,000 % 2-Chlorophenol, Solid ug/Kg U 65 52-103 3333,000 63.000 % 50-100 Nitrobenzene, Solid ug/Kg 2136, 325 11 64 ug/Kg Bis(2-chloroethoxy)methane, Solid 2344.780 3333,000 59.000 U 70 % 55-116 % 1,2,4-Trichlorobenzene, Solid ug/Kg 2160.052 3333.000 49.000 U 65 53-107 171.000 % Benzoic acid, Solid ug/Kg 2867.065 3333,000 II 86 40-143 3333.000 50.000 Isophorone, Solid ug/Kg 2041.260 U 61 52-116 223,000 % 2,4-Dimethylphenol, Solid 2403.806 3333.000 U 72 57-100 ug/Kg Hexachlorobutadiene, Solid ug/Kg 2131.092 3333.000 69.000 U 64 % 52-118 Naphthalene, Solid 2224.578 3333,000 64.000 U 67 % 57-100 ug/Kg 2,4-Dichtorophenol, Solid % ug/Kg 2369.803 3333.000 57.000 U 71 58-103 % 4-Chloroaniline, Solid ug/Kg 1289.537 3333.000 127.000 U 39 15-114 68.000 % 57-105 2,4,6-Trichlorophenol, Solid 2700.593 3333.000 II 81 ug/Kg 2,4,5-Trichlorophenol, Solid 2147.099 3333,000 67.000 % 62-118 ug/Kg U 64 121.000 % Hexachlorocyclopentadiene, Solid ug/Kg 1671.573 3333.000 U 50 32-100 % 2-Methylnaphthalene, Solid ug/Kg 2131.785 3333.000 238.000 U 64 53-100 2-Nitroaniline, Solid 2556.764 3333.000 107,000 U 77 % 55-106 ua/Ka 2488.125 54.000 % 2-Chloronaphthalene, Solid ug/Kg 3333.000 U 75 59-114 3333.000 85.000 % 4-Chloro-3-methylphenol, Solid ug/Kg 2488.062 u 75 56-110 2,6-Dinitrotoluene, Solid 2670.287 3333.000 78.000 11.80 % 62-111 ug/Kg 2222.354 3333.000 77.000 % 53-102 2-Nitrophenol, Solid ug/Kg U 67 139.000 % 3-Nitroaniline, Solid 1797.085 ug/Kg 3333.000 U 54 28-100 Dimethyl phthalate, Solid ug/Kg 2567.644 3333.000 75.000 U 77 % 63-105 % 44-139 2,4-Dinitrophenol, Solid 3098.389 3333.000 197.000 U 93 ug/Kg % 2441.469 55.000 60-102 Acenaphthylene, Solid ug/Kg 3333.000 U 73 2762.786 3333.000 74.000 % 2,4-Dinitrotoluene, Solid ug/Kg U 83 61-113 Acenaphthene, Solid 2518,595 3333.000 53.000 U 76 % 61-100 ug/Kg Dibenzofuran, Solid ug/Kg 2480.442 3333.000 55.000 U 74 % 62-108

Page 60 \* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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141.000

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73.000

U 72

U 71

U 46

U 89

U 84

U 70

U 72

U 95

U 88

U 100

U 83

U 83

2411.813

2368.840

1532,445

2952.390

2801.049

2335.587

2394.899

3158.228

2921,907

3334,167

2782.639

2772.499

uq/Kq

ug/Kg



	Job Number.: 211927	QUALITY	CONTROL R		Report Date.: 09/2	26/2002	
CUSTOMER: SO	S Engineers, Inc.	PROJEC1	r: GSA - SLOP		ATTN:		
QC Type	Description		Reag. Code	Lab ID	Dilution Factor	Date	Time

LCS Laboratory Control Sam	ole	002	IWLBNAA	62700 -002		0	9/19/	2002 162	6
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Carbazole, Solid	ug/Kg	2939.574		3333.000	85.000 1	J 88	,-	62-104	
Di-n-butyl phthalate, Solid	ug/Kg	2791.492		3333.000	72.000 l	J 84	%	58-117	
Benzidine, Solid	ug/Kg	1970.000 t	J	3333.000	1970,000 l	1 0	%	10-100	*
Fluoranthene, Solid	ug/Kg	2673.183		3333.000	94.000 l	J 80	%	56-116	
Pyrene, Solid	ug/Kg	2409.356		3333.000	14 <b>3.</b> 000 l	J 72	%	51-123	
Butyl benzyl phthalate, Solid	ug/Kg	2857.768		3333.000	115.000	J 86	%	56-113	
Benzo(a)anthracene, Solid	ug/Kg	2778.186		3333.000	53.000 U	J 83	%	62-109	
Chrysene, Solid	ug/Kg	2825.612		3333.000	40.000 t	J 85	%	60-106	
3,3-Dichlorobenzidine, Solid	ug/Kg	2573.641		3333.000	114.000 L	J 77	%	22-106	
Bis(2-ethylhexyl)phthalate, Solid	ug/Kg	2955.860		3333.000	113.000 L	J 89	%	56-117	
Di-n-octyl phthalate, Solid	ug/Kg	2747.389		3333.000	266,000 l	J 82	%	45-130	
Benzo(b)fluoranthene, Solid	ug/Kg	2 <b>9</b> 50.760		3333.000	10 <b>8.</b> 000 ι	3 89	%	52-124	
Benzo(k)fluoranthene, Solid	ug/Kg	2380.163		3333.000	115.000 l	J 71	%	44-130	
Benzo(a)pyrene, Solid	ug/Kg	2745.549		3333.000	58.000 l	82	%	53-121	
Indeno(1,2,3-cd)pyrene, Solid	ug/Kg	2921.291		3333.000	112.000 U	J 88	%	49-136	
Dibenzo(a,h)anthracene, Solid	ug/Kg	3224.748		3333.000	112.000 l	J 97	%	55-131	
Benzo(ghi)perylene, Solid	ug/Kg	2822.312		3333.000	152.000 U	J 85	%	48-139	



Job Number.: 211927

QUALITY CONTROL RESULTS
Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

QC Type

Description

Reag. Code

Lab ID

Dilution Factor

Date

Time

Test Method.....: 8270C Equipment Code...: GCL4 Analyst...: dpk
Method Description: Semivolatile Organics Batch.....: 63720

MB Method Blank				62700 -001			09	/19/2002	1554
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig.	Value	QC Calc.	* Limi	ts F
Phenol, Solid	ug/Kg	83,000	υ						
Bis(2-chloroethyl)ether, Solid	ug/Kg	91.000	U						
1,3-Dichlorobenzene, Solid	ug/Kg	93.000	U						
1,4-Dichlorobenzene, Solid	ug/Kg	74.000	U						
1,2-Dichlorobenzene, Solid	ug/Kg	86.000	U						
Benzyl alcohol, Solid	ug/Kg	103.000	U						
2-Methylphenol (o-cresol), Solid	ug/Kg	124.000	U						
2,2-oxybis (1-chloropropane), Solid	ug/Kg	172.000	U						
n-Nitroso-di-n-propylamine, Solid	ug/Kg	101.000	U						
Hexachloroethane, Solid	ug/Kg	78.000	U						
4-Methylphenol (m/p-cresol), Solid	ug/Kg	118.000	U						
2-Chlorophenol, Solid	ug/Kg	69.000	U						
Nitrobenzene, Solid	ug/Kg	63.000	Ú						
Bis(2-chloroethoxy)methane, Solid	ug/Kg		ប						
1,2,4-Trichlorobenzene, Solid	ug/Kg		U						
Benzoic acid, Solid	ug/Kg	171.000							
Isophorone, Solid	ug/Kg		Ū						
2,4-Dimethylphenol, Solid	ug/Kg		Ū						
Hexachlorobutadiene, Solid	ug/Kg		ŭ						
Naphthalene, Solid	ug/Kg	64.000	-						
2,4-Dichlorophenol, Solid	ug/Kg		ŭ						
4-Chloroaniline, Solid	ug/Kg	127.000							
2,4,6-Trichlorophenol, Solid	ug/Kg	68.000							
2,4,5-Trichlorophenol, Solid	ug/Kg ug/Kg		U						
• •	ug/Kg ug/Kg		U						
Hexachlorocyclopentadiene, Solid		238.000							
2-Methylnaphthalene, Solid	ug/Kg								
2-Nitroaniline, Solid	ug/Kg		U						
2-Chloronaphthalene, Solid	ug/Kg		U						
4-Chloro-3-methylphenol, Solid	ug/Kg	85.000							
2,6-Dinitrotoluene, Solid	ug/Kg	78.000							
2-Nitrophenol, Solid	ug/Kg	77.000							
3-Nitroaniline, Solid	ug/Kg		U						
Dimethyl phthalate, Solid	ug/Kg	75.000							
2,4-Dinitrophenol, Solid	ug/Kg	197.000							
Acenaphthylene, Solid	ug/Kg	55.000							
2,4-Dinitrotoluene, Solid	ug/Kg	74.000							
Acenaphthene, Solid	ug/Kg	53.000							
Dibenzofuran, Solid	ug/Kg		U						
4-Nitrophenol, Solid	ug/Kg		U						
Fluorene, Solid	ug/Kg	98.000							
4-Nitroaniline, Solid	ug/Kg	135.000							
4-Bromophenyl phenyl ether, Solid	ug/Kg	92.000	U						
Hexachlorobenzene, Solid	ug/Kg		U						
Diethyl phthalate, Solid	ug/Kg	95.000	ប						
4-Chlorophenyl phenyl ether, Solid	ug/Kg	87.000	U						
Pentachlorophenol, Solid	ug/Kg	185.000	บ						
n-Nitrosodiphenylamine, Solid	ug/Kg		U						
4,6-Dinitro-2-methylphenol, Solid	ug/Kg	141.000							
4,0 profited 2 metry (pricing), socia									
Phenanthrene, Solid	ug/Kg		U						



Job Number.: 211927	QUA	LITY COI	ITROL R	ESULTS	Report Date.: 09/	26/2002
CUSTOMER: SCS Engineers, Inc.		PROJECT: GS/	A - SLOP		ATTN:	
QC Type Descript	ion	Re	eag. Code	Lab ID	Dilution Factor	Date Time
MB Method Blank				62700 -001		09/19/2002 1554
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC Ca	lc. * Limits
Carbazole, Solid Di-n-butyl phthalate, Solid Benzidine, Solid Fluoranthene, Solid Pyrene, Solid Butyl benzyl phthalate, Solid Benzo(a)anthracene, Solid Chrysene, Solid 3,3-Dichlorobenzidine, Solid Bis(2-ethylhexyl)phthalate, Solid Bi-n-octyl phthalate, Solid Benzo(b)fluoranthene, Solid Benzo(k)fluoranthene, Solid Benzo(a)pyrene, Solid Indeno(1,2,3-cd)pyrene, Solid Dibenzo(a,h)anthracene, Solid	ug/Kg	85.000 ii 72.000 ii 1970.000 ii 94.000 ii 143.000 ii 153.000 ii 40.000 ii 114.000 ii 113.000 ii 266.000 ii 108.000 ii 115.000 ii 115.000 ii 115.000 ii 112.000 ii 112.000 ii	; ; ; ; ; ; ; ; ; ; ; ;			



QUALITY CONTROL RESULTS

Job Number:: 211927 Report Date:: 09/26/2002

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN:

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

Test Method.....: 8270C Equipment Code...: GCL4 Analyst...: dpk

Method Description.: Semivolatile Organics Batch.....: 63721

LCD Laboratory Control Samp	le Duplicate	9 002	IWLBNAA	63295 -003		0	9/20/2002 1950
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Valu	e QC Calc.	* Limits F
Phenol, Solid	ug/Kg	2604.724	2489.518	3333.000	83.000		% 45-109
Bis(2-chloroethyl)ether, Solid	ug/Kg	2267.471	2310.430	3333.000	91.000	5 U 68	R 20 % 42-101
1,3-Dichlarobenzene, Solid	ug/Kg	2586.081	2496.385	3333.000	93.000	2 U 78	R 20 % 48-100
1,4-Dichlorobenzene, Solid	ug/Kg	2566.231	2561.551	3333.000	74.000	4 υ 77	R 20 % 50-100
1,2-Dichlorobenzene, Solid	ug/Kg	2673.537	2567.381	3333.000	86.000	n 80 0	R 20 % 49-104
Benzyl alcohol, Solid	ug/Kg	3042.116	2940.417	3333.000	103.000	4 U 91	R 20 % 14-150
2-Methylphenol (o-cresol), Solid	ug/Kg	2715.613	2643.330	3333.000	124.000		R 20 % 50-102
2,2-oxybis (1-chloropropane), Solid	ug/Kg	3131.085	3006.330	3333.000	172.000	3 U 94	R 20 % 48-100
n-Nitroso-di-n-propylamine, Solid	ug/Kg	2834.442	2773.596	3333.000	101.000	4 U 85	R 20 % 49-138
Hexachloroethane, Solid	u <b>g/Kg</b>	2748.063	2600.701	3333.000	78.000	2 U 82	R 20 % 46-100
4-Methylphenol (m/p-cresol), Solid	ug/Kg	2944.961	2799.769	3333.000	118.000	6 U 88 5	R 20 % 49~109
2-Chlorophenol, Solid	ug/Kg	2836.642	2685.700	3333.000	69.000	U 85	R 20 % 52-103
Nitrobenzene, Solid	ug/Kg	2870.041	2748.829	3333.000	63.000	U 86	R 20 % 50-100
Bis(2-chloroethoxy)methane, Solid	ug/Kg	3111.196	2982.594	3333.000	59.000	4 U 93	R 20 % 55-116
1,2,4-Trichlorobenzene, Solid	ug/Kg	2848.552	2665.077	3333.000	49.000	4 U <u>8</u> 5	R 20 % 53-107
Benzoic acid, Solid	ug/Kg	3258.197	3356.033	3333.000	171.000	7 U <u>9</u> 8	R 20 % 40~143
Isophorone, Solid	ug/Kg	2748.783	2645.210	3333.000	50.000	3 U 82	R 20 % 52-116
2,4-Dimethylphenol, Solid	ug/Kg	2911.611	2870.001	3333.000	223.000		R 20 % 57-100
Hexachlorobutadiene, Solid	ug/Kg	2794.919	2690.746	3333.000	69.000	1 U 84	R 20 % 52-118
Naphthalene, Solid	ug/Kg	2818.535	2719.363	3333.000	64.000	4 U 85	R 20
2,4-Dichlorophenol, Solid	ug/Kg	3043.736	2908.718	3333.000	57.000	4 U 91	R 20 % 58-103
4-Chloroaniline, Solid	ug/Kg	2126.852	2108.579	3333.000	127.000	5 U 64	R 20 % 15-114
2,4,6-Trichtorophenol, Solid	ug/Kg	2927.941	2929.391	3333.000	68.000	1 U 88	R 20 % 57-105
2,4,5-Trichlorophenol, Solid	ug/Kg	3317.420	3192.561	3333.000	67.000	0 U 100	R 20 % 62-118
Hexachlorocyclopentadiene, Solid	ug/Kg	2307.124	2254.897	3333.000	121.000	4 U 69 2	R 20 % 32-100 R 20



	Job Number.: 211927	QUAI	LITY	CONTROL R	ESULTS	Report Da	ate.: 09/	26/2002
CUSTOMER: SC	CS Engineers, Inc.		PROJECT	: GSA - SLOP		ATTN:		
QC Type	Descript	ion		Reag. Code	Lab ID	Dilution	Factor	Date Time
LCD	Laboratory Control Sam	ple Duplicate	•	0021WLBNAA	63295 -003			09/20/2002 1950
Paran	neter/Test Description	Units	QC Resu	ılt QC Result	True Value	Orig. Valu	ie QC Ca	lc. * Limits
2-Methylnapht	thalene, Solid	ug/Kg	2763.7	86 2670.177	3333.000	238.000	U 83 3	% 53-100 B 30
2-Nitroanilir	ne, Solid	ug/Kg	3064.5	2892.154	3333.000	107.000	U 92	R 20 % 55-106
2-Chloronapht	thalene, Solid	ug/Kg	2845.8	98 2856.068	3333.000	54.000		R 20 % 59-114
4-Chloro-3-me	ethylphenol, Solid	ug/Kg	3286.0	14 3115.169	3333.000	85.000	0 U 99	R 20 % 56-110
2,6-Dinitroto	oluene, Solid	ug/Kg	3167.0	02 3099.956	3333.000	78,000		R 20 % 62-111
2-Nitrophenol	, Solid	ug/Kg	2864.6	48 2796.062	3333.000	77.000		R 20 % 53-102
3-Nitroanilir	ne, Solid	ug/Kg	2578.6	54 2467.162	3333.000	139.000	2 U 77	R 20 % 28-100
Dimethyl phth	nalate, Solid	ug/Kg	3094.9	52 2975.870	3333.000	75.000	4 U 93	R 20 % 63-105
2,4-Dinitroph	nenol, Solid	ug/Kg	3213.5	25 2972.654	3333.000	197.000	4 U 96	R 20 % 44-139
Acenaphthylen	ne, Solid	ug/Kg	2844.6	92 2784.935	3333.000	55.000	8 U 85	R 20 % 60-102
2,4-Dinitroto	oluene, Solid	ug/Kg	3340.6	67 3129.139	3333.000	74.000	2 U 100	R 20 % 61-113
Acenaphthene,	Solid	ug/Kg	3056.7	86 3002.383	3333.000	53.000	7 U 92	R 20 % 61-100
Dibenzofuran,	Solid	ug/Kg	2867.5	78 2834.748	3333.000	55.000	2 U 86	R 20 % 62-108
4-Nitrophenol	, Solid	ug/Kg	3423.3	99 2918.441	3333.000	366.000	1 U 103	R 20 % 45-129
Fluorene, Sol	id	ug/Kg	2885.6	01 2820.425	3333.000	98.000	16 U 87	R 20 % 64-103
4-Nitroanilin	ne, Solid	ug/Kg	2816.7	65 2706.526	3333.000	135.000	2 U 85	R 20 % 32-111
4-Bromophenyl	phenyl ether, Solid	ug/Kg	3111.1	82 3043.170	3333.000	92.000	4 U 93	R 20 % 62-108
Hexachloroben	nzene, Solid	ug/Kg	3023.6	30 3067.286	3333.000	71.000	2 U 91	R 20 % 62-105
Diethyl phtha	alate, Solid	ug/Kg	3265.6	54 3124.989	3333.000	95.000	1 U 98	R 20 % 62-110
4-Chloropheny	l phenyl ether, Solid	ug/Kg	2932.7	61 2908.378	3333.000	87.000	4 U 88	R 20 % 62-106
Pentachloroph	enol, Solid	ug/Kg	3756.9	96 3605.264	3333,000	185.000	1 U 113	R 20 % 43-122
n-Nitrosodiph	enylamine, Solid	ug/Kg	3243.9		3333.000	108.000	4	R 20 % 63-108
4,6-Dinitro-2	-methylphenol, Solid	ug/Kg	3767.0		3333.000	141.000	2	R 20 % 67-130
Phenanthrene,	Solid	ug/Kg	3024.2		3333.000	69.000	3 U 91	R 20 % 64-108
Anthracene, S	solid	ug/Kg	3097.1		3333.000	73.000	1 U 93	R 20 % 63-107
Carbazole, So		ug/Kg	3582.4		3333.000	85.000	0 U 107	R 20 % 62-104
·	thalate, Solid	ug/Kg	3161.2		3333.000	72.000	8	R 20 % 58-117 R 20

Page 65 \* %=% REC, R=RPD, A=ABS Diff., D=% Diff.



	Job Number.: 211927	QUAI	LITY COI	NTROL R	ESULTS	Report Date.: 0	9/26/2002
CUSTOMER: SC	S Engineers, Inc.		PROJECT: GS/	A - SLOP		ATTN;	
QC Type	Descript	ion	Re	eag. Code	Lab ID	Dilution Facto	r Date Time
LCD	Laboratory Control Sam	ple Duplicate	e 002	IWLBNAA	63295 -003		09/20/2002 1950
Param	meter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC	Calc. * Limits
Benzidine, So	olid	ug/Kg	1970.000 U	1970.000	U 3333.000	1970.000 U 37	% 10-100
Fluoranthene,	Solid	ug/Kg	3170.922	3042.456	3333.000	8 94.000 U 95 4	R 20 % 56-116 R 20
Pyrene, Solid	I	ug/Kg	3034.616	3019.363	3333.000	143.000 U 91	% 51-123
Butyl benzyl	phthalate, Solid	ug/Kg	3284.330	3181.068	3333.000	1 115.000 U 99 3	R 20 % 56-113 R 20
Benzo(a)anthr	acene, Solid	ug/Kg	3035.756	3014.303	3333.000	53.000 U 91	% 62-109
Chrysene, Sol	id	ug/Kg	2879.461	2855,115	3333.000	40.000 U 86	R 20 % 60-106 R 20
3,3-Dichlorob	enzidine, Solid	ug/Kg	2947.127	3074.443	3333.000	114.000 U 88	% 22-106
Bis(2-ethylhe	xyl)phthalate, Solid	ug/Kg	3285.097	3138.602	3333.000	113.000 U 99	R 20 % 56-117 R 20
Di-n-octyl ph	thalate, Solid	ug/Kg	3302.767	3134.389	3333.000	266.000 U 99	% 45-130
Benzo(b)fluor	anthene, Solid	ug/Kg	3012.457	3260.764	3333.000	5 108.000 U 90	R 20 % 52-124
Benzo(k)fluor	anthene, Solid	ug/Kg	3079.786	2850.621	3333.000	8 115.000 U 92	R 20 % 44-130
Benzo(a)pyren	e, Solid	ug/Kg	3093.356	3100.429	3333.000	8 58.000 U 93	R 20 % 53-121
Indeno(1,2,3-	cd)pyrene, Solid	ug/Kg	3060.706	3189.598	3333.000	0 112.000 U 92	R 20 % 49-136
Dibenzo(a,h)a	nthracene, Solid	ug/Kg	3205.881	3333.833	3333.000	4 112.000 U 96	R 20 % 55-131
Benzo(ghí)per	ylene, Solid	ug/Kg	3085.786	3226.531	3333.000	4 152.000 U 93 4	R 20 % 48~139 R 20



Job Number.: 211927

QUALITY CONTROL RESULTS

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

ATTN:

QC Type

Description

Reag. Code

Lab ID

Dilution Factor

Date

Time

Test Method.....: 8270C Equipment Code...: GCL4 Analyst...: dpk
Method Description: Semivolatile Organics Batch.....: 63721

	24.2	002		/720E 000			2002 4047
LCS   Laboratory Control Samp Parameter/Test Description	Units	QC Result	QC Result	63295 -002 True Value	Orig. Value QC Calo	<u>, a 14 9 9 9 9</u>	2002 1917 Limits
Phenol, Solid	ug/Kg	2489.518		3333,000	83.000 U 75		45-109
Bis(2-chloroethyl)ether, Solid	ug/Kg	2310.430		3333,000	91,000 U 69	%	42-101
1,3-Dichlorobenzene, Solid	ug/Kg	2496.385		3333.000	93.000 U 75	%	48-100
1,4-Dichlorobenzene, Solid	ug/Kg	2561.551		3333.000	74.000 U 77	%	50-100
1,2-Dichlorobenzene, Solid	ug/Kg	2567.381		3333.000	86,000 U 77	%	49-104
Benzyl alcohol, Solid	ug/Kg	2940,417		3333.000	103.000 U 88	%	14-150
2-Methylphenol (o-cresol), Solid	ug/Kg	2643,330		3333.000	124.000 U 79	%	50-102
2,2-oxybis (1-chloropropane), Solid	ug/Kg	3006.330		3333.000	172.000 U 90	%	48-100
n-Nitroso-di-n-propylamine, Solid	ug/Kg	2773.596		3333.000	101.000 U 83	%	49-138
Hexachloroethane, Solid	ug/Kg	2600,701		3333.000	78,000 U 78	%	46-100
4-Methylphenol (m/p-cresol), Solid	ug/Kg	2799.769		3333.000	118.000 U 84	%	49-109
2-Chlorophenol, Solid	ug/Kg	2685.700		3333,000	69.000 U 81	%	52-103
Nitrobenzene, Solid	ug/Kg	2748.829		3333.000	63.000 U 82	%	50-100
Bis(2-chloroethoxy)methane, Solid	ug/Kg	2982.594		3333.000	59.000 U 89	%	55-116
1,2,4-Trichlorobenzene, Solid	ug/Kg	2665.077		3333.000	49.000 U 80	%	53-107
Benzoic acid, Solid	ug/Kg ug/Kg	3356.033		3333.000	171.000 U 101	%	40-143
Isophorone, Solid	ug/Kg ug/Kg	2645.210		3333.000	50.000 U 79	%	52-116
2,4-Dimethylphenol, Solid	ug/Kg ug/Kg	2870,001		3333.000	223.000 U 86	%	57-100
Hexachlorobutadiene, Solid	ug/Kg ug/Kg	2690.746		3333.000	69.000 U 81	%	52-118
Naphthalene, Solid	ug/kg ug/Kg	2719.363		3333.000	64.000 U 82	%	57-110
2.4-Dichlorophenol, Solid	ug/kg ug/Kg	2908.718		3333.000	57.000 U 87	%	58-100 58-103
4-Chloroaniline, Solid		2108.579		3333.000		%	
•	ug/Kg						15-114
2,4,6-Trichlorophenol, Solid 2,4,5-Trichlorophenol, Solid	ug/Kg	2929.391 3192.561		3333.000	68.000 U 88 67.000 U 96	%	57-105
	ug/Kg			3333.000		%	62-118
Hexachlorocyclopentadiene, Solid	ug/Kg	2254.897		3333.000	121.000 U 68	%	32-100
2-Methylnaphthalene, Solid	ug/Kg	2670.177		3333.000	238.000 U 80	%	53-100
2-Nitroaniline, Solid	ug/Kg	2892.154		3333.000	107.000 U 87	%	55-106
2-Chloronaphthalene, Solid	ug/Kg	2856.068		3333.000	54.000 U 86	%	59-114
4-Chloro-3-methylphenol, Solid	ug/Kg	3115.169		3333.000	85.000 U 93	%	56-110
2,6-Dinitrotoluene, Solid	ug/Kg	3099.956		3333.000	78.000 U 93	%	62-111
2-Nitrophenol, Solid	ug/Kg	2796.062		3333.000	77.000 U 84	%	53-102
3-Nitroaniline, Solid	ug/Kg	2467.162		3333.000	139.000 U 74	%	28-100
Dimethyl phthalate, Solid	ug/Kg	2975.870		3333.000	75.000 U 89	%	63-105
2,4-Dinitrophenol, Solid	ug/Kg	2972.654		3333.000	197.000 U 89	%	44-139
Acenaphthylene, Solid	ug/Kg	2784.935		3333.000	55.000 U 84	%	60-102
2,4-Dinitrotoluene, Solid	ug/Kg	3129.139		3333.000	74.000 U 94	%	61-113
Acenaphthene, Solid	ug/Kg	3002.383		3333.000	53.000 U 90	%	61-100
Dibenzofuran, Solid	ug/Kg	2834.748		3333.000	55.000 U 85	%	62-108
4-Nitrophenol, Solid	ug/Kg	2918.441		3333.000	366.000 U 88	%	45~129
Fluorene, Solid	ug/Kg	2820.425		3333.000	98.000 U 85	%	64-103
4-Nitroaniline, Solid	ug/Kg	2706.526		3333.000	135.000 U 81	%	32-111
4-Bromophenyl phenyl ether, Solid	ug/Kg	3043.170		3333.000	92.000 U 91	%	62-108
Hexachlorobenzene, Solid	ug/Kg	3067.286		3333.000	71.000 U 92	%	62-105
Diethyl phthalate, Solid	ug/Kg	3124.989		3333.000	95.000 U 94	%	62-110
4-Chlorophenyl phenyl ether, Solid	ug/Kg	2908.378		3333.000	87.000 U 87	%	62-106
Pentachlorophenol, Solid	ug/Kg	3605.264		3333.000	185.000 U 108	%	43-122
n-Nitrosodiphenylamine, Solid	ug/Kg	3187.751		<b>3333.</b> 000	108.000 U 96	%	63-108
4,6-Dinitro-2-methylphenol, Solid	ug/Kg	3637.930		3333.000	141.000 U 109	%	67-130
Phenanthrene, Solid	ug/Kg	2990.780		3333.000	69.000 8 90	%	64-108
Anthracene, Solid	ug/Kg	3103.766		3333.000	73.000 u 93	%	63-107

Page 67 \* %=% REC, R=RPD, A=ABS Diff., D=% Diff.



	Job Number.: 211927	QUAI	ITY CO	NTROL R	Report Date.: 09/26/2002				
CUSTOMER: SCS	Engineers, Inc.		PROJECT: GS	A - SLOP		ATTN:			
QC Type	C Type Descript		R	eag. Code	Lab ID	Dilution Fac	tor Date	Time	
LCS	aboratory Control Samp	ole	002	(WLBNAA	63295 -002		09/20,	/2002 1917	
Paramet	ter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value Q	C Calc. *	Limits	
Carbazole, Soli	id	ug/Kg	3314.887	***************************************	3333.000	85.000 U 9	9 %	62-104	
i-n-butyl phth	nalate, Solid	ug/Kg	3142.115		3333.000	72.000 U 9	4 %	58-117	
enzidine, Soli	īd	ug/kg	1970.000	J	3333.000	1970.000 U 3	4 %	10-100	
luoranthene, S	Solid	ug/Kg	3042.456		3333.000	94.000 U 9	1 %	56-116	
yrene, Solid		ug/Kg	3019.363		3333.000	143.000 U 9		51-123	
	nthalate, Solid	ug/Kg	3181.068		3333.000	115.000 U 9		56-113	
enzo(a)anthrac	•	ug/Kg	3014.303		3333.000	53.000 U 9		62~109	
hrysene, Solid		ug/Kg	2855.115		3333.000	40.000 U 8		60-106	
,	nzidine, Solid	ug/Kg	3074.443		3333.000	114.000 U 9		22-106	
	yl)phthalate, Solid	ug/Kg	3138.602		3333.000	113.000 U 9		56-117	
i-n-octyl phth		ug/Kg	3134.389		3333.000	266.000 U 9	-	45-1 <b>3</b> 0	
enzo(b)fluorar	•	ug/Kg	3260,764		3333.000	108.000 U 9		52-124	
enzo(k)fluorar	•	ug/Kg	2850.621 3100.429		3333.000 3333.000	115.000 U 8 58.000 U 9		44-130 53-121	
enzo(a)pyrene,		ug/Kg	3189.598		3333.000	112.000 U 9		49-136	
	d)pyrene, Solid thracene, Solid	ug/Kg ug/Kg	3333.833		3333.000	112.000 U 9		55-131	
	lene, Solid	ug/kg ug/Kg	3226.531		3333.000	152.000 U 9		48-139	



ATTN:

QUALITY CONTROL RESULTS Report Date.: 09/26/2002

PROJECT: GSA - SLOP

Job Number .: 211927

CUSTOMER: SCS Engineers, Inc.

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

Test Method....: 8270C Equipment Code...: GCL4 Analyst...: dpk Method Description.: Semivolatile Organics Batch..... 63721

MB Method 8lank 63295 -001 0972072002 1844

Parameter/Test Description	Units	QC Result	QC Re	esult	True	Value	Orig.	Value	QC Calc.	* Limits	S
Phenol, Solid	ug/Kg	83.000						***************************************	***************************************		
Bis(2-chloroethyl)ether, Solid	ug/Kg	91.000									
1,3-Dichlorobenzene, Solid	ug/Kg	93.000									
1,4-Dichlorobenzene, Solid	ug/Kg	74.000	U								
1,2-Dichlorobenzene, Solid	ug/Kg	86.000	U								
Benzyl alcohol, Solid	ug/Kg	103.000	U								
2-Methylphenol (o-cresol), Solid	ug/Kg	124.000	u								
2,2-oxybis (1-chloropropane), Solid	ug/Kg	172.000	U								
n-Nitroso-di-n-propylamine, Solid	ug/Kg	101.000	U								
Mexachloroethane, Solid	ug/Kg	78.000	U								
-Methylphenol (m/p-cresol), Solid	ug/Kg	118.000	U								
?-Chlorophenol, Solid	ug/Kg	69.000	U								
litrobenzene, Solid	ug/Kg	63.000	U								
Bis(2-chloroethoxy)methane, Solid	ug/Kg	59.000	U								
,2,4-Trichlorobenzene, Solid	ug/Kg	49.000	U								
Benzoic acid, Solid	ug/Kg	171.000	U								
sophorone, Solid	ug/Kg	50.000	U								
2,4-Dimethylphenol, Solid	ug/Kg	223.000	U								
Mexachlorobutadiene, Solid	ug/Kg	69.000	U								
aphthalene, Solid	ug/Kg	64.000	U								
,4-Dichlorophenol, Solid	ug/Kg	57.000	U								
-Chloroaniline, Solid	ug/Kg	127.000	U								
,4,6-Trichlorophenol, Solid	ug/Kg	68,000									
.4.5-Trichlorophenol, Solid	ug/Kg	67.000	Ū								
lexachlorocyclopentadiene, Solid	ug/Kg	121.000	Ū								
-Methylnaphthalene, Solid	ug/Kg	238.000	Ü								
?-Nitroaniline, Solid	ug/Kg	107.000									
2-Chloronaphthalene, Solid	ug/Kg	54.000	Ū								
-Chloro-3-methylphenol, Solid	ug/Kg	85.000	Ŭ								
2,6-Dinitrotoluene, Solid	ug/Kg	78.000									
P-Nitrophenol, Solid	ug/Kg	77.000									
3-Nitroaniline, Solid	ug/Kg	139.000	Ü								
Dimethyl phthalate, Solid	ug/Kg	75.000	Ü								
2,4-Dinitrophenol, Solid	ug/Kg	197.000									
cenaphthylene, Solid	ug/Kg	55.000	U								
.4-Dinitrotoluene, Solid	ug/Kg	74.000									
cenaphthene, Solid	ug/Kg	53.000	U								
ibenzofuran, Solid	ug/Kg ug/Kg	55.000	U								
and the second s		366.000	U								
-Nitrophenol, Solid	ug/Kg	98.000	U								
luorene, Solid	ug/Kg		U								
-Nitroaniline, Solid	ug/Kg	135.000									
-Bromophenyl phenyl ether, Solid	ug/Kg	92.000	U								
exachlorobenzene, Solid	ug/Kg	71.000									
Diethyl phthalate, Solid	ug/Kg	95.000									
4-Chlorophenyl phenyl ether, Solid	ug/Kg	87.000									
Pentachlorophenol, Solid	ug/Kg	185.000	U								
n-Nitrosodiphenylamine, Solid	ug/Kg	108.000	U								
4,6-Dinitro-2-methylphenol, Solid	ug/Kg	141.000	U								
Phenanthrene, Solid	ug/Kg	69.000	U								
inthracene, Solid	ug/Kg	73.000	U								



	Job Number.: 211927	QUA	ITY CONTROL RESULTS				Report Date.: 09/26/2002					
CUSTOMER: SO	CS Engineers, Inc.		PROJECT: 0	DJECT: GSA - SLOP								
QC Type	C Type Descript			Rea	ng. Code	Lab ID	Dilut	ion F	actor	Date	e Ti	ime
мв	Method Blank					63295 -001				09/20,	/2002 1	1844
Parar	meter/Test Description	Units	QC Result		QC Result	True Value	Orig. Va	alue	QC Cal	c. *	Limits	3 f
Carbazole, So		ug/Kg	85.000									
	hthalate, Solid	ug/Kg	72.000	-								
Benzidine, Sc		ug/Kg	1970.000									
Fluoranthene,		ug/Kg	94.000	-								
Pyrene, Solid		ug/Kg	143.000	U								
	phthalate, Solid	ug/Kg	115.000	U								
	racene, Solid	ug/Kg	53.000	Ų								
Chrysene, Sol		ug/Kg	40.000 114.000	U								
	penzidine, Solid exyl)phthalate, Solid	ug/Kg ug/Kg	113.000	U								
	nthalate, Solid	ug/Kg ug/Kg	266.000	-								
, ,	ranthene, Solid	ug/Kg	108.000	Ü								
	ranthene, Solid	ug/Kg ug/Kg	115.000	Ü								
Benzo(a)pyrer		ug/Kg	58.000	Ü								
	-cd)pyrene, Solid	ug/Kg	112.000	Ü								
	anthracene, Solid	ug/Kg	112.000	Ü								
Benzo(ghi)per	rylene, Solid	ug/Kg	152.000	Ü								



QUALITY CONTROL RESULTS

Job Number : 211927

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN:

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

Test Method.....: 8270C Equipment Code...: GCL4

Method Description.: Semivolatile Organics Batch...... 63721

Analyst...: dpk

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	e QC Calc.	*	Limits
nenol, Solid	ug/Kg	2725.909	***************************************	3939.000	98.082	U 69	- %	45-109
is(2-chloroethyl)ether, Solid	ug/Kg	2140.808		3939.000		U 54	%	42-101
3-Dichlorobenzene, Solid	ug/Kg	2410.601		3939.000	109.899	U 61	%	48-100
4-Dichlorobenzene, Solid	ug/Kg	2445.537		3939.000	87.446	U 62	%	50-100
2-Dichlorobenzene, Solid	ug/Kg	2602.851		3939,000		U 66	%	49-104
nzyl alcohol, Solid	ug/Kg	3132.392		3939,000		U 80	%	14-150
Methylphenol (o-cresol), Solid	ug/Kg	2858.141		3939.000	146,532	u 73	%	50-102
2-oxybis (1-chloropropane), Solid	ug/Kg	2856.526		3939,000		u 73	%	48-100
Nitroso-di-n-propylamine, Solid	ug/Kg	2887.745		<b>3939.</b> 000	119.353	U 73	%	49-138
xachloroethane, Solid	ug/Kg	2489.502		3939.000	92.173	U 63	%	46-100
Methylphenol (m/p-cresol), Solid	ug/Kg	3166.423		3939.000		U 80	%	49-109
Chlorophenol, Solid	ug/Kg	2772.587		<b>3939.</b> 000	81.538	U 70	%	52-103
trobenzene, Solid	ug/Kg	2755.233		3939.000		U 70	%	50-100
s(2-chloroethoxy)methane, Solid	ug/Kg	3112.962		3939.000	69.721	U 79	%	55-116
2,4-Trichlorobenzene, Solid	ug/Kg	2660.376		3939.000		U 68	%	53-107
nzoic acid, Solid	ug/Kg	3438.074		3939.000	202.072	U 87	%	40-143
ophorone, Solid	ug/Kg	2799.635		3939.000	59.085	บ 71	%	52-116
4-Dimethylphenol, Solid	ug/Kg	3068,258		3939.000	263.521	U 78	%	57-100
xachlorobutadiene, Solid	ug/Kg	2658.836		3939,000	81.538	U 68	%	52-118
phthalene, Solid	ug/Kg	2796.326		3939.000		U 71	%	57-100
4-Dichlorophenol, Solid	ug/Kg	3162.012		3939.000	67.357	U 80	%	58-103
Chloroaniline, Solid	ug/Kg	2648.273		3939,000		U 67	%	15-114
4,6-Trichlorophenol, Solid	ug/Kg	3341.307		3939,000		U 85	%	57-105
4,5-Trichlorophenol, Solid	ug/Kg	3637.804		3939.000		u 92	%	62-118
xachlorocyclopentadiene, Solid	ug/Kg	1924.748		3939.000	142.987	u 49	%	32-100
Methylnaphthalene, Solid	ug/Kg	2819.033		3939.000	281.247	U 72	%	53-100
Nitroaniline, Solid	ug/Kg	3371.608		3939.000	126.443	U 86	%	55-106
Chloronaphthalene, Solid	ug/Kg	3090.586		3939.000	63.812	U 78	%	59-114
Chloro-3-methylphenol, Solid	ug/Kg	3559.774		3939.000	100.445	U 90	%	56-110
6-Dinitrotoluene, Solid	ug/Kg	3538.788		3939.000	92.173	u 90	%	62-111
Nitrophenol, Solid	ug/Kg	2795.019		3939,000	90.992	U 71	%	53-102
Nitroaniline, Solid	ug/Kg	3084.060		3939.000	164.258	u 78	%	28-100
methyl phthalate, Solid	ug/Kg	3404.784		3939.000	88.628	U 86	%	63-105
4-Dinitrophenol, Solid	ug/Kg	2460.052		3939.000	232.797	U 62	%	44~139
enaphthylene, Solid	ug/Kg	3062.089		3939.000	64.994	u 78	%	60-102
4-Dinitrotoluene, Solid	ug/Kg	3585.994		3939,000	87.446	U 91	%	61-113
enaphthene, Solid	ug/Kg	3410,149		3939.000	874.375	64	%	61-100
benzofuran, Solid	ug/Kg	3166.395		3939.000	393.879	70	%	62-108
Nitrophenol, Solid	ug/Kg	3734.430		3939.000	432.505	บ 95	%	45-129
uorene, Solid	ug/Kg	3196.700		3939.000	1013.424	55	%	64-103
Nitroaniline, Solid	ug/Kg	3074.028		3939.000	159.531	U 78	%	32-111
Bromophenyl phenyl ether, Solid	ug/Kg	3567,494		3939.000	108.717	U 91	%	62-108
xachlorobenzene, Solid	ug/Kg	3495.167		3939.000	83.901	U 89	%	62-105
ethyl phthalate, Solid	ug/Kg	3552.263		3939.000	112.262	U 90	%	62-110
Chlorophenyl phenyl ether, Solid	ug/Kg	3224.000		3939.000	102.809	U 82	%	62-106
ntachlorophenol, Solid	ug/Kg	4026.346		3939.000	218.616	U 102	%	43-122
Nitrosodiphenylamine, Solid	ug/Kg	3725.386		3939,000		U 95	%	63-108
6-Dinitro-2-methylphenol, Solid	ug/Kg	3266.243		3939.000	166.621		%	67-130
enanthrene, Solid	ug/Kg	4717.872		3939.000	8602.818	-99	%	64-108
thracene, Solid	ug/Kg	3615.921		3939.000	1819.670	46	%	63-107



Job Nu	umber.: 211927	QUA	LITY C	ONTROL R	ESULTS	Report Date.: 09/	26/2002	
CUSTOMER: SCS Engir	neers, Inc.		PROJECT:	GSA - SLOP		ATTN:		
QC Type	OC Type Descript			Reag. Code	Lab ID	Dilution Factor	Date	Time
MS Matrix	(Spike		0	O21WLBNAA	211927-3		09/20/200	2 2305
Parameter/Te	est Description	Units	QC Result	QC Result	True Value	Orig. Value QC Ca	ilc. * Lîi	mits
Carbazole, Solid Di-n-butyl phthalate Benzidine, Solid Fluoranthene, Solid Pyrene, Solid Butyl benzyl phthala Benzo(a)anthracene, Chrysene, Solid 3,3-Dichlorobenzidir Bis(2-ethylhexyl)pht	ate, Solid Solid ne, Solid	ug/Kg	3872.290 3484.497 2327.966 5269.376 5178.351 3874.027 4182.793 4280.868 3624.495 3802.310	t	3939.000 3939.000 3939.000 3939.000 3939.000 3939.000 3939.000 3939.000 3939.000	992.895 73 85.083 U 88 2327.966 U 28 10359.657 -129 7961.865 -71 135.897 U 98 4387.845 -5 5346.339 -27 134.715 U 92 133.533 U 97	% 5. % 5. % 5. % 5. % 6. % 6. % 2.	2-104 8-117 0-100 6-116 1-123 6-113 2-109 0-106 2-106 6-117
Di-n-octyl phthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene, Soli Indeno(1,2,3-cd)pyre Dibenzo(a,h)anthrace Benzo(ghi)perylene,	e, Solid e, Solid e, Solid d ene, Solid ene, Solid	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	3879.321 4504.747 3953.440 4172.159 3733.264 3801.491 3915.986		3939.000 3939.000 3939.000 3939.000 3939.000 3939.000 3939.000	314.335 U 98 4786.091 -7 3469.391 12 3720.833 11 2355.671 35 1078.335 69 2551.533 35	% 4 % 5 % 4 % 5 % 4 % 5	5-130 2-124 4-130 3-121 9-136 5-131 8-139



QUALITY CONTROL RESULTS

Job Number.: 211927 Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN:

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

Test Method.....: 8270C Equipment Code...: GCL4 Analyst...: dpk
Method Description: Semivolatile Organics Batch.....: 63721

MSD Matrix Spike Duplicate		002	IWLBNAA	211927-3		0	9/20/2002 2338
Parameter/Test Description	Unīts	QC Result	QC Result	True Value	Orig. Valu	ue QC Calc.	* Limits F
Phenol, Solid	ug/Kg	2409.132	2725.909	3939.000	98.082		% 45-109
Bis(2-chloroethyl)ether, Solid	ug/Kg	1593.366	2140.808	3939.000	107.535		R 20 % 42-101 *
1,3-Dichlorobenzene, Solid	ug/Kg	1623.552	2410.601	3939.000	109.899	30 U 41	R 20 * % 48-100 *
1,4-Dichtorobenzene, Solid	ug/Kg	1712.631	2445.537	3939.000	87.446	39 U 43	R 20 * % 50~100 *
1,2-Dichtorobenzene, Solid	ug/Kg	1910.139	2602.851	3939.000	101.627	36 U 48	R 20 * * * * * * * * * * * * * * * * * *
Benzyl alcohol, Solid	ug/Kg	2779.098	3132.392	3939.000	121.716	32 U 71	R 20 * %
·						12	R 20
2-Methylphenol (o-cresol), Solid	ug/Kg	2614.128	2858.141	3939.000	146.532	U 66 10	% 50-102 R 20
2,2-oxybis (1-chloropropane), Solid	ug/Kg	2112.678	2856.526	3939,000	203.254		% 48-100 R 20
n-Nitroso-di-n-propylamine, Solid	ug/Kg	2494.149	2887.745	3939.000	119,353	U 63	% 49-138
Hexachloroethane, Solid	ug/Kg	1751.203	2489.502	3939.000	92.173		R 20 % 46-100 *
4-Methylphenol (m/p-cresol), Solid	ug/Kg	2790.958	3166.423	3939.000	139.442		R 20
2-Chlorophenol, Solid	ug/Kg	2368.330	2772.587	3939,000	81.538		R 20 % 52-103
Nitrobenzene, Solid	ug/Kg	2389.308	2755.233	3939.000	74.448	15 U 61	R 20 % 50-100
Bis(2-chloroethoxy)methane, Solid	ug/Kg	2785.676	3112.962	3939.000	69.721	14 U 71	R 20 % 55-116
1,2,4-Trichtorobenzene, Solid	ug/Kg	2400.254	2660.376	3939.000	57.904	11 U 61	R 20 % 53-107
Benzoic acid, Solid	ug/Kg	2973.798	3438.074	3939.000	202.072	11 U 76	R 20 % 40-143
Isophorone, Solid	ug/Kg	2538.941	2799.635	3939.000	59.085	13 U 64	R 20 % 52-116
' '						10	R 20
2,4-Dimethylphenol, Solid	ug/Kg	2981.085	3068.258	3939.000	263.521	3	% 57-100 R 20
Hexachlorobutadiene, Solid	ug/Kg	2143.916	2658.836	3939.000	81.538	U 54 23	% 52-118 R 20 *
Naphthalene, Solid	ug/Kg	2582.511	2796.326	3939,000	75.629	U 66	% 57-100
2,4-Dichlorophenol, Solid	ug/Kg	3071.574	3162.012	3939.000	67.357		R 20 % 58-103
4-Chloroaniline, Solid	ug/Kg	2501.015	2648.273	3939.000	150.077		R 20 % 15-114
2,4,6-Trichlorophenol, Solid	ug/Kg	3082.925	3341.307	3939.000	80.356		R 20 % 57-105
2,4,5-Trichlorophenol, Solid	ug/Kg	3529.883	3637.804	3939.000	79.174	9 U 90	R 20 % 62~118
Hexachlorocyclopentadiene, Solid	ug/Kg	1386.987	1924.748	3939.000	142.987	2 U 35 33	R 20 % 32-100 R 20 *

Page 73 \* %=% REC, R=RPD, A=ABS Diff., D=% Diff.



Job Number.: 211927	QUAI	LITY COI	NTROL R	ESULTS	Report Da	ite.: 09/2	26/2002	
CUSTOMER: SCS Engineers, Inc.		PROJECT: GS/	4 - SLOP		ATIN:			
QC Type Descript	ion	Re	eag. Code	Lab ID	Dilution	Factor	Date Time	<u> </u>
MSD Matrix Spike Duplicate		002	[WLBNAA	211927-3			09/20/2002 233	 58
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Valu	ıe QC Cal	c. * Limits	, minute
2-Methylnaphthalene, Solid	ug/Kg	2650.545	2819.033	3939.000	281.247	U 67	% 53-100 R 20	
2-Nitroaniline, Solid	ug/Kg	3289.426	3371.608	3939.000	126.443		% 55-106	
2-Chloronaphthalene, Solid	ug/Kg	2951.635	3090.586	3939.000	63.812	2 U 75	R 20 % 59-114	
4-Chloro-3-methylphenol, Solid	ug/Kg	3306.327	3559.774	3939.000	100.445	U 84	R 20 % 56-110	
2,6-Dinitrotoluene, Solid	ug/Kg	3269.854	3538.788	3939.000	92.173		R 20 % 62-111	
2-Nitrophenol, Solid	ug/Kg	2485.890	2795.019	3939.000	90.992		R 20 % 53-102	
3-Nitroaniline, Solid	ug/Kg	2921.452	3084.060	3939.000	164.258		R 20 % 28-100	
Dimethyl phthalate, Solid	ug/Kg	3250.874	3404.784	3939.000	88.628	5 U 83	R 20 % 63-105	
2,4-Dinitrophenol, Solid	ug/Kg	2158.182	2460.052	3939.000	232.797		R 20 % 44-139	
Acenaphthylene, Solid	ug/Kg	2933.525	3062.089	3939.000	64.994		R 20 % 60-102	
2,4-Dinitrotoluene, Solid	ug/Kg	3240.397	3585,994	3939.000	87.446		R 20 % 61-113	
Acenaphthene, Solid	ug/Kg	4568.121	3410,149	3939.000	874.375	10 94	R 20 % 61-100	
Dibenzofuran, Solid	ug/Kg	3619.934	3166.395	3939.000	393.879	38 82	R 20 % 62-108	
4-Nitrophenol, Solid	ug/Kg	3152.787	3734.430	3939.000	432.505	16 U 80	R 20 % 45-129	
Fluorene, Solid	ug/Kg	4209.616	3196.700	3939.000	1013.424	17 81	R 20 % 64-103	
4-Nitroaniline, Solid	ug/Kg	2795.397	3074.028	3939.000	159.531	38 U 71	R 20 % 32-111	
4-Bromophenyl phenyl ether, Solid	ug/Kg	3903.056	3567.494	3939.000	108.717	_	R 20 % 62~108	
Hexachlorobenzene, Solid	ug/Kg	3696.204	3495.167	3939.000	83.901	8 U 94	R 20 % 62-105	
Diethyl phthalate, Solid	ug/Kg	3230.853	3552.263	3939.000	112.262		R 20 % 62-110	
4-Chlorophenyl phenyl ether, Solid	ug/Kg	2717.480	3224.000	3939.000	102.809		R 20 % 62-106	
Pentachlorophenol, Solid	ug/Kg	3645.698	4026.346	3939.000	218.616		R 20 % 43-122	
n-Nitrosodiphenylamine, Solid	ug/Kg	4177.515	3725.386	3939.000	127.625		R 20 % 63-108	
4,6-Dinitro-2-methylphenol, Solid	ug/Kg	2947.562	3266.243	3939.000	166.621		R 20 % 67-130	
Phenanthrene, Solid	ug/Kg	17496.590	4717.872	3939.000	8602.818	10 226	R 20 % 64-108	
Anthracene, Solid	ug/Kg	6423.626	3615.921	3939.000	1819.670	512 117	R 20 % 63-107	
Carbazole, Solid	ug/Kg	5954.876	3872.290	3939.000	992.895	87 126	R 20 % 62-104	
Di-n-butyl phthalate, Solid	ug/Kg	3616.122	3484.497	3939.000	85.083	53 U 92 4	R 20 % 58-117 R 20	

Page 74 \* %=% REC, R=RPD, A=ABS Diff., D=% Diff.



Job Number.: 211927

QUALITY CONTROL RESULTS

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

ATTN:

QC Type

Description

Reag. Code

Lab ID

Dilution Factor

Date

Time

MSD Matrix Spike Duplicate		002	IWLBNAA	211927-3		09	2/20/2002 2338
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits F
Benzidine, Solid	ug/Kg	2327.966	u 2327.966	U 3939.000	2327.966	U <b>37</b>	% 10-100
Fluoranthene, Solid	ug/Kg	18415.422	5269.376	3939.000	10359.657	28 205 879	R 20 * % 56-116 * R 20 *
Pyrene, Solid	ug/Kg	15835.817	5178.351	3939.000	7961.865	200	% 51-123 *
Butyl benzyl phthalate, Solid	ug/Kg	3745.458	3874.027	3939.000	135.897	420 U 95 3	R 20 * % 56-113 R 20
Benzo(a)anthracene, Solid	ug/Kg	12084.592	4182.793	3939.000	4387.845	195	% 62-109 <b>*</b>
Chrysene, Solid	ug/Kg	13168.063	4280.868	3939.000	5346.339	211 199 263	R 20 * % 60-106 * R 20 *
3,3-Dichlorobenzidine, Solid	ug/Kg	3150.266	3624.495	3939.000	134.715	U 80	% 22-106
Bis(2-ethylhexyl)phthalate, Solid	ug/Kg	3783.491	3802.310	3939,000	133.533	14 U 96 1	R 20 % 56~117 R 20
Di-n-octyl phthalate, Solid	ug/Kg	3312.046	3879.321	3939.000	314.335	บ 84	% 45-130
Benzo(b)fluoranthene, Solid	ug/Kg	15281.438	4504.747	3939.000	4786.091	15 266 211	R 20 % 52-124 * R 20 *
Benzo(k)fluoranthene, Solid	ug/Kg	6973.200	3953.440	3939.000	3469.391	89	% 44-130
Benzo(a)pyrene, Solid	ug/Kg	10594.052	4172.159	3939.000	3720.833	152 175	R 20 * % 53-121 *
Indeno(1,2,3-cd)pyrene, Solid	ug/Kg	8504.703	3733.264	3939.000	2355.671	176 156	R 20 * % 49-136 *
Dibenzo(a,h)anthracene, Solid	ug/Kg	6015.296	3801.491	3939.000	1078.335	127 125 58	% 55-131
Benzo(ghi)perylene, Solid	ug/Kg	8656.345	3915.986	3939.000	2551.533	155 126	R 20 * % 48-139 * R 20 *



Job Number.: 211927

QUALITY CONTROL RESULTS
Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN:

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

Test Method.....: 8260B Equipment Code...: GCL5 Analyst...: jso
Method Description: Volatile Organics Batch.................. 63482

EB1 Extraction Blank 1				63411 -006		09	/15/2002 1328
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits f
Dichlorodifluoromethane, Solid	ug/Kg	0.750 U				***************************************	
Chloromethane, Solid	ug/Kg	0.940 U					
Vinyl chloride, Solid	ug/Kg	0.740 U					
Bromomethane, Solid	ug/Kg	2.900 U					
Chloroethane, Solid	ug/Kg	1.600 ປ					
Trichlorofluoromethane, Solid	ug/Kg	0.710 U					
1,1-Dichloroethene, Solid	ug/Kg	1.000 U					
Carbon disulfide, Solid	ug/Kg	2.000 U					
Acetone, Solid	ug/Kg	4.100 U					
Methylene chloride, Solid	ug/Kg	1.800 U					
trans-1,2-Dichloroethene, Solid	ug/Kg	0.940 U					
Methyl-tert-butyl-ether (MTBE), Solid	ug/Kg	0.640 U					
1,1-Dichloroethane, Solid	ug/Kg	0.880 U					
2,2-Dichloropropane, Solid	ug/Kg	1.300 U					
cis-1,2-Dichloroethene, Solid	ug/Kg	1.200 U					
2-Butanone (MEK), Solid	ug/Kg	4.200 U					
Bromochloromethane, Solid	ug/Kg	0.990 U					
Chloroform, Solid	ug/Kg	0.620 U					
1,1,1-Trichloroethane, Solid	ug/Kg	0.610 U					
1,1-Dichloropropene, Solid	ug/Kg	0.800 U					
Carbon tetrachloride, Solid	ug/Kg	0.830 U					
Benzene, Solid	ug/Kg	0.660 U					
1,2-Dichloroethane, Solid	ug/Kg	0.580 U					
Trichloroethene, Solid	ug/Kg	0.590 U					
1,2-Dichloropropane, Solid	ug/Kg	0.960 U					
Dibromomethane, Solid	ug/Kg	0.690 U					
Bromodichloromethane, Solid	ug/Kg	0.680 U					
cis-1,3-Dichloropropene, Solid	ug/Kg	0.790 U					
4-Methyl-2-pentanone (MIBK), Solid	ug/Kg	3.000 U					
Toluene, Solid	ug/Kg	1.000 U					
trans-1,3-Dichloropropene, Solid	ug/Kg	0.840 U					
1,1,2-Trichloroethane, Solid	ug/Kg	0.710 U					
Tetrachloroethene, Solid	ug/Kg	0.670 U					
1,3-Dichloropropane, Solid	ug/Kg ug/Kg	0.930 U					
2-Hexanone, Solid	ug/Kg ug/Kg	1.700 U					
Dibromochloromethane, Solid	ug/Kg ug/Kg	0.690 U					
1,2-Dibromoethane (EDB), Solid	ug/Kg ug/Kg	0.760 U					
Chlorobenzene, Solid		0.910 U					
1,1,1,2-Tetrachloroethane, Solid	ug/Kg	0.730 U					
	ug/Kg	1.100 U					
Ethylbenzene, Solid	ug/Kg						
m&p-Xylenes, Solid	ug/Kg	2.100 U 0.9 <b>3</b> 0 U					
o-Xylene, Solid	ug/Kg						
Styrene, Solid	ug/Kg	1.000 U					
Bromoform, Solid	ug/Kg	0.910 U					
Isopropylbenzene, Solid	ug/Kg	0.750 U					
Bromobenzene, Solid	ug/Kg	0.710 U					
1,1,2,2-Tetrachloroethane, Solid	ug/Kg	0.640 U					
1,2,3-Trichloropropane, Solid	ug/Kg	1.100 U					
n-Propylbenzene, Solid	ug/Kg	0.860 U					
2-Chlorotoluene, Solid	ug/Kg	1.000 U					



	Job Number.: 211927	QUA	LITY CO	NT	ROL R	ESULTS	Report	Date.: 09/	26/2002	
CUSTOMER:	SCS Engineers, Inc.		PROJECT: (	SA -	SLOP		ATTN:			
QC Type	Descript	ion		Reag.	Code	Lab ID	Diluti	on Factor	Date	Time
EB1	Extraction Blank 1					63411 -006			09/15/2	002 1328
Раг	ameter/Test Description	Units	QC Result	Q	C Result	True Value	Orig. Va	lue QC Ca	lc. *	Limits
4-Chlorotoli tert-Butylbe 1,2,4-Trime sec-Butylber p-Isopropyl n-Butylbenze 1,2-Dibromo	enzene, Solid thylbenzene, Solid nzene, Solid toluene, Solid	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	0.580 0.770 0.780 0.820 0.810 0.680 0.840 1.100	U U U U U U U						



Job Number.: 211927

QUALITY CONTROL RESULTS
Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

ATTN:

QC Type

Description

Reag. Code

Lab ID

Dilution Factor

Date

Time

Test Method.....: 8260B Equipment Code...: GCL5 Analyst...: jso Method Description: Volatile Organics Batch.....: 63482

Parameter/Test Description	Units	QC Result	QC	Result	True Value	Orig.	Value	QC Calc.	*	Limits
Dichlorodifluoromethane, Solid	ug/Kg	0.750								
Chloromethane, Solid	ug/Kg	0.940								
Vinyl chloride, Solid	ug/Kg	0.740								
Bromomethane, Solid	ug/Kg	2.900								
Chloroethane, Solid	ug/Kg	1.600								
Trichlorofluoromethane, Solid	ug/Kg	0.710								
1,1-Dichloroethene, Solid	ug/Kg	1.000								
Carbon disulfide, Solid	ug/Kg	2,000								
Acetone, Solid	ug/Kg	4.100								
Methylene chloride, Solid	ug/Kg	1.800								
trans-1,2-Dichloroethene, Solid	ug/Kg	0.940								
Methyl-tert-butyl-ether (MTBE), Solid	ug/Kg	0.640								
1,1-Dichloroethane, Solid	ug/Kg	0.880								
2,2-Dichloropropane, Solid	ug/Kg	1,300								
cis-1,2-Dichloroethene, Solid	ug/Kg	1,200								
2-Butanone (MEK), Solid	ug/Kg	4.200								
Bromochloromethane, Solid	ug/Kg	0.990								
Chloroform, Solid	ug/Kg	0.620								
1,1,1-Trichloroethane, Solid	ug/Kg	0.610								
1,1-Dichloropropene, Solid	ug/Kg	0.800								
Carbon tetrachloride, Solid	ug/Kg	0.830								
Benzene, Solid	ug/Kg	0.660								
1,2-Dichloroethane, Solid	ug/Kg	0.580								
Trichloroethene, Solid	ug/Kg	0.590								
1,2-Dichloropropane, Solid	ug/Kg	0.960								
Dibromomethane, Solid	ug/Kg	0.690	U							
Bromodichloromethane, Solid	ug/Kg	0,680								
cis-1,3-Dichloropropene, Solid	ug/Kg	0.790	U							
4-Methyl-2-pentanone (MIBK), Solid	ug/Kg	3.000	U							
Toluene, Solid	ug/Kg	1.000	U							
trans-1,3-Dichloropropene, Solid	ug/Kg	0.840	U							
1,1,2-Trichloroethane, Solid	ug/Kg	0.710	U							
Tetrachloroethene, Solid	ug/Kg	0.670								
1,3-Dichloropropane, Solid	ug/Kg	0.930	U							
2-Hexanone, Solid	ug/Kg	1.700	U							
Dibromochloromethane, Solid	ug/Kg	0.690	U							
1,2-Dibromoethane (EDB), Solid	ug/Kg	0.760	U							
Chlorobenzene, Solid	ug/Kg	0.910	U							
1,1,1,2-Tetrachloroethane, Solid	ug/Kg	0.730	Ü							
Ethylbenzene, Solid	ug/Kg	1.100	U							
m&p-Xylenes, Solid	ug/Kg	2.100	U							
o-Xylene, Solid	ug/Kg	0.930	U							
Styrene, Solid	u <b>g/</b> Kg	1.000	U							
Bromoform, Solid	u <b>g/K</b> g	0.910	U							
Isopropylbenzene, Solid	ug/Kg	0.750								
Bromobenzene, Solid	ug/Kg	0.710	U							
1,1,2,2-Tetrachloroethane, Solid	ug/Kg	0.640								
1,2,3-Trichloropropane, Solid	ug/Kg	1.100								
n-Propylbenzene, Solid	ug/Kg	0.860								
2-Chlorotoluene, Solid	ug/Kg	1.000								



Job Number.: 211927	QUA	LITY CO	NTROL R	ESULTS	Report Date.: 09/2	26/2002
CUSTOMER: SCS Engineers, Inc.		PROJECT: GS	A - SLOP		ATTN:	
QC Type Descript	ion	R	eag. Code	Lab ID	Dilution Factor	Date Time
EB3 DI Blank				63411 -007		09/15/2002 1357
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC Cal	.c. * Limits
1,3,5-Trimethylbenzene, Solid 4-Chlorotoluene, Solid tert-Butylbenzene, Solid 1,2,4-Trimethylbenzene, Solid sec-Butylbenzene, Solid p-Isopropyltoluene, Solid n-Butylbenzene, Solid 1,2-Dibromo-3-chloropropane, Solid 1,2,3-Trichlorobenzene, Solid	ug/Kg	0.580 0.770 0.780 0.820 0.810 0.680 0.840 1.100 0.990	U U U U U U			



Job Number.: 211927

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

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

ATTN:

QC Type

Description

Reag. Code

Lab ID

Dilution Factor

Date

Time

Test Method.....: 8260B Equipment Code...: GCL5 Analyst...: jso
Method Description: Volatile Organics Batch......: 63482

LCS Laboratory Control Sampl	e	V021	15DSB	62817 -016		9/15/	2002 1201
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC Calc.	*	Limits
Dichlorodifluoromethane, Solid	ug/Kg	70,395		50.000	0.750 U 141	%	43-121
Chloromethane, Solid	ug/Kg	50.080		50.000	0.940 U 100	%	45-141
Vinyl chloride, Solid	ug/Kg	60.704		50.000	0.740 U 121	%	58-140
Bromomethane, Solid	ug/Kg	32.301		50.000	2.900 U 65	%	48-127
Chloroethane, Solid	ug/Kg	73.316		50.000	1.600 ⊍ 147	%	59-163
Trichlorofluoromethane, Solid	ug/Kg	52,711		50.000	0.710 U 105	%	57-135
1,1-Dichloroethene, Solid	ug/Kg	48,094		50,000	1.000 U 96	%	51-132
Carbon disulfide, Solid	ug/Kg	39.557		50.000	2.000 U 79	%	23~138
Acetone, Solid	ug/Kg	53.687		50,000	4.100 U 107	%	46-167
Methylene chloride, Solid	ug/Kg	54.369		50.000	1.800 U 109	%	58-143
trans-1,2-Dichloroethene, Solid	ug/Kg	49,171		50.000	0.940 U 98	%	58-139
Methyl-tert-butyl-ether (MTBE), Solid	ug/Kg	53.644		50.000	0.640 U 107	%	61-132
1,1-Dichloroethane, Solid	ug/Kg	51.746		50.000	0.880 U 103	%	63-133
2,2-Dichloropropane, Solid	ug/Kg	54.497		50.000	1.300 U 109	%	67-134
cis-1,2-Dichloroethene, Solid	ug/Kg	52,230		50.000	1.200 U 104	%	68-148
2-Butanone (MEK), Solid	ug/Kg	44.140		50.000	4.200 U 88	%	50-150
Bromochloromethane, Solid	ug/Kg ug/Kg	52.090		50.000	0.990 U 104	%	68-129
Chloroform, Solid	ug/Kg ug/Kg	53.334		50.000	0.620 U 107	%	73-135
1,1,1-Trichloroethane, Solid	ug/kg ug/Kg	52.991		50.000	0.610 U 106	%	63-133
1,1-Dichloropropene, Solid	ug/Kg ug/Kg	51.207		50.000	0.800 U 102	%	78-148
Carbon tetrachloride, Solid	ug/Kg ug/Kg	53.109		50.000	0.830 U 106	%	67-127
Benzene, Solid		52.634		50,000	0,660 U 105	%	72-128
1,2-Dichloroethane, Solid	ug/Kg ug/Kg	54.397		50.000	0.580 U 109	%	69-125
Trichloroethene, Solid	ug/Kg ug/Kg	51.345		50.000	0.590 U 103	%	75-129
1,2-Dichloropropane, Solid	ug/Kg ug/Kg	53.562		50.000	0.960 U 107	%	76-132
Dibromomethane, Solid	ug/Kg ug/Kg	52.461		50.000	0.690 U 105	%	70-130
•		54.010		50.000	0.680 U 108	%	74-128
Bromodichloromethane, Solid	ug/Kg	53,656					80-124
cis-1,3-Dichloropropene, Solid	ug/Kg			52.000		% %	
4-Methyl-2-pentanone (MIBK), Solid	ug/Kg	51.420		50.000			68-134 35-135
Toluene, Solid	ug/Kg	52.862		50.000	1.000 U 106	%	75 - 125
trans-1,3-Dichloropropene, Solid	ug/Kg	50.114		48.000	0.840 U 104	%	75 - 134
1,1,2-Trichloroethane, Solid	ug/Kg	52.666		50.000	0.710 U 105	%	71-143
Tetrachloroethene, Solid	ug/Kg	49.717		50.000	0.670 U 99	%	75-129
1,3-Dichloropropane, Solid	ug/Kg	51.201		50.000	0.930 U 102	%	78-127
2-Hexanone, Solid	ug/Kg	49.057		50.000	1.700 U 98	%	69-140
Dibromochloromethane, Solid	ug/Kg	50.123		50.000	0.690 U 100	%	77-127
1,2-Dibromoethane (EDB), Solid	ug/Kg	52.086		50.000	0.760 U 104	%	72-133
Chlorobenzene, Solid	ug/Kg	50.746		50.000	0.910 U 101	%	83~125
1,1,1,2-Tetrachloroethane, Solid	ug/Kg	51.342		50.000	0.730 U 103	%	83-123
Ethylbenzene, Solid	ug/Kg	51.979		50.000	1.100 U 104	%	79-123
m&p-Xylenes, Solid	ug/Kg	107.138		100.000	2.100 U 107	%	79-123
o-Xylene, Solid	ug/Kg	52.952		50.000	0.930 U 106	%	80-123
Styrene, Solid	ug/Kg	52.681		50.000	1.000 U 105	%	85~126
Bromoform, Solid	ug/Kg	49.225		50.000	0.910 U 98	%	78-132
Isopropylbenzene, Solid	ug/Kg	47.548		50.000	0.750 U 95	%	77-118
Bromobenzene, Solid	ug/Kg	47.582		50.000	0.710 U 95	%	81-123
1,1,2,2-Tetrachloroethane, Solid	ug/Kg	47.417		50.000	0.640 U 95	%	68-139
1,2,3-Trichloropropane, Solid	ug/Kg	47.250		50.000	1.100 U 95	%	71-129
n-Propylbenzene, Solid	ug/Kg	48.442		50.000	0.860 U 97	%	77~124
2-Chlorotoluene, Solid	ug/Kg	48.,939		50.000	1.000 U 98	%	63 - 137

Page 80 \* %=% REC, R=RPD, A=ABS Diff., D=% Diff.



	Job Number.: 211927	QUA	LITY	CONTROL	RESULTS	Report Date.: 09/	26/2002	
CUSTOMER: S	CS Engineers, Inc.		PROJECT	T: GSA - SLOP		ATTN:		
QC Type	Descript:	on		Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Samp	le		V021150SB	62817 -016		09/15/20	1201
Para	meter/Test Description	Units	QC Resu	ult QC Result	True Value	Orig. Value QC Ca	lc. * L	imits
1,3,5-Trimet	hylbenzene, Solid	ug/Kg	50.	175	50.000	0.580 U 100		72-128
4-Chiorotolu		ug/Kg	50.0		50.000	0.770 U 100	%	76-123
	enzene, Solid	ug/Kg	49.2		50.000	0.780 U 98	%	79-124
	hylbenzene, Solid	ug/Kg	52.5		50.000	0.820 U 105	%	74-133
sec-Butylben	nzene, Solid	ug/Kg	50.5	568	50.000	0.810 U 101	%	77-128
o-Isopropylt	oluene, Solid	ug/Kg	52.4	454	50.000	0.680 U 105	%	74-126
n-Butylbenze		ug/Kg	54.5	577	50.000	0.840 U 109	%	65-138
1,2-Dibromo-	3-chloropropane, Solid	ug/Kg	46.7	703	50.000	1.100 U 93	%	59-124
1,2,3-Trichl	orobenzene, Solid	ug/Kg	48.1	18 <del>9</del>	50.000	0.990 U 96	%	75-125



QUALITY CONTROL RESULTS

Reag. Code

Job Number.: 211927

Report Date.: 09/26/2002

Dilution Factor

PROJECT: GSA - SLOP CUSTOMER: SCS Engineers, Inc. ATTN:

Date

Time

Test Method.....: 8260B

QC Type

Method Description.: Volatile Organics

Description

Equipment Code...: GCL5

Batch..... 63482

Lab ID

Analyst...: jso

LCS Laboratory Control Sampl	e	V02)	190SB	63292 -009	C	9/19/	2002 1018
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC Calc.	*	Limits 1
Dichlorodifluoromethane, Solid	ug/Kg	50.654		50.000	0.750 U 101	%	43-121
Chloromethane, Solid	ug/Kg	43.040		50.000	0.940 U 86	%	45~141
Vinyl chloride, Solid	ug/Kg	50.011		50.000	0.740 U 100	%	58-140
Bromomethane, Solid	ug/Kg	31.147		50.000	2.900 U 62	%	48-127
Chloroethane, Solid	ug/Kg	58.062		50.000	1.600 U 116	%	59-163
Trichlorofluoromethane, Solid	ug/Kg	46.585		50.000	0.710 U 93	%	57-135
1,1-Dichloroethene, Solid	ug/Kg	46.377		50.000	1.000 U 93	%	51-132
Carbon disulfide, Solid	ug/Kg	46.060		50.000	2.000 U 92	%	23-138
Acetone, Solid	ug/Kg	57.851		50.000	4.100 U 116	%	46-167
Methylene chloride, Solid	ug/Kg	42.030		50.000	1.800 U 84	%	58-143
trans-1,2-Dichloroethene, Solid	ug/Kg	46.300		50.000	0.940 U 93	%	58-139
Methyl-tert-butyl-ether (MTBE), Solid	ug/Kg	49.644		50.000	0.640 U 99	%	61-132
1,1-Dichloroethane, Solid	ug/Kg	45.932		50.000	0.880 U 92	%	63-133
2,2-Dichloropropane, Solid	ug/Kg	48.371		50.000	1.300 U 97	%	67-134
cis-1,2-Dichloroethene, Solid	ug/Kg	48.808		50.000	1.200 U 98	%	68-148
2-Butanone (MEK), Solid	ug/Kg	57.572		50.000	4.200 U 115	%	50~150
Bromochloromethane, Solid	ug/Kg	34.767		50.000	0. <b>99</b> 0 U 70	%	68-129
Chloroform, Solid	ug/Kg	45.495		50.000	0.620 U 91	%	73-135
1,1,1-Trichloroethane, Solid	ug/Kg	48.278		50.000	0.610 U 97	%	63-133
1,1-Dichloropropene, Solid	ug/Kg	45.418		50.000	0.800 U 91	%	78-148
Carbon tetrachloride, Solid	ug/Kg	40.966		50.000	0.830 U 82	%	67-127
Benzene, Solid	ug/Kg	46.420		50.000	0.660 บ 93	%	72-128
1,2-Dichloroethane, Solid	ug/Kg	44.756		50.000	0.580 U 90	%	69-125
Trichloroethene, Solid	ug/Kg	39.080		50.000	0.590 U 78	%	75 - 129
1,2-Dichloropropane, Solid	ug/Kg	42.969		50.000	0.960 U 86	%	76-132
Dibromomethane, Solid	ug/Kg	37.881		50.000	0.690 U 76	%	70-130
Bromodichloromethane, Solid	ug/Kg	39.034		50.000	0.680 U 78	%	74-128
cis-1,3-Dichloropropene, Solid	ug/Kg	44.550		52.000	0.790 U 86	%	80-124
4-Methyl-2-pentanone (MIBK), Solid	ug/Kg	57.299		50.000	3.000 U 115	%	68-134
Toluene, Solid	ug/Kg	48.226		50.000	1.000 U 96	%	75 - 125
trans-1,3-Dichloropropene, Solid	ug/Kg	42.360		48.000	0.840 U 88	%	75 - 134
1,1,2-Trichloroethane, Solid	ug/Kg	49.667		50.000	0.710 U 99	%	71 - 143
Tetrachloroethene, Solid	ug/Kg	38.123		50.000	0.670 U 76	%	75-129
1,3-Dichloropropane, Solid	ug/Kg	45.628		50.000	0.930 U 91	%	78-127
2-Hexanone, Solid	ug/Kg	60.073		50,000	1.700 U 120	%	69-140
Dibromochloromethane, Solid	ug/Kg	36.563		50.000	0.690 U 73	%	77-127
1,2-Dibromoethane (EDB), Solid	ug/Kg	41.100		50,000	0.760 U 82	%	72 - 133
Chlorobenzene, Solid	ug/Kg	44.528		50,000	0.910 U 89	%	83-125
1,1,1,2-Tetrachloroethane, Solid	ug/Kg	40.136		50.000	0.730 U 80	%	83-123
Ethylbenzene, Solid	ug/Kg	49.116		50.000	1.100 U 98	%	79-123
m&p-Xylenes, Solid	ug/Kg	99.282		100.000	2.100 U 99	%	79-123
o-Xylene, Solid	ug/Kg	47.065		50.000	0.9 <b>3</b> 0 U 94	%	80-123
Styrene, Solid	ug/Kg	48.735		50.000	1.000 U 97	%	85-126
Bromoform, Solid	ug/Kg	38.474		50.000	0.910 U 77	%	78-132
Isopropylbenzene, Solid	ug/Kg	54.976		50.000	0.750 U 110	%	77-118
Bromobenzene, Solid	ug/Kg	43.184		50.000	0.710 U 86	%	81-123
1,1,2,2-Tetrachloroethane, Solid	ug/Kg	48.681		50.000	0.640 U 97	%	68-139
1,2,3-Trichloropropane, Solid	ug/Kg	54.214		50.000	1.100 U 108	%	71-129
n-Propylbenzene, Solid	ug/Kg	51.402		50.000	0.860 U 103	%	77-124
2-Chlorotoluene, Solid	ug/Kg	50.591		50.000	1.000 U 101	%	63-137



	Job Number.: 211927	QUALITY	CONTROL		Report Date.: 09/2	26/2002	
CUSTOMER: SO	S Engineers, Inc.	PROJECT	: GSA - SLOP		ATTN:		
QC Type	Descriptio	n	Reag. Code	Lab ID	Dilution Factor	Date	Time

Parameter/Test Description	Unīts	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits
,3,5-Trimethylbenzene, Solid	ug/Kg	54.124		50,000	0.580 L	108	/-	72-128
-Chlorotoluene, Solid	ug/Kg	50.524		50.000	0.770 L	101	%	76-123
ert-Butylbenzene, Solid	ug/Kg	52.346		50.000	0.780 L	105	%	79~124
2,4-Trimethylbenzene, Solid	ug/Kg	55.892		50.000	0.820 L	112	%	74 - 133
c-Butylbenzene, Solid	ug/Kg	56,419		50.000	0.810 L	113	%	77-128
Isopropyltoluene, Solid	ug/Kg	53.016		50.000	0.680 €	106	%	74-126
Butylbenzene, Solid	ug/Kg	55.126		50.000	0.840 L	110	%	65-138
2-Dibromo-3-chloropropane, Solid	ug/Kg	46.734		50.000	1.100 U	93	%	59-124
,2,3-Trichlorobenzene, Solid	ug/Kg	53.130		50.000	0.990 L	106	%	75 - 125



Job Number.: 211927

QUALITY CONTROL RESULTS

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

ATTN:

QC Type

Description

Reag. Code

Lab ID

Dilution Factor

Date Time

Test Method.....: 8260B Equipment Code...: GCL5 Analyst...: jso
Method Description: Volatile Organics Batch......: 63482

MB Method Blank				62817 -015		09	/15/2002 1128
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits F
Dichlorodifluoromethane, Solid	ug/Kg	0.750					
Chloromethane, Solid	ug/Kg	0.940	U				
Vinyl chloride, Solid	ug/Kg		U				
Bromomethane, Solid	ug/Kg		U				
Chloroethane, Solid	ug/Kg		U				
Trichlorofluoromethane, Solid	ug/Kg		U				
1,1-Dichloroethene, Solid	ug/Kg		U				
Carbon disulfide, Solid	ug/Kg	2.000					
Acetone, Solid	ug/Kg		U				
Methylene chloride, Solid	ug/Kg		υ				
trans-1,2-Dichloroethene, Solid	ug/Kg		υ				
Methyl-tert-butyl-ether (MTBE), Solid	ug/Kg		υ				
1,1-Dichloroethane, Solid	ug/Kg		U				
2,2-Dichloropropane, Solid	ug/Kg	1.300					
cis-1,2-Dichloroethene, Solid	ug/Kg		U				
2-Butanone (MEK), Solid	ug/Kg		U				
Bromochloromethane, Solid	ug/Kg		U				
Chloreform, Solid	ug/Kg		U				
1,1,1-Trichloroethane, Solid	ug/Kg		U				
1,1-Dichloropropene, Solid	ug/Kg	0.800					
Carbon tetrachloride, Solid	ug/Kg		U				
Benzene, Solid	ug/Kg		U				
1,2-Dichloroethane, Solid	ug/Kg	0.580					
Trichloroethene, Solid	ug/Kg		U				
1,2-Dichloropropane, Solid	ug/Kg		U				
Dibromomethane, Solid	ug/Kg	0.690					
Bromodichloromethane, Solid	ug/Kg		U				
cis-1,3-Dichloropropene, Solid	ug/Kg		U				
4-Methyl-2-pentanone (MIBK), Solid	ug/Kg	3.000					
Toluene, Solid	ug/Kg	1.000					
trans-1,3-Dichloropropene, Solid	ug/Kg	0.840					
1,1,2-Trichloroethane, Solid	ug/Kg	0.710					
Tetrachloroethene, Solid	ug/Kg	0.670					
1,3-Dichloropropane, Solid	ug/Kg		U				
2-Hexanone, Solid	ug/Kg	1.700					
Dibromochloromethane, Solid	ug/Kg		U				
1,2-Dibromoethane (EDB), Solid	ug/Kg		U				
Chlorobenzene, Solid	ug/Kg		U				
1,1,1,2-Tetrachloroethane, Solid	ug/Kg	0.730					
Ethylbenzene, Solid	ug/Kg		U				
m&p-Xylenes, Solid	ug/Kg		U				
o-Xylene, Solid	ug/Kg		U				
Styrene, Solid	ug/Kg		U U				
Bromoform, Solid	ug/Kg	0.910	U				
Isopropylbenzene, Solid	ug/Kg						
Bromobenzene, Solid	ug/Kg	0.710					
1,1,2,2-Tetrachloroethane, Solid	ug/Kg		U				
1,2,3-Trichloropropane, Solid	ug/Kg		U				
n-Propylbenzene, Solid	ug/Kg	0.860					
2-Chlorotoluene, Solid	ug/Kg	1.000	υ				



	Job Number.: 211927	QUAI	ITY C	ON	TROL R	ESULTS	Repo	ort Date	2.: 09/	26/2002	
CUSTOMER: SO	CS Engineers, Inc.		PROJECT:	GSA	- SLOP		ATTN	):			
QC Туре	Descript	ìon		Rea	ag. Code	Lab ID	Dil	ution F	actor	Date	e Tîme
MB	Method Blank					62817 -015				09/15,	/2002 1128
Paran	neter/Test Description	Units	QC Result		QC Result	True Value	Orig.	Value	QC Ca	lc. *	Limits
4-Chlorotolue tert-Butylber 1,2,4-Trimeth sec-Butylbenz p-Isopropylton-Butylbenzer 1,2-Dibromo-3	nzene, Solid nylbenzene, Solid zene, Solid bluene, Solid	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	0.580 0.770 0.780 0.820 0.810 0.680 0.840 0.990						anne en		



QUALITY CONTROL RESULTS

Job Number .: 211927

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

Reag. Code

Description QC Type

Dilution Factor Date

Tîme

Test Method..... 8260B

Method Description.: Volatile Organics

Equipment Code...: GCL5 Batch..... 63482

Lab ID

ATTN:

Analyst...: jso

Denometer/Test Description	llm i to	- Lucas 20	DC Dear 1+	True Value	Onia Malica	00 0-1-	* 155.
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	wi taic.	* Limits
ichlorodifluoromethane, Solid	ug/Kg	0.750					
hloromethane, Solid	ug/Kg	0.940					
inyl chloride, Solid	ug/Kg	0.740					
romomethane, Solid	ug/Kg	2.900					
nloroethane, Solid	ug/Kg	1.600					
ichlorofluoromethane, Solid	ug/Kg	0.710					
,1-Dichloroethene, Solid	ug/Kg	1,000					
arbon disulfide, Solid	ug/Kg	2.000	U				
cetone, Solid	ug/Kg	4.100	U				
ethylene chloride, Solid	ug/Kg	1.800 0.940	U				
rans-1,2-Dichloroethene, Solid	ug/Kg	0.640					
ethyl-tert-butyl-ether (MTBE), Solid	ug/Kg	0.880	U				
.1-Dichloroethane, Solid .2-Dichloropropane, Solid	ug/Kg	1.300	U				
s-1,2-Dichloroethene, Solid	ug/Kg ug/Kg	1.200					
-Butanone (MEK), Solid	ug/Kg	4.200					
romochloromethane, Solid	ug/Kg ug/Kg	0.990					
nloroform, Solid	ug/Kg ug/Kg	0.620					
,1,1-Trichloroethane, Solid	ug/Kg ug/Kg	0.610					
1-Dichloropropene, Solid	ug/Kg ug/Kg	0.800					
arbon tetrachloride, Solid	ug/Kg ug/Kg	0.830					
enzene, Solid	ug/Kg	0.660					
,2-Dichloroethane, Solid	ug/Kg	0.580					
richloroethene, Solid	ug/Kg	0.590					
,2-Dichloropropane, Solid	ug/Kg	0.960					
ibromomethane, Solid	ug/Kg	0.690					
romodichloromethane, Solid	ug/Kg	0.680					
is-1.3-Dichloropropene, Solid	ug/Kg	0.790					
-Methyl-2-pentanone (MIBK), Solid	ug/Kg	3.000					
oluene, Solid	ug/Kg	1.000					
rans-1,3-Dichloropropene, Solid	ug/Kg	0.840	Ū				
1.2-Trichloroethane, Solid	ug/Kg	0.710					
etrachloroethene, Solid	ug/Kg	0.670					
.3-Dichloropropane, Solid	ug/Kg	0.930					
-Hexanone, Solid	ug/Kg	1.700					
ibromochloromethane, Solid	ug/Kg	0.690					i .
,2-Dibromoethane (EDB), Solid	ug/Kg	0.760	U				
hlorobenzene, Solid	ug/Kg	0.910					
,1,1,2-Tetrachloroethane, Solid	ug/Kg	0.730					
thylbenzene, Solid	ug/Kg	1.100	U				
&p-Xylenes, Solid	ug/Kg	2.100	U				
-Xylene, Solid	ug/Kg	0.930					
tyrene, Solid	ug/Kg	1.000					
romoform, Solid	ug/Kg	0.910					
sopropylbenzene, Solid	ug/Kg	0.750	U				
romobenzene, Solid	ug/Kg	0.710					
,1,2,2-Tetrachloroethane, Solid	ug/Kg	0.640					
,2,3-Trichloropropane, Solid	ug/Kg	1.100					
-Propylbenzene, Solid	ug/Kg	0.860					
-Chlorotoluene, Solid	ug/Kg	1.000					



	Job Number.: 211927	QUAI	. ITY CC	NTROL R	ESULTS	Report Date.: 09/	26/2002
CUSTOMER: S	SCS Engineers, Inc.		PROJECT: G	SA - SLOP		ATTN:	
QC Type	Descripti	ion	and description of the second	Reag. Code	Lab ID	Dilution Factor	Date Time
МВ	Method Blank				63292 -008		09/19/2002: 0934
Para	ameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC Ca	lc. * Limits
4-Chlorotolu tert-Butylbe 1,2,4-Trimet sec-Butylber p-Isopropylt n-Butylbenze 1,2-Dibromo-	enzene, Solid chylbenzene, Solid nzene, Solid coluene, Solid	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	0.580 0.770 0.780 0.820 0.810 0.680 0.840 1.100	U U U U U U			



	Q U A L I T Y Job Number.: 211927				Report Date.: 09/	26/2002	
CUSTOMER: S	CS Engineers, Inc.	PROJEC	CT: GSA - SLOP		ATTN: David Brewe		
QC Type	Description		Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 6010B Equipment Code...: ICP3 Analyst...: tds
Method Description: Metals Analysis (ICAP Trace) Batch......: 63630

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Valu	e QC Calc.	*	Limits
luminum, Solid	mg/Kg	205.53		200.00	2.50	В 103	- "%	80-120
ntimony, Solid	mg/Kg	44.89		50.00	0.90	U <del>9</del> 0	%	80-120
rsenic, Solid	mg/Kg	9.32		10.00	0.51	U <b>93</b>	%	80-120
arium, Solid	mg/Kg	190.35		200.00	0.16	U 95	%	80-120
eryllium, Solid	mg/Kg	4.46		5.00	0.04	U 89	%	80-120
admium, Solid	mg/Kg	4.57		5.00	0.08	U 91	%	80-120
ilcium, Solid	mg/Kg	924.21		1000.00	7.69	B 92	%	80-120
ıromium, Solid	mg/Kg	19.12		20.00	0.22	u 96	%	80-120
balt, Solid	mg/Kg	46.63		50.00	0.14	U 93	%	80-120
pper, Solid	mg/Kg	24.73		25.00	0.90	u 99	%	80-120
on, Solid	mg/Kg	100.05		100.00	4.18	в 100	%	80-120
ad, Solid	mg/Kg	9.85		10.00	0.43	U 98	%	80-120
gnesium, Solid	mg/Kg	943.36		1000.00	2.00	B 94	%	80-120
nganese, Solid	mg/Kg	47.92		50.00	0.13	U 96	%	80-120
ckel, Solid	mg/Kg	46.01		50.00	0.44	B 92	%	80-120
tassium, Solid	mg/Kg	872.98		1000.00	15.36	в 87	%	80-120
lenium, Solid	mg/Kg	9.47		10.00	0.40	U 95	%	80-120
lver, Solid	mg/Kg	4.66		5.00	0.31	U 93	%	80-120
allium, Solid	mg/Kg	9.55		10.00	0.66	U 95	%	80-120
nadium, Solid	mg/Kg	47.45		50.00	0.21	u 95	%	80-120
nc, Solid	mg/Kg	46.77		50.00	0.40	U 94	%	80-120

LCS Laboratory Control Samp	ole	Ņ	021SPK004	63406 -002		(	09/23/	2002 1400
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Valu	ue QC Calc.	. *	Limits F
Antimony, Solid	mg/Kg	46.39		50.00	0.90	U 93	%	80-120
Arsenic, Solid	mg/Kg	9.59		10.00	0.51	U 96	%	80-120
Barium, Solid	mg/Kg	197.01		200.00	0.16	U 99	%	80-120
Beryllium, Solid	mg/Kg	4.58		5.00	0.04	U 92	%	80-120
Cadmium, Solid	mg/Kg	4.66		5.00	0.08	U 93	%	80-120
Chromium, Solid	mg/Kg	19.86		20.00	0.22	U 99	%	80-120
Copper, Solid	mg/Kg	24.76		25.00	0.90	บ <b>99</b>	%	80-120
Iron, Solid	mg/Kg	92.66		100.00	5.06	93	%	80-120
Lead, Solid	mg/Kg	10.07		10.00	0.43	บ 101	%	80-120
Magnesium, Solid	mg/Kg	959.63		1000.00	1.70	U 96	%	80-120
Manganese, Solid	mg/Kg	49.33		50.00	0.13	U 99	%	80-120
Nickel, Solid	mg/Kg	46.64		50.00	0.25	U 93	%	80-120
Potassium, Solid	mg/Kg	817.08		1000.00	20.10	B 82	%	80-120
Selenium, Solid	mg/Kg	9.22		10.00	0.40	U 92	%	80-120
Silver, Solid	mg/Kg	4.86		5.00	0.31	u 97	%	80-120
Thallium, Solid	mg/Kg	9.71		10.00	0.66	U 97	%	80-120
Vanadium, Solid	mg/Kg	48.83		50.00	0.21	u 98	%	80-120
Zinc, Solid	mg/Kg	46.90		50.00	0.40	U 94	%	80-120



QUALITY CONTROL RESULTS
Job Number.: 211927 Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN:

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

Test Method.....: 6010B Equipment Code...: ICP3 Analyst...: tds
Method Description: Metals Analysis (ICAP Trace) Batch..........: 63630

Parameter/Test Description	Units	QC Result	QC	Result	True \	/atue	Orig.	Value	QC	Calc.	*	Limits	
Nluminum, Solid	mg/Kg	2.50	В	,								**************************************	
Antimony, Solid	mg/Kg	0.90	U										
Arsenic, Solid	mg/Kg	0.51	U										
Barium, Solid	mg/Kg	0.16	U										
Beryllium, Solid	mg/Kg	0.04	U										
Cadmium, Solid	mg/Kg	0.08	U										
Calcium, Solid	mg/Kg	7.69	В										
Chromium, Solid	mg/Kg	0.22	U										
Cobalt, Solid	mg/Kg	0.14	U										
Copper, Solid	mg/Kg	0.90	U										
fron, Solid	mg/Kg	4.18	В										
ead, Solid	mg/Kg	0.43	U										
tagnesium, Solid	mg/Kg	2.00	8										
Manganese, Solid	mg/Kg	0.13	U										
lickel, Solid	mg/Kg	0.44	В										
otassium, Solid	mg/Kg	15.36	8										
Selenium, Solid	mg/Kg	0.40	U										
Gilver, Solid	mg/Kg	0.31	U										
hallium, Solid	mg/Kg	0.66	U										
/anadium, Solid	mg/Kg	0.21	U										
linc, Solid	mg/Kg	0.40	U										

Parameter/Test Description	Units	QC Result		QC Result	True	Value	Orig.	Value	QC Calc.	*	Limits	F
Antimony, Solid	mg/Kg	0.90	U	······································	·· ·······			······			~ <del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>	- —
Arsenic, Solid	mg/Kg	0.51	U									
Barium, Solid	mg/Kg	0.16	U									
Beryllium, Solid	mg/Kg	0.04	U									
Cadmium, Solid	mg/Kg	0.08	U									
Chromium, Solid	mg/Kg	0.22	U									
Copper, Solid	mg/Kg	0.90	U									
Iron, Solid	mg/Kg	5.06										H
Lead, Solid	mg/Kg	0.43	ប									
Magnesium, Solid	mg/Kg	1.70	U									
Manganese, Solid	mg/Kg	0.13	U									
Nickel, Solid	mg/Kg	0.25	U									
Potassium, Solid	mg/Kg	20.10	В									
Selenium, Solid	mg/Kg	0.40	U									
Silver, Solid	mg/Kg	0.31	U									
Thallium, Solid	mg/Kg	0.66	Ų									
Vanadium, Solid	mg/Kg	0.21	U									
Zinc, Solid	mg/Kg	0.40	U									



7111	Job Number.: 211927	QUAL	ITY CO	NTROL R	RESULTS	Report Date.: 09/2	26/2002	
CUSTOMER: SC	S Engineers, Inc.		PROJECT: GS	A - SLOP		ATTN:		
QC Type	Descripti	on	R	eag. Code	Lab ID	Dilution Factor	Date	Time
мв	Method Blank		634	09	63409 -001		09/23/2002	1933
Parame	eter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC Cal	.c. * Lim	its I
Iron		mg/L	0.03960	U		**************************************		



QUALITY CONTROL RESULTS

Job Number.: 211927

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN:

QC Type Description Reag. Code Lab ID Dilution Factor

Date Time

Test Method......: 6010B Method Description.: Metals Analysis (ICAP Trace)  Analyst...: tds

MD Method Duplicate					211927-1			09	/23,	<sup>2002</sup> 115	7
Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Valu	e	QC Calc.	*	Limits	F
Aluminum, Solid	mg/Kg	9501.56	_			9942.37		4.5	R	20.0	**
Antimony, Solid	mg/Kg	0.69	U			0.69	U				
Arsenic, Solid	mg/Kg	5.75				5.68		1.2	R	20.0	
Barium, Solid	mg/Kg	111.15				140.05		23.0	R	20.0	*
Beryllium, Solid	mg/Kg	0.26	В			0.28	В	0.02	Α	0.31	
Cadmium, Solid	mg/Kg	0.26				0.16		0.09	Α	0.15	
Calcium, Solid	mg/Kg	54949.47				27222.77		67.5	R	20.0	*
Chromium, Solid	mg/Kg	17.39				17.65		1.5	R	20.0	
Cobalt, Solid	mg/Kg	5.76				6.09		5.5	R	20.0	
Copper, Solid	mg/Kg	12.30				13.17		6.8	R	20.0	
Iron, Solid	mg/Kg	13997.69				14479.63		3.4	R	20.0	
Lead, Solid	mg/Kg	15.94				19.30		19.1	R	20.0	
Magnesium, Solid	mg/Kg	3421.98				3305.96		3.4	R	20.0	
Manganese, Solid	mg/Kg	351.18				361.18		2.8	R	20.0	
Nickel, Solid	mg/Kg	13.70				14.07		2.6	R	20.0	
Potassium, Solid	mg/Kg	1286.04				1202.18		6.7	R	20.0	
Selenium, Solid	mg/Kg	0.31	u			0.31	U				
Silver, Solid	mg/Kg	0.24	U			0.24	Ų	0.04	Α	0.38	
Thallium, Solid	mg/Kg	0.50	U			0.50	Ų	0.03	Α	0.76	
Vanadium, Solid	mg/Kg	28.99				30.14		3.9	R	20.0	
Zinc, Solid	mg/Kg	61.49				56.20		9.0	R	20.0	



Job Number.: 211927

QUALITY CONTROL RESULTS
Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

ATTN:

QC Type

Description

Reag. Code

Lab ID

Dilution Factor

Date Time

Test Method.....: 6010B Equipment Code...: ICP3 Analyst...: tds
Method Description: Metals Analysis (ICAP Trace) Batch..........: 63630

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Valu	e QC Calc.	*	Limits	F
Aluminum, Solid	mg/Kg	12364.09		147.80	9942.37	1638	- %	75-125	- 4
Antimony, Solid	mg/Kg	12.65		36.96	0.67	U 34	%	75-125	1
Arsenic, Solid	mg/Kg	11.19		7.39	5.68	75	%	75-125	
Barium, Solid	mg/Kg	247.64		147.80	140.05	73	%	75-125	ħ
Beryllium, Solid	mg/Kg	3.12		3.70	0.28	B 84	%	75-125	
Cadmium, Solid	mg/Kg	3.00		3.70	0.16	77	%	75-125	
Calcium, Solid	mg/Kg	30126.48		739.10	27222.77	393	%	75-125	4
Chromium, Solid	mg/Kg	33.10		14.78	17.65	105	%	75 - 125	
Cobalt, Solid	mg/Kg	34.45		36.96	6.09	77	%	75 - 125	
Copper, Solid	mg/Kg	28.81		18.48	13.17	85	%	75 - 125	
Iron, Solid	mg/Kg	14560.86		73.91	14479.63	110	%	75 - 125	4
Lead, Solid	mg/Kg	20.92		7.39	19.30	22	%	75-125	N
Magnesium, Solid	mg/Kg	4116.51		739.10	3305.96	110	%	75-125	4
Manganese, Solid	mg/Kg	360.92		36.96	361.18	- 1	%	75 - 125	4
Nickel, Solid	mg/Kg	42.33		36.96	14.07	76	%	75-125	
Potassium, Solid	mg/Kg	2269.63		739.10	1202.18	144	%	75 - 125	N
Selenium, Solid	mg/Kg	5.83		7.39	0.30	U 79	%	75-125	
Silver, Solid	mg/Kg	3.19		3.70	0.23	U 86	%	75-125	
Thallium, Solid	mg/Kg	6.39		7.39	0.49	U 86	%	75 - 125	
Vanadium, Solid	mg/Kg	64.29		36.96	30.14	92	%	75-125	
Zinc, Solid	mg/Kg	87.41		36.96	56.20	84	%	75-125	



QUALITY CONTROL RESULTS

Job Number.: 211927

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

ATTN:

QC Type Description

Reag. Code

Dilution Factor

Date

Time

Test Method....: 6010B Method Description.: Metals Analysis (ICAP Trace)

Equipment Code....: ICP3 Batch..... 63630

Lab ID

Analyst...: tds

MSD Matrix Spike Duplicate		M02	ISPK004	211927-1		09	/23/2002 1209
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Valu	e QC Calc.	* Limits F
Aluminum, Solid	mg/Kg	13168.82	12364.09	146.70	9942.37	2199	% 75-125 4
Antimony, Solid	mg/Kg	13.27	12.65	36.68	0.66	29.2 U 36_	R 20 * % 75-125 N
Arsenic, Solid	mg/Kg	11.61	11.19	7.34	5,68	5.7 81	R 20 % 75-125
Barium, Solid	mg/Kg	469.91	247.64	146.70	140.05	7.7 225	R 20 % 75-125 N
Beryllium, Solid	mg/Kg	3.07	3.12	3.67	0.28	102.0 B 84	R 20 * % 75-125
Cadmium, Solid	mg/Kg	3.03	3.00	3.67	0.16	0.0 78	R 20 % 75-125
Calcium, Solid	mg/Kg	23273.12	30126.48	733.60	27222.77	1.3 -538	R 20 % 75-125 4
Chromium, Sotid	mg/Kg	42.31	33.10	14.67	17.65	-1284.1 168	R 20 % 75-125 N
Cobalt, Solid	mg/Kg	34.14	34.45	36.68	6.09	46.2 76	R 20 * % 75-125
Copper, Solid	mg/Kg	28.67	28.81	18.34	13.17	1.3 85	R 20 % 75-125
Iron, Solid	mg/Kg	15635.12	14560.86	73.36	14479.63	0.0 1575	R 20 % 75-125 4
Lead, Solid	mg/Kg	170.16	20.92	7.34	19.30	173.9 2057	% 75-125 N
Magnesium, Solid	mg/Kg	4066.22	4116.51	733.60	3305.96	195.8 104	R 20 * % 75-125 4
Manganese, Solid	mg/Kg	373.76	360.92	36 68	361.18	5.6 34	R 20 % 75-125 4
Nickel, Solid	mg/Kg	42.04	42.33	36.68	14.07	212.1 76	R 20 * 75-125
Potassium, Solid	mg/Kg	2370.19	2269.63	733.60	1202.18	0.0 159	R 20 % 75-125 N
Selenium, Solid	mg/Kg	5.76	5.83	7.34	0.29	9.9 U 79	R 20 % 75-125
Silver, Solid	mg/Kg	3.13	3.19	3.67	0.23	0.0 U 85	R 20 % 75-125
Thallium, Solid	mg/Kg	6.41	6.39	7.34	0.48	1.2 U 87	R 20 % 75-125
Vanadium, Solid	mg/Kg	66.13	64.29	36.68	30.14	1.2 98	R 20 % 75-125
Zinc, Solid	mg/Kg	105.69	87.41	36.68	56.20	6.3 135	R 20 % 75-125 N
						46.6	R 20 *



QUALITY CONTROL RESULTS
Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN:

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

Test Method.....: 6010B Equipment Code...: ICP3 Analyst...: tds
Method Description: Metals Analysis (ICAP Trace) Batch......: 63630

SD Serial Dilution					211927-1		09	/23,	/2002 12 <sup>,</sup>	15
Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	— F
Aluminum, Solid	mg/Kg	2252.89				9942.37	13.3	 D	10.0	<u>-</u> -
Antimony, Solid	mg/Kg	0.68	U			0.68	Ų			
Arsenic, Solid	mg/Kg	1.44				5.68				
Barium, Solid	mg/Kg	31.26				140.05	11.6	D	10.0	Ε
Beryllium, Solid	mg/Kg	0.07	В			0.28	В			
Cadmium, Solid	mg/Kg	0.06	U			0.16				
Calcium, Solid	mg/Kg	6040.98				27222.77	11.0	D	10.0	Ε
Chromium, Solid	mg/Kg	4.09				17.65	15.7	D	10.0	Ε
Cobalt, Solid	mg/Kg	1.42				6.09	16.9	D	10.0	Ε
Copper, Solid	mg/Kg	2.84				13.17				
Iron, Solid	mg/Kg	3325.70				14479.63	14.8	D	10.0	Ε
Lead, Solid	mg/Kg	4.48				19.30	16.1	D	10.0	E
Magnesium, Solid	mg/Kg	758.89				3305.96	14.8	D	10.0	Ε
Manganese, Solid	mg/Kg	83.19				361.18	15.2	D	10.0	Ε
Nickel, Solid	mg/Kg	3.33				14.07	18.2	D	10.0	Ε
Potassium, Solid	mg/Kg	226.07				1202.18	6.0	D	10.0	
Selenium, Solid	mg/Kg	0.30	U			0.30	J			
Silver, Solid	mg/Kg	0.24	U			0.24	J			
Thallium, Solid	mg/Kg	0.50	U			0.50	J			
Vanadium, Solid	mg/Kg	6.81				30.14	13.0	D	10.0	E
Zinc, Solid	mg/Kg	12.72				56.20	13.2	D	10.0	Ε



Job	Q U A L Number.: 211927	ITY CONTROL R	ESULTS	Report Date.: 09/	26/2002	٠
CUSTOMER: SCS En	gineers, Inc.	PROJECT: GSA - SLOP		ATTN;		
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
Test Method	: 6010B	Equipment Co	de: ICP4	Analy	st: tds	***************************************

LCS	Laboratory Control Samp	ile	M021	SPK004	62896 -002			09/	24/	<b>2</b> 002 <b>1</b> 140	)
	Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Va	lue Q	Calc.	*	Limits	F
Sodium,	Solid	mg/Kg	916.36		1000.00		92	2	%	80-120	



OF	b Number.: 211927	QUAŁ	ITY CC	ONTROL R	ESULTS	Report Date.: 09/2	26/2002
CUSTOMER: SCS E	ngineers, Inc.		PROJECT: 0	SSA - SLOP		ATTN:	
QC Type	Descript	ion		Reag. Code	Lab ID	Dilution Factor	Date Time
Test Method Method Descript	: 6010B ion.: Metals Analysis	s (ICAP Trace	)	Equipment Co Batch	de: ICP4 : 63672	Analys	st: tds
MB Me	thod Blank		62	2896	62896 -001		09/24/2002 1133
Paramete	r/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC Ca	lc. * Limits
Sodium, Solid		mg/Kg	86.70	U			



Date

Time

#### **STL Chicago**

QUALITY CONTROL RESULTS Job Number .: 211927 Report Date.: 09/26/2002 CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN: Description Dilution Factor

Reag. Code

Lab ID

Test Method.....: 6010B Equipment Code...: ICP4 Analyst...: tds Batch..... 63672 Method Description.: Metals Analysis (ICAP Trace)

QC Type

MD Method Duplicate 211927-1 09/24/2002 1152 Units \* Limits Parameter/Test Description QC Result QC Result True Value Orig. Value QC Calc. Sodium, Solid 795.29 757.25 R 20.0 mg/Kg 4.9



Orig. Value QC Calc.

105

757.25

\* Limits % 75-125

	QUALITY Job Number.: 211927	CONT	ROL	RESULTS	Report Date.: 09/	26/2002	
CUSTOMER: SO	CS Engineers, Inc. PROJEC	T: GSA -	SLOP		ATTN:		
QC Type	Description	Reag.	Code	Lab ID	Dilution Factor	Date	Tîme
	: 6010B ription.: Metals Analysis (ICAP Trace)			ode: ICP4 : 63672	Analy	st: tds	***************************************
MS	Matrix Spike	MO21SPK	:004	211927-1		09/24/200	)2 1158

QC Result

True Value

739.10

Units

mg/Kg

QC Result

1531.33

Parameter/Test Description

Sodium, Solid



	QUALI1 Job Number.: 211927	Y CONTR	OL R		Report Date.: 09/7	26/2002	
CUSTOMER: SO	CS Engineers, Inc. PF	DJECT: GSA - S	LOP		ATTN:		
QC Type	Description	Reag.	Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 6010B Equipment Code...: ICP4 Analyst...: tds
Method Description: Metals Analysis (ICAP Trace) Batch.....: 63672

MSD Matrix Spike Duplicate		M021	SPK004	211927-1		0	9/24/2002 1204
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits F
Sodium, Solid	mg/Kg	1527.79	1531.33	733.60	757.25	105 0.0	% 75-125 R 20



Orig. Value QC Calc.

757.25

\* Limits

Job Numb	er.: 211927		ESULTS	Report Date.: 09/2	6/2002
CUSTOMER: SCS Enginee	rs, Inc. PROJI	ECT: GSA - SLOP		ATTN:	
QC Туре	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
Test Method: Method Description:	6010B Metals Analysis (ICAP Trace)	Equipment Cod		Analys	t: tds

QC Result

True Value

Parameter/Test Description

Sodium, Solid

Units

mg/Kg

QC Result

158.45



		Job Number	.: 211927	QUAL	тту со	NTROL R	ESUL	TS	Report	Dat	e.: 09/26/2	002	
CL	JSTOMER: SC	S Engineers	, Inc.		PROJECT: GS	A - SLOP			ATTN:	Davi	d Brewer		
Me	thod Descr		Solids Det	ermination		Batch Equipment Coc		2415			Analyst Test Code	<ul> <li>4 4 5 5 4 6 1 7 6</li></ul>	
oc.	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. V	alue	QC Calc.	F	* Limits	Date	Time
<b>ЧВ</b>	62415-001	***************************************	%	0.1000 U		***************************************	****				<del> </del>	09/12/2002	0008
Me	thod Descr	: 90 iption.: Cy	anide (Col			Batch Equipment Coc					Analyst Test Code		
C	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. V	alue	QC Calc.	F	* Limits	Date	Time
	63170 -004 63170 -005	102FSTCN2	mg/L mg/L	0.00320 U 0.09640		0.09600	0.0	0320 U	100		% 80-120	09/18/2002 09/18/2002	
Me	thod Descr	45 iption.: Ph	osphorous,			Batch Equipment Cod		37 500 130 137 1			Analyst Test Code		
aC .	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. V	'alue	QC Calc.	F	* Limits	Date	Time
.CS 4S	63806 -004 63806 -005 211927-1 211927-1	IO2BSTPS2 IO2BSTPS2 IO2BSTPS2	mg/L mg/L mg/Kg mg/Kg	0.00600 B 0.52400 877.31 878.56	877.31	0.50000 10990.00 10740.00	0.0 509. 509.		105 67 69 2.9	N N		09/25/2002 09/25/2002 09/25/2002 09/25/2002	161° 1619
Μe	ethod Descr	: 74 iption.: Me	rcury (CVA	A) Solids		Batch Equipment Coc	医多生性 化基金电子系统	- 40 - 10 Page 14 - 1			Analyst Test Code	A 1 (T) 1 1 1 1 1 1 1 1	
3C	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. V	'alue	QC Calc.	F	* Limits	Date	Time
LCS MD	63433 -007 63433 -008 211927-1 211927-1	MOZESTKO10	mg/Kg	0.01 U 0.33 0.02 B 0.23		0.33	0.	01 U 02 B 02 B			% 80-120 A 0.04 % 75-125	09/23/2002 09/23/2002 09/23/2002 09/23/2002	120° 1212



#### QUALITY ASSURANCE METHODS

#### REFERENCES AND NOTES

Report Date: 09/26/2002

#### 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 AZ0603.
- 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.
- I 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.
- 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)

- ICV,CCV,ICB,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.
- 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
- 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 interfence, recovery is not calculated.
- M Manually integrated compound.



#### QUALITY ASSURANCE METHODS

#### REFERENCES AND NOTES

Report Date: 09/26/2002

The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%. Abbreviations Post Digestion Spike (GFAA Samples - See Note 1 below) AS 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 Confirmation analysis of A1 or D1 C1 02 Confirmation analysis of A2 or D2 С3 Confirmation analysis of A3 or D3 Low Level Standard Check - GFAA; Mercury CRA CRI Low Level Standard Check - ICP Calibration Verification Standard CV Dil Fac Dilution Factor - Secondary dilution analysis D1 Dilution 1 Dilution 2 D2 D3 Dilution 3 Detection Limit Factor DLFac DSH Distilled Standard - High Level Distilled Standard - Low Level DSL Distilled Standard - Medium Level DSM EB1 Extraction Blank 1 Extraction Blank 2 EB2 EB3 DI Blank Method Extracted LCS ELC ELD Method Extracted LCD ICAL Initial calibration Initial Calibration Blank LCB ICV Initial Calibration Verification Instrument Detection Limit IDI. ISA Interference Check Sample A - ICAP Interference Check Sample B - ICAP ISB The first six digits of the sample ID which refers to a specific client, project and sample group Job No. Lab ID An 8 number unique laboratory identification 1 CD 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 MIF Medium Level Extraction Blank Method Reporting Limit Standard MRL Method of Standard Additions MSA MS Matrix Spike MSD Matrix Spike Duplicate ND Not Detected Preparation factor used by the Laboratory's Information Management System (LIMS) PREPF PDS Post Digestion Spike (ICAP) Re-analysis of original RA Re-analysis of D1 Α1 Α2 Re-analysis of D2 А3 Re-analysis of D3 Re-extraction of dilution RD Re-extraction of original RE RC Re-extraction Confirmation Reporting Limit RL RPD Relative Percent Difference of duplicate (unrounded) analyses RRF Relative Response Factor



#### QUALITY ASSURANCE METHODS

#### REFERENCES AND NOTES

Report Date: 09/26/2002

RΤ Retention Time Retention Time Window Sample ID A 9 digit number unique for each sample, the first RTW six digits are referred as the job number SCB Seeded Control Blank SD Serial Dilution (Calculated when sample concentration exceeds 50 times the MDL) UCB Unseeded Control Blank Second Source Verification Standard SSV SLCS Solid Laboratory Control Standard(LCS) pH Calibration Check LCSP pH Laboratory Control Sample PHC LCDP pH Laboratory Control Sample Duplicate pH Sample Duplicate MDPH Flashpoint Sample Duplicate MDFP LCFP Flashpoint LCS Gelex Check Standard Range 0-1 G1 G2 Gelex Check Standard Range 1-10 G3 Gelex Check Standard Range 10-100 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.

RELINQUISHED BY (6) Phone: 708-534-5200 University Park, IL 60466 2417 Bond Street STL Chicago A 2 MS န္လဍ Project Name: Sampler Name: WW = Wastewater Laboratory Lab PM: Project Location: SEVERN 100x 00x = 0il 17 天 巴 区 17 = Miscellaneous 11 ⊧ Soil ≖ Water SERVICES 708-534-5211 Ŧ W : Siudge 5 Ø 0 6 MS-MSD Matrix Key
SE = Sediment
S0= Solid 105-5 1.50) 101-3 G 7 101-1 101-4 05-3 DL = Drum Liquid
L = Leachate
WI = Wipe
O = \_\_\_\_\_\_ DS = Drum Solid Sample ID Client COMPANYSCS 02207000.11 COMPANY Date Required Project Number: Signature: Hard Copy: 96499 Company: SCS Contact Dave Brewer E-Mail: DBrewer @Scsensiners. Com PO# Phone: 816 94 4510 Address: 10401 Holmas RX # 400 Report To: VOA Vial Widemouth Glass range City Arriber Glass Sterile Plastic Container Key 9.10:01 16:10 5208 116 918 Date Sampling 18:25 16:50 05:8 9:18 08:33 17:30 DATE DATE 1.10.02 Time 765432 0/20 V Volume 597 # / Cont. Refrg # Preserv HNO3, Cool to 4° NaOH/Zn, Cool to 4° Cool to 4° NaOH, Cool to 4° H2SO4, Cool to 4° HCI, Coal to 4\* Matrix Preservative Key Comp/Grab (SA30) OO & JMIL IME Metals # 60 A PCB/Explosive, 260 R Contact Sands Phone: Company: SC RECEIVED BY (6) Fax: Address: COMMENTS RECEIVED B Jest Quote: COMPANY COMPANY Sample Labels and COC Agree Shaded Areas For Internal Use Only 2 of 2 Temperature "C of Cooler Within Hold Time
(Yes) No Lab Lot# Package Sealed Yes No Received on Ice
(Yes) No Yes No pH Check OK Nes No Additional Analyses / Remarks Bill of Lading See attach Courier: 天 Date Received DATE DATE 211927 عہ Preserv. Indicated Yes Res Cl<sub>2</sub> Check OK COC not present **3** Samples Sealed Samples Intact Hand Delivered Yes) Yes (No) TIME 8 Z 0845 02 S

STL-8208 (0600)

O'll Chicago is a part of Schorn Trent I ahoratrips



# SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 211929

Prepared For:

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

Project: GSA - SLOP - Investigation

Attention: David Brewer

Date: 09/26/2002

(b) (6)

Signature

Name: Richard C. Wright

Title: Project Manager

E-Mail: rwright@stl-inc.com

9/27/02

Date

STL Chicago 2417 Bond Street

University Park, IL 60466

PHONE: (708) 534-5200 FAX..: (708) 534-5211

 $\Lambda$ 

# Severn Trent Laboratories - Chicago METALS CASE NARRATIVE

Client: SCS Engineers, Inc Project: GSA - SLOPGSA

STL Job#: 211929

1. This narrative covers the Metals nalysis of Wipe samples in the above Job.

Method Refs: USEPA, SW 846

- 2. All analyses were performed within the required holding times.
- 3. All Initial and Continuing Calibration Verification (ICV/CCV's) were within control limits.
- 4. All Initial and Continuing Calibration Blanks (ICB/CCB's) were within control limits.
- 5. All Preparation/Method Blanks were below the Reporting Limit except for Calcium & Zinc. Calcium and Zinc in the samples were greater than 10X the blank concentration.
- 6. Laboratory Control Sample recoveries were within the 80-120% control limits.
- 7. Matrix QC. was not requeated.

(b) (6)

Mani S. Iyer Metals Section Manager 9/12/02

Date Recd: 09/11/02

Date

## STL Chicago PCB Case Narrative

SCS Engineers, Inc.

GSA – SLOP - Investigation

Job #: 211929-1 through 14

**PCBs** 

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

ID#	INSTRUMENT	COLUMN TYPE	DETECTOR
07	Varian 3400	Rtx-5	Electron Capture
08	Varian 3400	Rtx-Clp2	Electron Capture

- 2. These wipe samples were extracted based on SW846 method 3550. The 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.
- 6. A solution containing Aroclor 1016 and Aroclor 1260 was used for spiking.
- 7. The blank spike and blank spike duplicate recoveries and RPDs 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. All positive hits were confirmed using a second column. Results from the primary column (Rtx-5) only have been reported.

(b) (6)

9/25/02

Date

Patti Gibson Organics Section Manager

# STL Chicago Explosives Case Narrative

SCS Engineers, Inc. GSA – SLOP - Investigation Job #: 211929-1 through 14 Explosives

1. STL Chicago uses the following HPLC systems for analysis of Nitroaromatics and Nitramines:

<u>ID#</u>	INSTRUMENT	COLUMN TYPE	DETECTOR
35	Agilent 1100	C-18	<del>UV - 254nm</del>
44	Agilent 1100	CN	UV - 254nm

- 2. These wipe samples were extracted based on a modified SW846 method 8330 and analyzed for explosives based on SW846 method 8330.
- 3. All required holding times were met for the extraction and analysis.
- 4. The method blank was below the reporting limit for all target compounds.
- 5. The surrogate compound used for this analysis was 1,2-Dinitrobenzene (1,2-DNB). All surrogate recoveries were within statistical control limits.
- 6. The blank spike and blank spike duplicate recoveries had numerous recoveries just outside statistical control limits. However, the blank spike and blank spike duplicate for 2,4,6-TNT had recoveries of 0% and 33%, respectively and Tetryl with 9% and 0%, respectively. All RPDs were <20%, except Tetryl (200%), 2,4,6-TNT (200%) and 1,3,5-Trinitrobenzene (31%). There was insufficient sample volume to re-extract.
- 7. A matrix spike and a matrix spike duplicate were not performed on a sample from this SDG.
- 8. All initial and continuing standard calibrations associated with these samples were in control on the primary column (C18). However, a retention time shift was observed and taken into account during data review.
- 9. All initial and continuing standard calibrations associated with these samples were in control on the confirmation column (CN).
- 10. Target compounds were qualitatively confirmed using a second (CN) column.

11. All samples were analyzed at a 1/2 dilution due to matrix interference. Reporting limits were adjusted to reflect these necessary dilutions.

(b) (6)

Patti Gibson Organics Section Manager 9/26/02 Date



SAMPLE INFORMATION

Date: 09/26/2002

Job Number.: 211929

Customer...: SCS Engineers, Inc. Attn....: David Brewer

Project Number....: 20002601 Customer Project ID...: GSA - SLOP

Project Description...: GSA - SLOP - Investigation

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
211929-1	Bldg105EWS1	Wipe	09/10/2002	15:00	09/11/2002	08:45
211929-2	105EWS2	Wipe	09/10/2002	15:30	09/11/2002	08:45
211929-3	105FWS1	Wipe	09/10/2002	16:00	09/11/2002	08:45
211929-4	105FWS2	Wipe	09/10/2002	16:30	09/11/2002	08:45
211929-5	105ws1	Wipe	09/10/2002	17:00	09/11/2002	08:45
211929-6	105ws2	Wipe	09/10/2002	17:30	09/11/2002	08:45
211929-7	105WS3	Wipe	09/10/2002	18:00	09/11/2002	08:45
211929-8	105ws4	Wipe	09/10/2002	18:05	09/11/2002	08:45
211929-9	105WS5	Wipe	09/10/2002	18:15	09/11/2002	08:45
211929-10	105WS6	Wipe	09/10/2002	18:30	09/11/2002	08:45
211929-11	105WS7	Wipe	09/10/2002	18:45	09/11/2002	08:45
211929-12	105WS8	Wipe	09/10/2002	19:00	09/11/2002	08:45
211929-13	105WS9	Wipe	09/10/2002	19:15	09/11/2002	08:45
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_	CUSTOMER: SCS (	Customer Date Samp Time Sample MS	TEST METHOD	8330	6010B

\* In Description = Dry Wgt.



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Date:09/26/2002	David Brewer	BATCH DT 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 6352244 635224 635224 635224 635224 635224 635224 635224 635224 6352
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S	D: 211929-3 .: 09/11/2002 .: 08:45	RL 0.0010 0.0004 0.0010 0.010 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050
T RESUL	SLOP Laboratory Sample ID: Date Received	MDL 0.0010 0.0004 0.0010 0.0010 0.0050 0.0050 0.0050 0.0050 0.0050 0.0010 0.0050 0.0010 0.0010 0.0010 0.0010 0.0010
1 E S	GSA - SLOP Labor Date I Time I	L'AGS
ABORATORY	PROJECT:	SAMPLE RESULT 0  2.1  ND 0.95  46 0.11 0.041 2.2 320 3.3 4.8 1.5 0.060 2.0 0.0026 0.0026 0.0017 12 12
Job Number: 211929	CUSTOMER: SCS Engineers, Inc.  Customer Sample ID: 105FWS1 Date Sampled: 09/10/2002 Time Sampled: 16:00 Sample Matrix: Wipe	Barium, Wipe Barium, Wipe Cadmium, Wipe Calcium, Wipe Chromium, Wipe Copper, Wipe Copper, Wipe Lead, Wipe Lead, Wipe Manganese, Wipe Manganese, Wipe Manganese, Wipe Silver, Wipe Silver, Wipe Sodium, Wipe Silver, Wipe Silver, Wipe Silver, Wipe Silver, Wipe Silver, Wipe Silver, Wipe Thallium, Wipe
	CUSTOMER: SCS Customer Date Sam Time Sample M	TEST METHOD

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	Job Number: 211929	LABORATORY	TES	T RESUL	1 S		Date:0	Date:09/26/2002		
CUSTOMER: SCS Engineers,	Engineers, inc.	PROJECT:	GSA - SLOP	90	•		ATTN:	David Brewer	Wer	
Custome Date Sa Time Sa Sample P	Customer Sample ID: 105FWS2 Date Sampled: 09/10/2002 Time Sampled: 16:30 Sample Matrix: Wipe		Lab Dat Tîm	Laboratory Sample ID: Date Received Time Received	(D: 211929-4 : 09/11/2002 : 08:45					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH D	DT DATE/TIME	TECH
8082	PCB Analysis Aroclor 1016, Wipe Aroclor 1221, Wipe Aroclor 1232, Wipe Aroclor 1242, Wipe Aroclor 1248, Wipe Aroclor 1254, Wipe	ND ND ND ND ND ND ND	כהכהה	0.50 0.50 0.50 0.50 0.50 0.50	0.50 0.50 0.50 0.50 0.50 0.50	1.00000 1.00000 1.00000 1.00000 1.00000	ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe	63674 63674 63674 63674 63674 63674 63674	09/19/02 15 09/19/02 15 09/19/02 15 09/19/02 15 09/19/02 15 09/19/02 15	1911 mgk 1911 mgk 1911 mgk 1911 mgk 1911 mgk
8330	Explosives by 8330 (HPLC) HMX, Wipe RDX, Wipe 1,3,5-Trinitrobenzene, Wipe 1,3-Dinitrobenzene, Wipe Nitrobenzene, Wipe 2,4,6-TNI, Wipe 2,4-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2-Amino-2,6-Dinitrotoluene, Wipe 4-Amino-2,6-Dinitrotoluene, Wipe 2-Nitrotoluene, Wipe 4-Nitrotoluene, Wipe 3-Nitrotoluene, Wipe 3-Nitrotoluene, Wipe	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	**** ***** *	2.2.2.2.2.4.2.4.0.0.0.0.0.0.0.0.0.0.0.0.	2.0.0.0.0.4.4.4.0.0.0.0.0.0.0.0.0.0.0.0.	2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000	ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe	63872 63872 63872 63872 63872 63872 63872 63872 63872 63872 63872	09/24/02 20 09/24/02 20	2032 san 2032 san
6010B	Metals Analysis (ICAP Trace) Aluminum, Wipe Antimony, Wipe Arsenic, Wipe	4.3 0.0084 0.0098		0.020 0.0020 0.0010	0.020 0.0020 0.0010	<u> </u>	mg/Wipe mg/Wipe mg/Wipe	63524 63524 63524	09/21/02 04 09/21/02 04 09/21/02 04	0415 tds 0415 tds 0415 tds
	* In Description = Dry Wgt.	ď	Page 8		***************************************		***************************************			



7	Job Number: 211929	ABORATORY	T E S	T RESUL	S L		Date:	Date: 09/26/2002	2		
CUSTOMER: SCS Engineers,	ngineers, Inc.	PROJĘCT:	GSA - SL	SLOP			ATTN:	David Brewer	rewer		
Customer Sample Date Sampled Time Sampled Sample Matrix	Customer Sample ID: 105FWS2 Date Sampled: 09/10/2002 Time Sampled: 16:30 Sample Matrix: Wipe		Labor Date Time	Laboratory Sample ID: Date Received	10: 211929-4 : 09/11/2002 : 08:45						
TEST METHOD	PARAMETER/TEST DESCRIPTION Barium, Wipe Baryllium, Wipe	SAMPLE RESULT 1.4 ND 0.027	Q FLAGS	0.0010 0.0004	8E 0.0010 0.0004	DILUTION 1	UNITS mg/Wipe mg/Wipe	BATCH 63524 63524	760 7,60 7,60	ame:	
	cadmium, wipe Calcium, Wipe Calcium, Wipe Cobalt, Wipe Copper, Wipe Iron, Wipe Manganese, Wipe Manganese, Wipe Potassium, Wipe Potassium, Wipe Selenium, Wipe Sodium, Wipe Sodium, Wipe Sodium, Wipe Vanadium, Wipe Zinc, Wipe	ND 0.012	± =	0.000 0.0010 0.0010 0.0010 0.0010 0.0010 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0002 0.010 0.0010 0.0010 0.0010 0.0010 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005		mg/klipe mg/klipe mg/klipe mg/klipe mg/klipe mg/klipe mg/klipe mg/klipe mg/klipe mg/klipe mg/klipe	63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524	66666666666666666666666666666666666666	09/21/02 0415 09/21/02 0415 09/23/02 2221	8

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100	Job Number: 211929	LABORATORY	⊢ S	TRESUL	ν.		Date;0	Date:09/26/2002		
	SCS Engineers, Inc.	PROJECT:	GSA - SLOP	96			ATTN:	David Bre	Вгемег	
Customer Sample ID: Date Sampled Time Sampled	ample ID: 105WS1 ed: 09/10/2002 ed: 17:00 rix: Wipe		Labo Dat	Laboratory Sample ID: Date Received	(D: 211929-5 : 09/11/2002 : 08:45				•	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	a FLAGS	JON	~	DILUTION	UNITS	ВАТСН D	DT DATE/TIME	E TECH
8082 PC	PCB Analysis Aroclor 1016, Wipe Aroclor 1221, Wipe Aroclor 1242, Wipe Aroclor 1248, Wipe Aroclor 1254, Wipe Aroclor 1250, Wipe	ND ND ND ND ND ND	2222	0.50 0.50 0.50 0.50 0.50 0.50	0.50 0.50 0.50 0.50 0.50 0.50	1.00000 1.00000 1.00000 1.00000 1.00000	ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe	63674 63674 63674 63674 63674 63674 63674	09/19/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02	1944 mgk 1944 mgk 1944 mgk 1944 mgk 1944 mgk 1944 mgk
8330 EX HWD 11, 11, 12, 12, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14	Explosives by 8330 (HPLC) HMX, Wipe RDX, Wipe 1,3,5-Trinitrobenzene, Wipe 1,3-Dinitrobenzene, Wipe 2,4,6-TNI, Wipe 2,4-TNI, Wipe 2,4-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 4-Amino-2,6-Dinitrotoluene, Wipe 2-Nitrotoluene, Wipe 4-Nitrotoluene, Wipe 3-Nitrotoluene, Wipe 4-Nitrotoluene, Wipe	Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	**** ***** *	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000	ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe	63872 63872 63872 63872 63872 63872 63872 63872 63872 63872 63872	09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02	2137 san 2137 san
6010B Me Al An An	Metals Analysis (ICAP Trace) Aluminum, Wipe Antimony, Wipe Arsenic, Wipe	6.1 0.023 0.089		0.020 0.0020 0.0010	0.020 0.0020 0.0010		mg/Wipe mg/Wipe mg/Wipe	63524 63524 63524	09/21/02 ( 09/21/02 ( 09/21/02 (	0421 tds 0421 tds 0421 tds



L T S Date:09/26/2002	### AITN: David Brewer e ID: 211929-5: 09/11/2002: 08:45	RL DILUTION UNITS BATCH DI DATE/TIME TECH 0.0004 1 mg/Wipe 63524 09/21/02 0421 tds 0.0002 1 mg/Wipe 63524 09/21/02 0421 tds 0.0002 1 mg/Wipe 63524 09/21/02 0421 tds 0.0000 1 mg/Wipe 63522 09/23/02 2251 tds 0.0000 1 mg/Wipe 63522 09/23/02 2251 tds 0.0000 1 mg/Wipe 63524 09/23/02 2251 tds 0.0000 1 mg/Wipe 63522 09/23/02 2251	
ABORATORY TEST RESU	PROJECT: GSA - SLOP Laboratory Sample ID: Date Received: Time Received:	SAMPLE RESULT 6 FLAGS MDL  0.90 0.0005 0.039 77 0.19 0.035 3.4 780 0.19 0.096 0.19 0.0096 0.0096 0.0099 0.0029 0.0029 0.0029 0.0029 0.0029 0.0029 0.0029 0.0029 0.0029	
Job Number: 211929	CUSTOMER: SCS Engineers, Inc.  Customer Sample ID: 105WS1 Date Sampled: 09/10/2002 Time Sampled: 17:00 Sample Matrix: Wipe	Barium, Wipe Barium, Wipe Cadmium, Wipe Cadmium, Wipe Copper, Wipe Copper, Wipe Lead, Wipe Magnesium, Wipe Magnesium, Wipe Nickel, Wipe Potassium, Wipe Setenium, Wipe Silver, Wipe Nickel, Wipe Nickel, Wipe Notassium, Wipe Silver, Wipe Sodium, Wipe Thallium, Wipe Thallium, Wipe Thallium, Wipe	

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	Job Number: 211929	ABORATOR	Y TES	T RESUL	T S		Date:0	Date: 09/26/2002			
CUSTOMER: SCS	SCS Engineers, Inc.	PROJECT	: GSA - SL	401s			VIII.	David Br	8rewer		
Custome Date Sa Time Sa Sample	Customer Sample ID: 105WS2 Date Sampled: 09/10/2002 Time Sampled: 17:30 Sample Matrix: Wipe		Labor Date Time	Laboratory Sample ID: Date Received: Time Received:	(D: 211929-6 : 09/11/2002 : 08:45						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	0 FLAGS	MOL	K	NOTTHION	UNITS	ватсн	DT DATE	DATE/TIME T	TECH
8082	PCB Analysis Aroclor 1016, Wipe Aroclor 1221, Wipe Aroclor 1232, Wipe Aroclor 1242, Wipe Aroclor 1248, Wipe Aroclor 1254, Wipe	ND ND ND ND ND ND ND	22222	9999999 22999	22.5555	5.0000 5.0000 5.0000 5.0000 5.0000 5.0000	ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe	63674 63674 63674 63674 63674 63674	09/19/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02	2017 2017 2017 2017 2017 2017	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
8330	Explosives by 8330 (HPLC) HMX, Wipe RDX, Wipe 1,3,5-Trinitrobenzene, Wipe 1,3-Dinitrobenzene, Wipe 2,4,6-TNI, Wipe Tetryl, Wipe 2,4-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2-Amino-2,6-Dinitrotoluene, Wipe 4-Amino-2,6-Dinitrotoluene, Wipe 6-Nitrotoluene, Wipe 7-Nitrotoluene, Wipe 8-Nitrotoluene, Wipe 7-Nitrotoluene, Wipe 8-Nitrotoluene, Wipe	N	* * * * * * * * * *	5.00.00.00.00.00.00.00.00.00.00.00.00.00	2.0.0.0.0.4.4.4.4.0.0.0.0.0.0.0.0.0.0.0.	2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000	ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe	63872 63872 63872 63872 63872 63872 63872 63872 63872 63872 63872	09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02 09/24/02	22222222222222222222222222222222222222	S S S S S S S S S S S S S S S S S S S
60108	Metals Analysis (ICAP Trace) Aluminum, Wipe Antimony, Wipe Arsenic, Wipe	11 0.014 0.030		0.020 0.0020 0.0010	0.020 0.0020 0.0010		mg/Wipe mg/Wipe mg/Wipe	63524 63524 63524	09/21/02 09/21/02 09/21/02	0427 0427 0427	tds tds
	* In Description = Dry Mat		Dage 12				***************************************				



LABORATORY TEST RESULTS Date:09/26/2002	ATTN: David Brewer Laboratory Sample ID: 211929-6 Date Received: 09/11/2002 Time Received: 08:45	SAMPLE RESULT Q FLAGS MOL.  ND 0.050 H 0.0002 170 0.23 18 0.025 120 0.025 120 0.025 120 0.005 120 0.005 4.4 0.005 0.0053 0.0053 0.0053 0.0055 0.0053 0.0055 0.0050 0.0055 0.0050 0.0055 0.0050 0.0055	0.007 0.0005 1 mg/Wipe 63524 09/21/02 16 H 0.040 0.040 20 mg/Wipe 63632 09/23/02
Job Number: 211929	CUSTOMER: SCS Engineers, Inc.  Customer Sample ID: 105WS2 Date Sampled: 09/10/2002 Time Sampled: 17:30 Sample Matrix: Wipe	Barium, Wipe Baryllium, Wipe Cadmium, Wipe Cadcium, Wipe Cobalt, Wipe Copper, Wipe Lead, Wipe Magnessium, Wipe Magnessium, Wipe Nickel, Wipe Nickel, Wipe Solenium, Wipe Solenium, Wipe Solenium, Wipe Solenium, Wipe Solenium, Wipe	Vanadium, Wipe Zinc, Wipe

SEVERN TRENT SERVICES

1 S	ID: 211929-7: 09/11/2002: 08:45	RL DILUTION UNITS BATCH DT DATE/TIME TECH	5.0 10.0000 ug/Wipe 63674 09/19/02 2049 mgk 5.0 10.0000 ug/Wipe 63674 09/19/02 2049 mgk	5.0 2.00000 ug/Wipe 63872 09/25/02 0020 san 2.0 2.00000 ug/Wipe 63872 09/25/02 0020 san 4.0 2.00000	63524 09/21/02 0433 63524 09/21/02 0433 63524 09/21/02 0433
Y T E	Laboratory Sample ID: Date Received	Q FLAGS MOL	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	* * * * * * * * * * * * * * * * * * *	0.020 0.0020 0.0010
LABORATO	PROJECT	SAMPLE RESULT	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	222222222222	17 0.10 0.035
** \$15°	Customer Sample ID: 105WS3 Date Sampled: 09/10/2002 Time Sampled: 18:00 Sample Matrix: Wipe	PARAMETER/TEST DESCRIPTION	Aroclor 1016, Wipe Aroclor 1221, Wipe Aroclor 1232, Wipe Aroclor 1242, Wipe Aroclor 1248, Wipe Aroclor 1254, Wipe Aroclor 1260, Wipe	Explosives by 8330 (HPLC) HMX, Wipe RDX, Wipe 1,3,5-Trinitrobenzene, Wipe 1,3-Dinitrobenzene, Wipe 2,4,6-TNI, Wipe Tetryl, Wipe 2,4-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2-Mino-2,6-Dinitrotoluene, Wipe 4-Amino-2,6-Dinitrotoluene, Wipe 2-Nitrotoluene, Wipe 3-Nitrotoluene, Wipe 4-Nitrotoluene, Wipe 5-Nitrotoluene, Wipe 6-Nitrotoluene, Wipe 6-Nitrotoluene, Wipe	Metals Analysis (ICAP Trace) Aluminum, Wipe Antimony, Wipe Arsenic, Wipe
ors crowns	Custome Date Sal Time Sal Sample 1	TEST METHOD	8082	8330	60108

\* In Description = Dry Wgt.



•	L Job Number: 211929	ABORATORY	 П	STRESUL	S		Date:(	Date:09/26/2002		
CUSTOMER: SCS E	SCS Engineers, Inc.	PROJECT:	- es	SLOP			ATTN	David Br	Вгемег	
Customer Date Sam Time Sam Sample Ma	Customer Sample ID: 105WS3 Date Sampled: 09/10/2002 Time Sampled: 18:00 Sample Matrix: Wipe		Labor Date Time	Laboratory Sample ID: Date Received: Time Received:	10: 211929-7 : 09/11/2002 : 08:45		·			
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	<b>10</b>	KL	DILUTION	UNITS	ВАТСН	DT DATE/TIME	ME TECH
	Barium, Wipe Beryllium, Wipe Calcium, Wipe Calcium, Wipe Cobalt, Wipe Copper, Wipe Iron, Wipe Head, Wipe Manganese, Wipe Manganese, Wipe Manganese, Wipe Selenium, Wipe Selenium, Wipe Solar, Wipe Silver, Wipe	ND 0.71 U 210 0.52 0.11 11 240 10 0.34 6.6 ND 0.0021 0.0021 8.7	<b>I</b>	0.0010 0.0002 0.0002 0.0010 0.0020 0.010 0.010 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050	0.0010 0.0004 0.0002 0.0010 0.002 0.003 0.	NNNNN	mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe	63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524	09/21/02 09/21/02 09/21/02 09/21/02 09/23/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02	0433 tds 0433 tds 043
	* in Description = Dry Wgt.	Pa	Page 15							

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Page 16

\* In Description = Dry Wgt.



CUSTOMER: SCS	Job Number: 211929 SCS Engineers, Inc.	ABORATOR PROJECT	Y TEST : GSA + SLOP	T RESUL	8		Date:0	Date: 09/26/2002 ATTN: David Bre	302 Brewer	
Custome: Date San Time San	Customer Sample ID: 105WS4 Date Sampled: 09/10/2002 Time Sampled: 18:05 Sample Matrix: Wipe		Lab Dat Tim	Laboratory Sample ID: Date Received	1D: 211929-8 : 09/11/2002 : 08:45					
TEST METHOD	Barium, Wipe Beryllim Wine	SAMPLE RESULT 0.10	Ø FLAGS	MDL 0.0010	RL 0.0010	DILUTION	UNITS mg/Wipe	BATCH [C 63524	DT DATE/TIME 09/21/02 04	ME TECH 0440 tds
	Cadmium, Wipe Calcium, Wipe Chromium, Wipe Cobalt, Wipe Copper, Wipe Lead, Wipe Magnese, Wipe Magnese, Wipe Magnese, Wipe Mickel, Wipe Potassium, Wipe Selenium, Wipe Sodium, Wipe Sodium, Wipe Silver, Wipe Sodium, Wipe Silver, Wipe	0.021 49 0.042 0.059 0.059 13 13 13 14 0.016 0.0014 0.0014 0.0005 0.00074	±	0.000 0.010 0.0010 0.0010 0.0050 0.0050 0.0010 0.00050 0.00050 0.00050 0.00050 0.00050	0.0000 0.0010 0.0010 0.0050 0.0050 0.0010 0.0010 0.0010 0.0010 0.0010	. – – – – – – – – – – – – – – – – – – –	mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe	63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524		
	* "r Daconintino - Dry Hat		1	***************************************						

CUSTOMER: SCS Engineers, Inc.  Customer Sample ID: 105WS5 Date Sampled: 09/10/2002 Time Sampled: 18:15 Sample Matrix: Wipe Time Sampled: Wipe Aroclor 121, Wipe Aroclor 1221, Wipe Aroclor 1242, Wipe Aroclor 1242, Wipe Aroclor 1248, Wipe Aroclor 1248, Wipe Aroclor 1248, Wipe Aroclor 1254, Wipe Aroclor 1260, Wipe 2,4,6-TNI, Wipe C,4-Dinitrobluene, Wipe 2,4-Dinitrotoluene, Wipe 2,4-Dinitrotoluene, Wipe 2,4-Dinitrotoluene, Wipe C,4-Dinitrotoluene, Wipe C,
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	Job Number: 211929	ABORATOR	YTES	T RESUL	S ⊢		Date:0	Date:09/26/2002		
CUSTOMER: SCS	. Engineers, Inc.	PROJECT	: GSA - SLOP				ATTN:	David Br	Вгемег	
Custome Date Sa Time Sa Sample	Customer Sample ID: 105WS5 Date Sampled: 09/10/2002 Time Sampled: 18:15 Sample Matrix: Wipe		Lab Dat Tim	Laboratory Sample ID: Date Received: Time Received:	1D: 211929-9 : 09/11/2002 : 08:45					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	JOW	K.	DILUTION	UNITS	ВАТСН	DT DATE/TIME	IME TECH
	Barium, Wipe Beryllium, Wipe Cadmium, Wipe Calcium, Wipe Cobalt, Wipe Copper, Wipe Iron, Wipe Iron, Wipe Magnesium, Wipe Magnesium, Wipe Magnesium, Wipe Selenium, Wipe Selenium, Wipe Silver, Wipe	0.41 0.0004 0.033 58 0.14 0.036 2.4 32 4.9 4.9 4.9 0.054 0.0052 0.0052 0.0043 2.4 2.4 2.4 2.4 2.8	æ	0.0010 0.0002 0.0002 0.0010 0.0005 0.0050 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0010 0.0004 0.0002 0.010 0.010 0.0050 0.0050 0.0010 0.0010 0.0005 0.0005 0.0010 0.0005 0.0005 0.0005 0.0005 0.0005		mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe	63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524	09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02	0446 tds 0446 tds
	* In Description = Dry Wat.		Page 19							<u> </u>



Custome		PROJECT	: GSA -	SLOP Laboratory Sample ID:			ATIN	David Brewer	Jama	
Date San Time San Sample I	Date Sampled: U7/10/2002 Time Sampled: 18:30 Sample Matrix: Wipe METHOD PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Dai Tir	Date Received: Time Received: S MDL	: 09/11/2002 : 08:45	DILUTION	UNITS	BATCH D	DT DATE/TIME	ME TECH
8082	PCB Analysis Aroclor 1016, Wipe Aroclor 1221, Wipe Aroclor 1232, Wipe Aroclor 1242, Wipe Aroclor 1254, Wipe Aroclor 1254, Wipe	ND ND ND ND ND ND ND ND	22222	0.50 0.50 0.50 0.50 0.50 0.50	0.50 0.50 0.50 0.50 0.50 0.50	1.1.1.1.1.0 000000 00000000000000000000	ug/Nipe ug/Nipe ug/Nipe ug/Nipe ug/Nipe	63674 63674 63674 63674 63674 63674 63674	09/19/02 09/19/02 09/19/02 09/19/02 09/19/02 09/19/02	2300 mgk 2300 mgk 2300 mgk 2300 mgk 2300 mgk 2300 mgk
8330	Explosives by 8330 (HPLC) HMX, Wipe RDX, Wipe 1,3,5-Trinitrobenzene, Wipe 1,3-Dinitrobenzene, Wipe 1,4,6-TNT, Wipe 2,4,6-TNT, Wipe 2,4-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 4-Amino-2,6-Dinitrotoluene, Wipe 6-Nitrotoluene, Wipe 7-Nitrotoluene, Wipe 8-Nitrotoluene, Wipe 8-Nitrotoluene, Wipe 8-Nitrotoluene, Wipe 8-Nitrotoluene, Wipe		**** ***** *	2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	0.000000000000000000000000000000000000	2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000	ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe	63872 63872 63872 63872 63872 63872 63872 63872 63872 63872 63872	09/25/02 09/25/02 09/25/02 09/25/02 09/25/02 09/25/02 09/25/02 09/25/02 09/25/02	0335 san 0335 san 0335 san 0335 san 0335 san 0335 san 0335 san 0335 san 0335 san 0335 san
6010B	Metals Analysis (ICAP Trace) Aluminum, Wipe Antimony, Wipe Arsenic, Wipe	0,44 0.0032 0.0014		0.020 0.0020 0.0010	0.020 0.0020 0.0010	Sim bline Sinc	mg/Wipe mg/Wipe mg/Wipe	63524 63524 63524	09/21/02 09/21/02 09/21/02	0452 tds 0452 tds 0452 tds



Job Number: 211929	LABORATORY T	EST RESU	S ⊢ ⊣		Date:0	Date:09/26/2002		
CUSTOMER: SCS Engineers, Inc.	PROJECT: GSA	SLOP			ATTN:	David Brewer	Wer	
Customer Sample ID: 105WS6  Date Sampled: 09/10/2002  Time Sampled: 18:30  Sample Matrix: Wipe		Laboratory Sample ID: Date Received Time Received	ID: 211929-10 : 09/11/2002 : 08:45					
TEST METHOD PARAMETER/TEST DESCRIPTION	SAMPLE RESULT Q FLAGS	TOM S9	- BE	DILUTION	UNITS	ВАТСН DT	T DATE/TIME	ТЕСН
Barium, Wipe Beryllium, Wipe Cadmium, Wipe Calcium, Wipe Chromium, Wipe Cobalt, Wipe Iron, Wipe Lead, Wipe Magnesium, Wipe Manganese, Wipe Manganese, Wipe Nickel, Wipe Selanium, Wipe Solium, Wipe Solium, Wipe Silver, Wipe	ND 0.71 U 0.0013 10 0.0059 0.0059 0.0059 0.0057 1.2 0.037 0.032 0.0037 0.0012 U 0.0014 U 0.00	0.0010 0.0002 0.0002 0.0010 0.0010 0.0010 0.0010 0.0010 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0010 0.0004 0.0002 0.010 0.0010 0.0050 0.0050 0.0010 0.0010 0.0050 0.0010 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005		mg/kipe mg/kipe mg/kipe mg/kipe mg/kipe mg/kipe mg/kipe mg/kipe mg/kipe mg/kipe mg/kipe mg/kipe mg/kipe mg/kipe mg/kipe mg/kipe mg/kipe mg/kipe	63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524	09/21/02 0452 09/21/02 0452	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
* In Description = Dry Wgt.	Page 21							



C. ISTOMED.	L Job Number: 211929	ABORATORY.	T 620	S T RESUL	S L		Date:0	Date:09/26/2002	02	
Custome Date Sa Time Sa Sample	[[[[]]]] ## ## ## ##			Laboratory Sample ID: Date Received	1D: 211929-11 09/11/2002 08:45			3.74	200	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	a FLAGS	JOA	<b>∝</b>	DILUTION	UNITS	BATCH D	DT DATE/TIME	TECH
8082	PCB Analysis Aroclor 1016, Wipe Aroclor 1221, Wipe Aroclor 1232, Wipe Aroclor 1242, Wipe Aroclor 1258, Wipe Aroclor 1256, Wipe	ND ND ND ND ND ND ND	22222	0.50 0.50 0.50 0.50 0.50	0.50 0.50 0.50 0.50 0.50 0.50	1.00000 1.00000 1.00000 1.00000 1.00000	ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe	63674 63674 63674 63674 63674 63674 63674	09/19/02 2332 09/19/02 2332 09/19/02 2332 09/19/02 2332 09/19/02 2332 09/19/02 2332	22222 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
8330	Explosives by 8330 (HPLC) HMX, Wipe RDX, Wipe 1,3,5-Trinitrobenzene, Wipe 1,3-Dinitrobenzene, Wipe 2,4,6-TNI, Wipe 2,4-Dinitrotoluene, Wipe 2,4-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2-Amino-2,6-Dinitrotoluene, Wipe 4-Amino-2,6-Dinitrotoluene, Wipe 2-Nitrotoluene, Wipe 4-Nitrotoluene, Wipe 3-Nitrotoluene, Wipe 4-Nitrotoluene, Wipe	22222222222222222	* * * * * * * * *	5.0.2.0.2.0.0.2.0.0.2.0.0.2.0.0.2.0.0.4.0.0.4.0.0.4.0.0.4.0.0.4.0.0.4.0.0.4.0.0.4.0.0.4.0.0.4.0.0.4.0.0.4.0.0.4.0.0.4.0.0.4.0.0.4.0.0.0.4.0.0.4.0.0.4.0.0.4.0.0.4.0.0.4.0.0.4.0.0.4.0.0.0.4.0.0.4.0.0.0.0.4.0.0.0.4.0.0.0.4.0.0.0.0.4.0.0.0.0.0.4.0	2.0.0.0.0.4.4.4.4.0.0.0.0.0.0.0.0.0.0.0.	2,00000 2,00000 2,00000 2,00000 2,00000 2,00000 2,00000 2,00000 2,00000 2,00000 2,00000	ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe	63872 63872 63872 63872 63872 63872 63872 63872 63872 63872 63872	09/25/02 0512 09/25/02 0512	
6010B	Metals Analysis (ICAP Trace) Aluminum, Wipe Antimony, Wipe Arsenic, Wipe	5.9 0.012 0.022		0.020 0.0020 0.0010	0.020 0.0020 0.0010	dan dan fam	mg/Wipe mg/Wipe mg/Wipe	63524 63524 63524	09/21/02 0458 09/21/02 0458 09/21/02 0458	8 tds tds tds
	* In Description = Dry Wgt.		Page 22	And the forest recovering to the first state of the						



	Job Number: 211929	ABORATORY	т- С	RESUL	S L		Date:	Date:09/26/2002			
CUSTOMER: SCS	Engineers, Inc.	PROJECT:	GSA - SLOP	- C			ATTN:	David Br	Brewer		
Custome Date Sa Time Sa Sample	Customer Sample ID: 105WS7 Date Sampled: 09/10/2002 Time Sampled: 18:45 Sample Matrix: Wipe		Lab Dat Tim	Laboratory Sample ID: Date Received: Time Received:	ID: 211929-11 : 09/11/2002 : 08:45						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	TOW.	Z K	DILUTION	UNITS	ВАТСН	DT DAT	DATE/TIME	TECH
	Beryllium, Wipe Cadmium, Wipe Calcium, Wipe Chromium, Wipe Cobalt, Wipe Copper, Wipe	0.0005 0.040 49 0.078 0.044 0.56		0.0002 0.0002 0.0010 0.0005	0.0002 0.0002 0.010 0.0010	, due for for for the d	mg/Wipe mg/Wipe mg/Wipe mg/Wipe	63524 63524 63524 63524 63524 63524	09/21/02 09/21/02 09/21/02 09/21/02 09/21/02		
	Lead, wipe Magnesium, Wipe Manganese, Wipe Nickel, Wipe Potassium, Wipe Setenium, Wipe	2.4 2.7 0.31 0.032 2.2 0.0052	=	0.0050 0.0050 0.0010 0.0010 0.050	0.0050 0.0050 0.0010 0.0010 0.0005 0.0005		mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe	63524 63524 63524 63524 63524 63524	09/21/02 09/21/02 09/21/02 09/21/02 09/21/02		
	Jodius, Wipe Vanadium, Wipe Zinc, Wipe	0.0019 0.024 12	±	0.0010 0.0005 0.040	0.0010 0.0005 0.040	20 1 1 20	mg/Wipe mg/Wipe mg/Wipe	63632 63524 63632	09/23/02 09/21/02 09/23/02 09/23/02	/02 234.7 /02 0458 /02 2347	tds tds tds
	* In Description = Dry Wat.	<u> </u>	Page 23								



	Job Number: 211929	LABORATORY	TEST	RESULT	S		Date:0	Date:09/26/2002	A A A A A A A A A A A A A A A A A A A		
CUSTOMER: SCS	. Engineers, Inc.	PROJECT:	GSA - SLOP				ATTN:	David Br	Вгемег		145143
Custome Date Sa Time Sa Sample	Customer Sample ID: 105WS8 Date Sampled: 09/10/2002 Time Sampled: 19:00 Sample Matrix: Wipe		Labora Date R Time R	Laboratory Sample ID: Date Received: Time Received:	): 211929-12 :: 09/11/2002 :: 08:45						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	O FLAGS	10M	R	DILUTION	UNITS	ВАТСН	DT DATE/TIME	Æ TECH	
8082	PCB Analysis Aroclor 1016, Wipe Aroclor 1221, Wipe Aroclor 1232, Wipe Aroclor 1242, Wipe Aroclor 1248, Wipe Aroclor 1254, Wipe	2222222	ככככככ	0.50 0.50 0.50 0.50 0.50 0.50	0.50 0.50 0.50 0.50 0.50 0.50	1,00000 1,00000 1,00000 1,00000 1,00000	ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe	7,79E9 7,	09/20/02 09/20/02 09/20/02 09/20/02 09/20/02 09/20/02	0005 mgk 0005 mgk 0005 mgk 0005 mgk 0005 mgk 0005 mgk	
8330	Explosives by 8330 (HPLC) HMX, Wipe RDX, Wipe 1,3,5-Trinitrobenzene, Wipe 1,3,5-Trinitrobenzene, Wipe 2,4,6-TNY, Wipe Tetryl, Wipe 2,4-Dinitrotoluene, Wipe 2,4-Dinitrotoluene, Wipe 2,4-Dinitrotoluene, Wipe 2,4-Dinitrotoluene, Wipe 2,4-Dinitrotoluene, Wipe 2,4-Dinitrotoluene, Wipe 2-Amino-2,6-Dinitrotoluene, Wipe 4-Amino-2,6-Dinitrotoluene, Wipe 4-Nitrotoluene, Wipe 3-Nitrotoluene, Wipe	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	**** ***** *	0.0000000000000000000000000000000000000	0.22 0.22 0.22 0.23 0.24 0.34 0.44 0.44 0.44	2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000	ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe	63872 63872 63872 63872 63872 63872 63872 63872 63872 63872 63872 63872	09/25/02 09/25/02 09/25/02 09/25/02 09/25/02 09/25/02 09/25/02 09/25/02 09/25/02 09/25/02	2044 san 2044 san	
60108	Metals Analysis (ICAP Trace) Aluminum, Wipe Antimony, Wipe Arsenic, Wipe	1.2 0.0027 0.012		0.020 0.0020 0.0010	0.020 0.0020 0.0010		mg/Wipe mg/Wipe	63524 63524 63524	09/21/02 09/21/02 09/21/02	0559 tds 0559 tds 0559 tds	



Customer Sample   Discussion   David Streets   Sample   Discussion   David Streets   David S	Job Number: 211929	ABORATOF	R Y T E	S T RESUL	<i>(</i> )		Date:0	Date: 09/26/2002		
Part   1054/85   Part   1054/85   Part   Received   Part   Part	CUSTOMER: SCS Engineers, Inc.	PROJEC	G\$A -	dO			ATTN:		ewer	
Bartum, Wipe			Lak Dat Tin	ooratory Sample c Received	ID: 211929-12 : 09/11/2002 : 08:45					
ND 1.6 0.0005 1 mg/Wipe 63524 09/21/02 0.10 0.10 1 mg/Wipe 63532 09/24/02 0.001 0.001 1 mg/Wipe 63532 09/24/02 0.001 0.001 1 mg/Wipe 63532 09/24/02 0.002 0.002 1 mg/Wipe 63532 09/24/02 0.002 0.002 1 mg/Wipe 63532 09/21/02 0.002 0.002 1 mg/Wipe 63524 09/21/02 0.002 0.002 0 0.002	Barium, Wi Beryllium, Cadmium, W Calcium, W Chromium, Copper, Wi Copper, Wi Iron, Wipe Lead, Wipe Magnesium, Manganese, Nickel, Wi Potassium, Selenium,	(WPLE		MDL 0.0010 0.0004 0.0002 0.010 0.0010 0.0050 0.0050 0.0050 0.0050 0.0010	RL 0.0010 0.0004 0.0002 0.0010 0.0010 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050	OILUTION TO THE PROPERTY OF TH	UNITS  mg/wipe	2 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	DATE/TI 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02	TECH TECH
	Silver, Wipe Sodium, Wipe Thallium, Wipe Vanadium, Wipe Zinc, Wipe		ם כ	0.0005 0.10 0.0010 0.0005 0.0020	0.0005 0.10 0.0010 0.0005 0.0020		mg/Wipe mg/Wipe mg/Wipe mg/Wipe	63524 63524 63524 63524 63524	i	

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Date:09/26/2002	ATTM: David Brewer	
LABORATORY TEST RESULTS	PROJECT: GSA - SLOP	Laboratory Sample ID: 211929-13 Date Received: 09/11/2002 Time Received: 08:45
Job Number: 211929	CUSTOWER: SCS Engineers, Inc.	Customer Sample ID: 105WS9 Date Sampled: 09/10/2002 Time Sampled: 19:15 Sample Matrix: Wipe

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	Ē	RL	DILUTION	UNITS	BATCH	DT DATE/TIME	TECH	
8082	PCB Analysis Aroclor 1016 Wibe	CN		C Y		יו מחמחח	in /Uine	7.242.77	0 60/06/00	אוייים אצו	,
		<u>8</u>	) <b>_</b>	0.50	0,50	1,0000	ug/#ipe	63674		0038 mgk	
	Aroclor 1232, Wipe	QN		0.50	******	1,00000	ug/Wipe	63674	09/20/02 0	338 mgk	
	Aroclor 1242, Wipe	2	⊐	0.50	*******	1,00000	ug/Wipe	63674		338 mgk	
	Aroclor 1248, Wipe	NO.	⊐	0.50	******	1.00000	ug/Wipe	63674		338 mgk	
	Aroclor 1254, Wipe			0.50		1,00000	ug/Wipe	63674		338 mgk	
	Arocior 1260, Wipe	0.79		05.0	0.50	1.00000	ug/Wipe	63674		338 mgk	
8330	Explosives by 8330 (HPLC)									••••	
	HMX, Wipe	QN	*	5.0		2,00000	ug/Wipe	63872	09/25/02 0	0723 san	
	RDX, Wipe	QN.	*	2.0		2.00000	ug/Wipe	63872	09/25/02 0	723 san	
	1,3,5-Trinitrobenzene, Wipe	QN	*	2.0		2,00000	ug/Wipe	63872	09/25/02 0	723 san	
	1,3-Dinitrobenzene, Wipe	QN	*	2.0		2.00000	ug/Wipe	63872		0723 san	
	Nitrobenzene, Wipe	NO ON	<b>5</b>	2.0	2.0	2.00000	ug/Wipe	63872		0723 san	
	2,4,6-TNT, Wipe	Q	*	2.0		2.00000	ug/Wipe	63872		0723 san	
	Tetryl, Wipe	2	*	4.0		2,00000	ug/Wipe	63872		723 san	
	2,4-Dinitrotoluene, Wipe	CN	* _	2.0		2,00000	ug/Wipe	63872	09/25/02 0	0723 san	
	2,6-Dinitratoluene, Wipe	Q.	*	0.4		2.00000	ug/Wipe	63872		0723 san	
	2-Amino-4,6-Dinitrotoluene, Wipe	QN	*	0.4		2,00000	ng/Wipe	63872		0723 san	
	oluene,	Q.	*	0.4		2.00000	ng/Mipe	63872		0723 san	
	Z-Nitrotoluene, Wipe	Q.	n	0.4		2.00000	ug/Wipe	63872	09/25/02 0	0723 san	
	4-Nitrotoluene, Wipe	Q.	*	10	10	2.00000	ug/Wipe	63872	09/25/02 0	0723 san	
	3-Nitrotoluene, Wipe	QN	ח	4.0		2.00000	ug/Wipe	63872	09/25/02 0	0723 san	
60108	Metals Analysis (ICAP Trace)										
	Aluminum, Wipe	5,4		0.020	0.020	_	mg/Wipe	63524	09/21/02 00	0606 tds	
	Antimony, Wipe	0,0082		0.0020	0.0020	<u> </u>	mg/Wipe	63524	09/21/02 00	506 tds	
	Arsenic, Wipe	6500°0		0.00.0	0.0010	_	mg/Wipe	63524	09/21/02 06	06 tds	

\* In Description = Dry Wgt.



Job Number: 211929 CUSTOMER: SCS Engineers Inc.	LABORATORY	TEST CSA - SLOP	R S C C	S		Date:0	Date:09/26/2002	John		
41 41 41 48			Laboratory Sample ID: Date Received	0: 211929-13 -: 09/11/2002 -: 08:45				5 A.		
TEST METHOD  Barium, Wipe Baryllium, Wipe Cadmium, Wipe Calcium, Wipe Cobalt, Wipe Copper, Wipe Lead, Wipe Iron, Wipe Magnesium, Wipe Manganesium, Wipe Nickel, Wipe Potassium, Wipe Selenium, Wipe Sodium, Wipe Silver, Wipe	SAMPLE RESULT Q 2.0 ND 0.041 100 0.13 0.13 0.13 0.14 4.6 0.029 4.6 0.029 4.6 0.029 4.8 0.0020 0.0024 5.8	E T	MDL 0.0010 0.0002 0.0005 0.0010 0.0010 0.0010 0.0010 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	R1 0.0010 0.0004 0.0005 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	O ILUTION	UNITS  mg/wipe	8ATCH 0 63524	DATE/TIME  109/21/02 066  109/21/02	1 ME 0606 0606 0606 0606 0606 0606 0606 0	#
* In Description = Dry Wgt.		Page 27								

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\* In Description = Dry Wgt.



	Job Number: 211929	ABORATORY	⊢ S	RESUL	S L		Date:0	Date:09/26/2002	O.		
CUSTOMER: SCS	SCS Engineers, Inc.	PROJECT:	GSA -	SLOP			ATTN:	David Br	Вгемег		
Customer Date San Time San Sample M	Customer Sample ID: 105WS10 Date Sampled: 09/10/2002 Time Sampled: 19:30 Sample Matrix: Wipe		Lab Dat Tim	Laboratory Sample ID: Date Received: Time Received	1D; 211929-14 : 09/11/2002 : 08:45				·		
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	JQW	RL	DILUTION	UNITS	ватсн	DT DA	DATE/TIME	TECH
	Barium, Wipe Beryllium, Wipe Cadmium, Wipe Calcium, Wipe Calcium, Wipe Cobalt, Wipe Copper, Wipe Iron, Wipe Lead, Wipe Magnesium, Wipe Manganese, Wipe Manganese, Wipe Manganese, Wipe Selenium, Wipe Selenium, Wipe Sodium, Wipe Sodium, Wipe Yanadium, Wipe Yanadium, Wipe Thallium, Wipe	ND 0.70 120 120 0.20 0.16 1.2 1.2 1.6 5.1 8.3 6.0 0.003 0.003 3.0 0.0037 3.0 0.0037 3.0 0.0021 6.6	ж Б	0.0010 0.0002 0.0002 0.0010 0.0010 0.0010 0.0010 0.0010 0.0005 0.0005 0.0005 0.0005 0.0005	0.0010 0.0020 0.0002 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	€= €= ₹\) \$\) \$\) \$\) \$\) \$\) \$\) \$\) \$\) \$\) \$	mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe	63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524	20000000000000000000000000000000000000	09/21/02 0612 09/21/02 0612	2
	* In Description = Dry Wgt.	d.	Page 29								



	LABORATORY	CHRONICLE	
Job Number: 211929			Date: 09/26/2002

002	HARRING L. LIVES	Date: 07/20/2002
CUSTOMER: SCS Eng	ineers, Inc.	PROJECT: GSA - SLOP ATTN: David Brewer
Lab ID: 211929-1	Client ID: Bldg105EWS1	Date Recvd: 09/11/2002 Sample Date: 09/10/2002
METHOD	DESCRIPTION	RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED DILUTIO
8330	8330 Extraction (Explosives)	1 63562 09/17/2002 2030
3050B	Acid Digestion: Solids (ICAP)	1 63171 09/19/2002 0835
EDD	Electronic Data Deliverable	1
8330	Explosives by 8330 (HPLC)	1 63872 63562 09/24/2002 1717 2.00000
3550B	Extraction Ultrasonic (PCBs)	1 62521 09/12/2002 1500
6010B	Metals Analysis (ICAP Trace)	1 63524 63171 09/21/2002 0331
6010B	Metals Analysis (ICAP Trace)	1 63632 63171 09/23/2002 2138 5
6010B	Metals Analysis (ICAP Trace)	1 63632 63171 09/23/2002 2144 20
8082	PCB Analysis	1 63674 62521 09/19/2002 1712 1.00000
Lab ID: 211929-2	Client ID: 105EWS2	Date Recvd: 09/11/2002 Sample Date: 09/10/2002
METHOD	DESCRIPTION	RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED DILUTIO
8330	8330 Extraction (Explosives)	1 63562 09/17/2002 2030
3050B	Acid Digestion: Solids (ICAP)	1 63171 09/19/2002 0835
8330	Explosives by 8330 (HPLC)	1 63872 63562 09/24/2002 1822 2.00000
3550B	Extraction Ultrasonic (PCBs)	1 62521 09/12/2002 1500
6010B	Metals Analysis (ICAP Trace)	1 63524 63171 09/21/2002 0402
6010B	Metals Analysis (ICAP Trace)	1 63632 63171 09/23/2002 2202 20
8082	PCB Analysis	1 63674 62521 09/19/2002 1806 1.00000
Lab ID: 211929-3	Client ID: 105FWS1	Date Recvd: 09/11/2002 Sample Date: 09/10/2002
METHOD	DESCRIPTION	RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED DILUTION
8330	8330 Extraction (Explosives)	1 63562 09/17/2002 2030
3050B	Acid Digestion: Solids (ICAP)	1 63171 09/19/2002 0835
8330	Explosives by 8330 (HPLC)	1 63872 63562 09/24/2002 1927 2.00000
35508	Extraction Ultrasonic (PCBs)	1 62521 09/12/2002 1500
6010B	Metals Analysis (ICAP Trace)	1 63524 63171 09/21/2002 0409
6010B	Metals Analysis (ICAP Trace)	1 63632 63171 09/23/2002 2209 5
6010B	Metals Analysis (ICAP Trace)	1 63632 63171 09/23/2002 2215 20 1 63674 62521 09/19/2002 1839 1.00000
8082	PCB Analysis	1 63674 62521 09/19/2002 1839 1.00000
Lab ID: 211929-4	Client ID: 105FWS2	Date Recvd: 09/11/2002 Sample Date: 09/10/2002
METHOD	DESCRIPTION	RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED DILUTIO
8330	8330 Extraction (Explosives)	1 63562 09/17/2002 2030
3050B	Acid Digestion: Solids (ICAP)	1 63171 09/19/2002 0835
8330	Explosives by 8330 (HPLC)	1 63872 63562 09/24/2002 2032 2.00000 1 62521 09/12/2002 1500
35508 60108	Extraction Ultrasonic (PCBs) Metals Analysis (ICAP Trace)	1 63524 63171 09/21/2002 0415
6010B	Metals Analysis (ICAP Trace)	1 63632 63171 09/23/2002 2221 20
8082	PCB Analysis	1 63674 62521 09/19/2002 1911 1.00000
Lab ID: 211929-5	Client ID: 105WS1	Date Recvd: 09/11/2002 Sample Date: 09/10/2002
METHOD	DESCRIPTION	RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED DILUTIO
8330	8330 Extraction (Explosives)	1 63562 99/17/2002 2030
3050B	Acid Digestion: Solids (ICAP)	1 63171 09/19/2002 0835
8330	Explosives by 8330 (HPLC)	1 63872 63562 09/24/2002 2137 2.00000
3550B	Extraction Ultrasonic (PCBs)	1 62521 09/12/2002 1500
6010B	Metals Analysis (ICAP Trace)	1 63524 63171 09/21/2002 0421
6010B	Metals Analysis (ICAP Trace)	1 63632 63171 09/23/2002 2251 5
6010B	Metals Analysis (ICAP Trace)	1 63632 63171 09/23/2002 2257 20
8082	PCB Analysis	1 63674 62521 09/19/2002 1944 1.00000
Lab ID: 211929-6	Client ID: 105WS2	Date Recvd: 09/11/2002 Sample Date: 09/10/2002
METHOD	DESCRIPTION	RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED DILUTIO
8330	8330 Extraction (Explosives)	1 63562 09/17/2002 2030
	·	



	LABORATORY CHRONICLE	
Job Number: 211929		Date: 09/26/2002

000	Number 211727				Date.	09/20/2002		
CUSTOMER: SCS Eng	ineers, Inc.	PROJECT: GSA -	SLOP		,	ATTN: David Br	ewer	
Lab ID: 211929-6	Client ID: 105WS2	Date Re	cvd: 09/	11/2002	Sample	Date: 09/10/20	002	
METHOD	DESCRIPTION	RUN#		PREP BT	#(S)	DATE/TIME A	VALYZED	DILUTION
3050B	Acid Digestion: Solids (ICAP)	1	63171			09/19/2002	0835	
8330	Explosives by 8330 (HPLC)	1	63872	63562		09/24/2002	2315	2.00000
3550B	Extraction Ultrasonic (PCBs)	1	62521			09/12/2002	1500	
6010B	Metals Analysis (ICAP Trace)	1	63524	63171		09/21/2002	0427	
6010B	Metals Analysis (ICAP Trace)	1	63632	63171		09/23/2002	2303	5
6010B	Metals Analysis (ICAP Trace)	1	63632	63171		09/23/2002	2310	20
8082	PCB Analysis	1	63674	62521		09/19/2002	2017	5.00000
Lab ID: 211929-7	Client ID: 105WS3	Date Re	cvd: 09/	11/2002	Sample	Date: 09/10/20	002	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT		DATE/TIME A		DILUTION
8330	8330 Extraction (Explosives)	1	63562			09/17/2002	2030	
3050B	Acid Digestion: Solids (ICAP)	1	63171			09/19/2002	0835	
8330	Explosives by 8330 (HPLC)	1	63872	63562		09/25/2002	0020	2.00000
3550B	Extraction Ultrasonic (PCBs)	1	62521			09/12/2002	1500	
6010B	Metals Analysis (ICAP Trace)	1	63524	63171		09/21/2002	0433	
6010B	Metals Analysis (ICAP Trace)	1	63632	63171		09/23/2002	2316	5
6010B	Metals Analysis (ICAP Trace)	1	63632	63171		09/23/2002	2322	20
8082	PCB Analysis	1	63674	62521		09/19/2002	2049	10.0000
ab ID: 211929-8	Client ID: 105WS4	Date Re	cvd: 09/	11/2002	Sample	Date: 09/10/20	002	
METHOD	DESCRIPTION			PREP BT		DATE/TIME AN		DILUTIO
8330	8330 Extraction (Explosives)	1	63562			09/17/2002	2030	
3050B	Acid Digestion: Solids (ICAP)	1	63171			09/19/2002	0835	
8330	Explosives by 8330 (HPLC)	ĺ	63872	63562		09/25/2002	1551	2.00000
3550B	Extraction Ultrasonic (PCBs)	1	62521			09/12/2002	1500	
6010B	Metals Analysis (ICAP Trace)	1	63524	63171		09/21/2002	0440	
6010B	Metals Analysis (ICAP Trace)	1	63632	63171		09/23/2002	2328	5
8082	PCB Analysis	1	63674	62521		09/19/2002	2155	1.00000
ab ID: 211929-9	Client ID: 105WS5	Date Re	cvd: 09/	11/2002	Sample	Date: 09/10/20	002	
METHOD	DESCRIPTION			PREP BT		DATE/TIME AN		DILUTIO
8330	8330 Extraction (Explosives)	1	63562			09/17/2002	2030	
3050B	Acid Digestion: Solids (ICAP)	1	63171			09/19/2002	0835	
8330	Explosives by 8330 (HPLC)	1	63872	63562		09/25/2002	0230	2.00000
3550B	Extraction Ultrasonic (PCBs)	1	62521			09/12/2002	1500	
6010B	Metals Analysis (ICAP Trace)	1	63524	63171		09/21/2002	0446	
6010B	Metals Analysis (ICAP Trace)	1	63632	63171		09/23/2002	2335	5
8082	PCB Analysis	1	63674	62521		09/19/2002	2227	5.00000
ab ID: 211929-10	Client ID: 105WS6	Nate Re	cvd: 09/	11/2002	Sample	Date: 09/10/20	ากว	
METHOD	DESCRIPTION			PREP BT		DATE/TIME AL		DILUTIO
8330	8330 Extraction (Explosives)	1	63562	111001 001		09/17/2002	2030	5.20170
3050B	Acid Digestion: Solids (ICAP)	1	63171			09/19/2002	0835	
8330	Explosives by 8330 (HPLC)	1	63872	63562		09/25/2002	0335	2.00000
3550B	Extraction Ultrasonic (PCBs)	1	62521			09/12/2002	1500	
6010B	Metals Analysis (ICAP Trace)	4	63524	63171		09/21/2002	0452	
6010B	Metals Analysis (ICAP Trace)	1	63632	63171		09/23/2002	2341	5
8082	PCB Analysis	1	63674	62521		09/19/2002	2300	1.00000
ab ID: 211929-11	Client ID: 105WS7	Nata Ba	cvd: 09/	11/2002	Samala	Date: 09/10/28	ากว	
METHOD	DESCRIPTION			PREP BT		DATE/TIME A		חוווווח
8330	8330 Extraction (Explosives)	1	63562	ENCE DI	#(J)	09/17/2002	2030	DILUTIO
3050B	Acid Digestion: Solids (ICAP)	1	63171				0835	
	Explosives by 8330 (HPLC)	1	63872	63562		09/19/2002 09/25/2002	0512	<b>3</b> 00000
	FVPIOS:AES NA 0338 (ULFF)	1	03012	03302		ひァ/ とひ/ とりひん	UD 12	2.00000
8330 3550B	Extraction Ultrasonic (PCBs)	1	62521			09/12/2002	1500	



	LABORATORY	CHRONICLE	
Job Number: 211929			Date: 09/26/2002

CUSTOMER: SCS E	ngineers, inc.	PROJECT: GSA -	SLOP			ATTN: David Bre	ewer	
Lab ID: 211929-	11 Client ID: 105WS7	Date Re	cvd: 09/	11/2002	Sample	Date: 09/10/20	002	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME A	NALYZED	DILUTION
6010B	Metals Analysis (ICAP Trace)	1	63524	63171		09/21/2002	0458	
6010B	Metals Analysis (ICAP Trace)	1	63632	63171		09/23/2002	2347	20
8082	PCB Analysis	1	63674	62521		09/19/2002	2332	1.00000
Lab ID: 211929-	12 Client ID: 105WS8	Date Re	cvd: 09/	11/2002	Sample	Date: 09/10/20	002	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME AN	NALYZED	DILUTION
8330	8330 Extraction (Explosives)	1	63562			09/17/2002	2030	
3050B	Acid Digestion: Solids (ICAP)	1	63171			09/19/2002	0835	
8330	Explosives by 8330 (HPLC)	1	63872	63562		09/25/2002	2044	2.00000
3550B	Extraction Ultrasonic (PCBs)	1	62521			09/12/2002	1500	
6010B	Metals Analysis (ICAP Trace)	1	63524	63171		09/21/2002	0559	
6010B	Metals Analysis (ICAP Trace)	1	63632	63171		09/24/2002	0057	
8082	PCB Analysis	1	63674	62521		09/20/2002	0005	1.00000
Lab ID: 211929-	13 Client ID: 105WS9	Date Re	cvd: 09/	11/2002	Sample	Date: 09/10/20	002	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME AM	<b>NALYZED</b>	DILUTION
8330	8330 Extraction (Explosives)	1	63562			09/17/2002	2030	
3050B	Acid Digestion: Solids (ICAP)	1	63171			09/19/2002	0835	
8330	Explosives by 8330 (HPLC)	1	63872	63562		09/25/2002	0723	2.00000
3550B	Extraction Ultrasonic (PCBs)	1	62521			09/12/2002	1500	
6010B	Metals Analysis (ICAP Trace)	1	63524	63171		09/21/2002	0606	
6010B	Metals Analysis (ICAP Trace)	1	63632	63171		09/24/2002	0103	5
8082	PCB Analysis	1	63674	62521		09/20/2002	0038	1.00000
Lab ID: 211929-	14 Client ID: 105WS10	Date Re	cvd: 09/	11/2002	Sample	Date: 09/10/20	002	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME AN		DILUTION
8330	8330 Extraction (Explosives)	1	63562			09/17/2002	2030	
3050B	Acid Digestion: Solids (ICAP)	1	63171			09/19/2002	0835	
8330	Explosives by 8330 (HPLC)	1	63872	63562		09/25/2002	0828	2.00000
3550B	Extraction Ultrasonic (PCBs)	1	62521			09/12/2002	1500	
6010B	Metals Analysis (ICAP Trace)	1	63524	63171		09/21/2002	0612	
6010B	Metals Analysis (ICAP Trace)	1	63632	63171		09/24/2002	0109	5
8082	PCB Analysis	1	63674	62521		09/21/2002	0154	5.00000



SURROGATE RECOVERIES REPORT

Job Number.: 211929

Report Date.: 09/26/2002

		: PCB Analysis : 63674		thod Code. st Matrîx.		Prep Batch: 62521 Equipment Code: INST0708
Lab ID	DT	Sample ID	Date	DCB	тсх	
LCD			09/19/20	02 76	72	
LCS			09/19/20	02 82	75	
MB			09/19/20	02 77	74	
211929- 1		Bldg105EWS1	09/19/20	02 70	82	
211929- 2		105EWS2	09/19/20	02 78	85	
211929- 3		105FWS1	09/19/20	02 78	83	
211929- 4		105FWS2	09/19/20		81	
211929- 5		105Ws1	09/19/20	02 77	83	
211929- 6		105WS2	09/19/20	02 97	91	
211929- 7		105WS3	09/19/20	02 100	87	
211929- 8		105ws4	09/19/20		83	
211929- 9		105ws5	09/19/20		84	
211 <b>92</b> 9- 10		105WS6	09/19/20		79	
211929- 11		105ws7	09/19/20		76	
211929- 12		105WS8	09/20/20		78	
211929- 13		105WS9	09/20/20		83	
211929- 14		105WS10	09/21/20	02 106	94	
Test	Test Des	scription	Limits			
DCB TCX		probiphenyl (surr) .oro-m-xylene (surr)	24 - 154 25 - 138			



SURROGATE RECOVERIES REPORT

Job Number.: 211929

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

ATTN: David Brewer

	hod: Explosives by 8330 (HPL ch(s): 63872		d Code: 8330 Matrix: Wipe	Prep Batch: 63562 Equipment Code: INST3536
Lab ID	DT Sample ID	Date	12DNBZ	
.CD		09/24/2002	74	
_CS		09/24/2002	78	
4B		09/23/2002	99	
211929~ 1	Bldg105EWS1	09/24/2002	83	
211929- 2	105EWS2	09/24/2002	83	
211929- 3	105FWS1	09/24/2002	82	
211929- 4	105FWS2	09/24/2002	80	
211929- 5	105ws1	09/24/2002	94	
211929- 6	105WS2	09/24/2002	88	
211929- 7	105WS3	09/25/2002	93	
211929- 8	105WS4	09/25/2002	86	
211929- 9	105WS5	09/25/2002	71	
211929- 10	105WS6	09/25/2002	95	
211929- 11	105WS7	09/25/2002	135	
211929- 12		09/25/2002	87	
211929- 13	105ws9	09/25/2002	74	
211929- 14	105ws10	09/25/2002	85	
Test	Test Description	Limits		
12DNBZ	1,2-Dinitrobenzene (surr)	60 - 140		



	QUALITY Job Number.: 211929	CONTROL R	ESULTS	Report Date.: 09/	26/2002	
CUSTOMER: SO	CS Engineers, Inc. PROJE	CT: GSA - SLOP		ATTN: David Brewe		
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time	

Test Method.....: 8082 Equipment Code...: INST0708 Analyst...: mgk
Method Description: PCB Analysis Batch.....: 63674

LCD	Laboratory Control Samp	ole Duplicati	e 0021	WLPCBA	62521 -003		09	/19/2002 1639
	Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits F
Aroclo	r 1016, Wipe	ug/Wipe	3.827200	3.900900	5.001000	0.500000 U	77	% 66-104 R 20
Aroclo	r 1260, Wipe	ug/Wipe	3.760600	3.902700	5.010000	0.500000 U	75 4	% 68-108 R 20



QUALITY CONTROL RESULTS

Job Number.: 211929

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN:

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

Test Method.....: 8082 Equipment Code...: INST0708 Analyst...: mgk
Method Description: PCB Analysis Batch......: 63674

LCS Laboratory Control Sample O021WLPCBA 62521 -002 09/19/2002 1606 Orig. Value QC Calc. Parameter/Test Description Units QC Result QC Result True Value Limits Aroclor 1016, Wipe 3.900900 5.001000 0.500000 U 78 ug/Wipe 66-104 Aroclor 1260, Wipe 3.902700 5.010000 0.500000 U 78 % ug/Wipe 68-108



Date

Time

#### STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 211929

QC Type

Description

Report Date.: 09/26/2002

Dilution Factor

Lab ID

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN:

Test Method.....: 8082 Equipment Code...: INST0708 Analyst...: mgk
Method Description: PCB Analysis Batch.....: 63674

Reag. Code

MB	Method Blank		1		62521 -001		⊍9	/19/2002 1534
	Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits
Aroclor	1016, Wipe	ug/Wipe	0.500000 U					
Aroclor	1221, Wipe	ug/Wipe	0.500000 U					
Aroclor	1232, Wipe	ug/Wipe	0.500000 U					
Aroctor	1242, Wipe	ug/Wipe	0.500000 U					
Aroclor	1248, Wipe	ug/Wipe	0.500000 U					
Aroclor	1254, Wipe	ug/Wipe	0.500000 U					
	1260, Wipe	ug/Wipe	0.500000 U					



QUALITY CONTROL RESULTS

Job Number.: 211929

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN:

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

Test Method.....: 8330 Equipment Code...: INST3536 Analyst...: san Method Description: Explosives by 8330 (HPLC) Batch......: 63872

LCD Laboratory Control Sample Duplicate 002HPL833A 63562 -003 09/24/2002 0101 Units QC Result QC Result QC Calc. Parameter/Test Description True Value Orig. Value Limits HMX, Wipe 7.856000 8.473500 10.000000 2.500000 U 79 ug/Wipe % 83-130 R 20 1.000000 U 82 8.155000 8.248000 10.000000 RDX, Wipe ug/Wipe % 83-117 R 20 7.382500 10.000000 1.000000 U 54 1,3,5-Trinitrobenzene, Wipe ug/Wipe 5.398000 83-115 R 20 1,3-Dinitrobenzene, Wipe ug/Wipe 7.867000 8.257500 10.000000 1.000000 U 79 % 84 - 115 R 20 Nitrobenzene, Wipe ug/Wipe 8.098500 8.438500 10.000000 1.000000 U 81 76-109 R 20 1.000000 U 33 2,4,6-TNT, Wipe ug/Wipe 3.314500 1.000000 U 10.000000 % 81-116 200 R 20 2.000000 U 20.000000 2.000000 U 0 2.000000 U 77-122 Tetryl, Wipe ug/Wipe % R 20 79-126 2,4-Dinitrotoluene, Wipe ug/Wipe 7.313000 7.996000 10.000000 1.000000 U 73 % R 20 2,6-Dinitrotoluene, Wipe ug/Wipe 14.777500 16.178000 20.000000 2,000000 U 74 % 79-120 R 20 2-Amino-4,6-Dinitrotoluene, Wipe ug/Wipe 15.164500 16,299500 20.000000 2,000000 U 76 84-114 R 20 4-Amino-2,6-Dinitrotoluene, Wipe ug/Wipe 22.057500 25.334000 20.000000 2.000000 U 110 % 84-117 R 20 2.000000 U 76 15.114500 16.262500 20.000000 74-111 2-Nitrotoluene, Wipe ug/Wipe % R 20 15.950500 20.000000 5.000000 U 74 4-Nitrotoluene, Wipe ug/Wipe 14.869000 75 - 113 % R 20 15.098500 16.365000 20,000000 2.000000 U 75 % 75-112 3-Nitrotoluene, Wipe ug/Wipe 8 R 20



QUALITY CONTROL RESULTS

Reag. Code

Job Number .: 211929

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

ATTN:

QC Type

Dilution Factor

Date

Time

Lab ID

Analyst...: san

Test Method....: 8330

Method Description.: Explosives by 8330 (HPLC)

Description

Equipment Code...: INST3536 Batch...... 63872

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	
MX, Wipe	ug/Wipe	8.473500		10.000000	2,500000 U	85	%	83-130	
RDX, Wipe	ug/Wipe	8.248000		10.000000	1.000000 U	82	%	83-117	
1,3,5-Trinitrobenzene, Wipe	ug/Wipe	7.382500		10.000000	1.000000 U	74	%	83-115	
1,3-Dinitrobenzene, Wipe	ug/Wipe	8.257500		10.000000	1.000000 U	83	%	84-115	
litrobenzene, Wipe	ug/Wipe	8.438500		10.000000	1.000000 U	84	%	76-109	
2,4,6-TNT, Wipe	ug/Wipe	1.000000 U		10.000000	1.000000 U	0	%	81-116	
etryl, Wipe	ug/Wipe	2.000000 U		20.000000	2.000000 U	9	%	77-122	
2,4-Dinitrotoluene, Wipe	ug/Wipe	7.996000		10.000000	1.000000 U	80	%	79-126	
,6-Dinitrotoluene, Wipe	ug/Wipe	16.178000		20.000000	2.000000 U	81	%	79-120	
P-Amino-4,6-Dinitrotoluene, Wipe	ug/Wipe	16.299500		20.000000	2.000000 U	81	%	84-114	
-Amino-2,6-Dinitrotoluene, Wipe	ug/Wipe	25.334000		20.000000	2.000000 U	127	%	84-117	
-Nitrotoluene, Wipe	ug/Wipe	16.262500		20.000000	2.000000 U	81	%	74-111	
-Nitrotoluene, Wipe	ug/Wipe	15.950500		20.000000	5.000000 U	80	%	75 - 113	
3-Nitrotoluene, Wipe	ug/Wipe	16.365000		20.000000	2.000000 U	82	%	75-112	



Date

Time

#### STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 211929

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN:

Description Lab ID Dilution Factor QC Type Reag. Code

Analyst...: san

Test Method.....: 8330 Method Description: Explosives by 8330 (HPLC) Equipment Code...: INST3536 Batch...... 63872

MB Method Blank				63562 -001				09	/23/	2002 2356
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig.	Value	QC	Calc.	*	Limits
HMX, Wipe	ug/Wipe	2.500000 U								
RDX, Wipe	ug/Wipe	1.000000 U								
1,3,5-Trinitrobenzene, Wîpe	ug/Wipe	1.000000 U								
1,3-Dinitrobenzene, Wîpe	ug/Wipe	1.000000 U								
Nîtrobenzene, Wîpe	ug/Wipe	1.000000 U								
2,4,6-TNT, Wipe	ug/Wipe	1.000000 U								
Tetryl, Wipe	ug/Wipe	2.000000 U								
2,4-Dinitrotoluene, Wipe	ug/Wipe	1,000000 U								
2,6-Dinitrotoluene, Wipe	ug/Wipe	2.000000 U								
2-Amino-4,6-Dinitrotoluene, Wipe	ug/Wipe	2.000000 U								
4-Amino-2,6-Dinitrotoluene, Wipe	ug/Wipe	2.000000 U								
2-Nitrotoluene, Wipe	ug/Wipe	2.000000 U								
-Nitrotoluene, Wipe	ug/Wipe	5,000000 U								
3-Nitrotoluene, Wipe	ug/Wipe	2.000000 U								



					-	
Job Number.: 211929	QUA	LITY CON	ITROL R	ESULTS	Report Date.: 09/26	/2002
CUSTOMER: SCS Engineers, Inc.		PROJECT: GSA	r - SLOP		ATTN: David Brewer	
QC Type Descripti	on	Re	ag. Code	Lab ID	Dilution Factor	Date Time
Test Method: 6010B Method Description.: Metals Analysis	(ICAP Trac	e)	Equipment Coo		Analyst	: tds
LCS Laboratory Control Samp	le	M021	SPK004	63171 -002		09/21/2002 0325
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC Calc	. * Limits
luminum, Wipe ntimony, Wipe rsenic, Wipe arium, Wipe eryllium, Wipe admium, Wipe alcium, Wipe hromium, Wipe hromium, Wipe cobalt, Wipe opper, Wipe ron, Wipe ead, Wipe agnesium, Wipe algnesium, Wipe ickel, Wipe otassium, Wipe elenium, Wipe ilver, Wipe hallium, Wipe anadium, Wipe anadium, Wipe inc, Wipe	mg/Wipe	0.18804 0.04362 0.00899 0.17847 0.00430 0.00446 0.91985 0.01863 0.04521 0.02279 0.09246 0.01007 0.91008 0.04608 0.04550 0.86588 0.00901 0.00440 0.00881 0.04576 0.04605		0.20000 0.05000 0.01000 0.20000 0.00500 1.00000 0.02500 0.02500 0.10000 0.01000 1.00000 0.05000 1.00000 0.05000 0.05000 0.05000 0.01000 0.01000 0.01000 0.05000 0.05000 0.05000	0.02000 U 94 0.00200 U 87 0.00100 U 90 0.00100 U 89 0.00040 U 86 0.00020 U 89 0.01000 U 92 0.00100 U 93 0.00050 U 90 0.00500 U 91 0.00500 U 91 0.00100 U 91 0.00100 U 91 0.00100 U 91 0.00100 U 91 0.00500 U 92 0.00100 U 91 0.00100 U 91 0.00100 U 91 0.00100 U 92 0.00100 U 92 0.00100 U 88 0.00050 U 88 0.00100 U 88 0.00050 U 92 0.00276 92	% 80-120 % 80-120
LCS Laboratory Control Samp	le	M021	SPK004	63266 -002		09/21/2002 0636
Parameter/Test Description	Units mg/Wipe	QC Result 0.17842	QC Result	True Value 0.20000	Orig. Value QC Calc	* Limits 80-120
Aluminum, Wipe Antimony, Wipe Arsenic, Wipe Barium, Wipe Baryllium, Wipe Cadmium, Wipe Chromium, Wipe Cobalt, Wipe Copper, Wipe Lron, Wipe Lead, Wipe Magnesium, Wipe Magnese, Wipe Mickel, Wipe Selenium, Wipe Selenium, Wipe	mg/Wipe	0.04271 0.00869 0.17370 0.00425 0.00436 0.89702 0.01835 0.02284 0.08324 0.0944 0.88299 0.04518 0.04479 0.00862 0.00430		0.05000 0.01000 0.20000 0.00500 1.00000 0.02500 0.02500 0.10000 0.01000 1.00000 0.05000 0.05000	0.00200 U 85 0.00100 U 87 0.00100 U 87 0.00040 U 85 0.00020 U 87 0.01000 U 90 0.00100 U 92 0.00050 U 89 0.00100 U 91 0.00500 U 83 0.00500 U 94 0.01000 U 90 0.00100 U 90 0.00100 U 90 0.00100 U 90 0.00100 U 90	% 80-120 % 80-120



Job Number.: 211929	QUA	LITY CO	NTROL R	ESULTS	Report Date.: 09/	26/2002
CUSTOMER: SCS Engineers, Inc.		PROJECT: GS	A - SLOP		ATTN:	
QC Type Descript	ion	R	eag. Code	Lab ID	Dîlution Factor	Date Time
Test Method: 6010B Method Description.: Metals Analysis	s (ICAP Trac	e)	Equipment Coc Batch		Analy	st: tds
MB Method Blank		631	71	63171 +001		09/21/2002 0318
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC Ca	lc. * Limits
Aluminum, Wipe	mg/Wipe	0.02000				
Antimony, Wipe	mg/Wipe	0.00200				
Arsenic, Wipe Barlum, Wipe	mg/Wipe	0.00100 0.00100				
Barium, wipe Beryllium, Wipe	mg/Wipe mg/Wipe	0.00100				
Cadmium, Wipe	mg/Wipe	0.00020				
Calcium, Wipe	mg/Wipe	0.01000				
Chromium, Wipe	mg/Wipe	0.00100				
Cobalt, Wipe	mg/Wipe	0.00050				
Copper, Wipe	mg/Wipe	0.00100				
Iron, Wipe	mg/Wipe	0.00500				
Lead, Wipe Magnesium, Wipe	mg/Wipe mg/Wipe	0.00500 0.01000				
Manganese, Wipe	mg/Wipe	0.00100				
Nickel, Wipe	mg/Wipe	0.00100				
Potassium, Wipe	mg/Wipe	0.05000				
Selenium, Wipe	mg/Wipe	0.00050	U			
Silver, Wipe	mg/Wipe	0.00050				
Thallium, Wipe	mg/Wipe	0.00100				
Vanadium, Wipe	mg/Wipe	0.00050	U			
Zinc, Wipe	mg/Wipe	0.00276				
MB Method Blank		632	'66	63266 -001		09/21/2002 0629
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC Ca	lc. * Limits
Aluminum, Wipe	mg/Wipe	0.02000				
Antimony, Wipe	mg/Wipe	0.00200				
Arsenic, Wipe	mg/Wipe	0.00100				
Barium, Wipe Beryllium, Wipe	mg/Wipe	0.00100 0.00040				
Deryttium, wipe Cadmium, Wipe	mg/Wipe mg/Wipe	0.00020				
Calcium, Wipe	mg/Wipe	0.01000				
Chromium, Wipe	mg/Wipe	0.00100				
Cobalt, Wipe	mg/Wîpe	0.00050	U			
Copper, Wipe	mg/Wipe	0.00100				
Iron, Wipe	mg/Wipe	0.00500				
Lead, Wipe	mg/Wipe	0.00500				
	mg/Wipe	0.01000				•
Magnesium, Wipe		0 00100				
Magnesium, Wipe Manganese, Wipe	mg/Wipe	0.00100				
Magnesium, Wipe Manganese, Wipe Nickel, Wipe	mg/Wipe mg/Wipe	0.00100	U			
Magnesium, Wipe Manganese, Wipe Nickel, Wipe Selenium, Wipe	mg/Wipe mg/Wipe mg/Wipe		ប ប			
Magnesium, Wipe Manganese, Wipe Nickel, Wipe Selenium, Wipe Silver, Wipe Thallium, Wipe	mg/Wipe mg/Wipe	0.00100 0.00050	ប U U			
Magnesium, Wipe Manganese, Wipe Wickel, Wipe Selenium, Wipe Silver, Wipe	mg/Wipe mg/Wipe mg/Wipe mg/Wipe	0.00100 0.00050 0.00050	บ บ บ บ บ			



QUALITY CONTROL RESULTS

Job Number.: 211929

Report Date.: 09/26/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

Description QC Type

ATTN: Dilution Factor

Date Time

Test Method....: 6010B

Reag. Code

Equipment Code...: ICP3

Lab ID

Analyst...: tds

Method Description.: Metals Analysis (ICAP Trace)

Batch....: 63524

SD Serial Dilution				211929-1		09	/21/2002 03	37
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits	F
Aluminum, Wipe	mg/Wipe	1.44652		***************************************	6.82623	6.0	D 10.0	****
Antimony, Wipe	mg/Wipe	0.00209			0.00983			
Arsenic, Wipe	mg/Wipe	0.00443			0.02187			
Barium, Wipe	mg/Wipe	0.32576			1.63305	0.3	D 10.0	
Beryllium, Wipe	mg/Wipe	0.00040 U			0.00040 U			
Cadmium, Wipe	mg/Wipe	0.00474			0.02276	4.1	D 10.0	
Calcium, Wipe	mg/Wipe	19.32851			95.77196	0:9	D 10.0	
Chromium, Wipe	mg/Wipe	0.02712			0.12940	4.8	D 10.0	
Cobalt, Wipe	mg/Wipe	0.02475			0.11 <del>69</del> 0	5.8	D 10.0	
Copper, Wipe	mg/Wipe	0.18231			0.95595	4.6	D 10.0	
Lead, Wipe	mg/Wipe	1.82391			8.40534	8.5	D 10.0	
Magnesium, Wipe	mg/Wipe	2.46903			11.53239	7.0	D 10.0	
Nickel, Wipe	mg/Wipe	0.01508			0.07070	6.7	D 10.0	
Potassium, Wipe	mg/Wipe	0.70038			3.96427	11.7	D 10.0	E
Selenium, Wipe	mg/Wipe	0.00105			0.00324			
Silver, Wipe	mg/Wipe	0.00239			0.01263			
Thallium, Wipe	mg/Wipe	0.00100 U			0.00160			
Vanadium, Wipe	mg/Wipe	0.00466			0.02334			



Orig. Value QC Calc.

0.10000 U 87

\* Limits

80-120

%

QUALITY CONTROL RESULTS Report Date.: 09/26/2002 Job Number.: 211929 CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN: Dilution Factor Description Lab ID Reag. Code Date Time QC Type Test Method.....: 6010B Analyst...: tds Equipment Code...: ICP4 Method Description.: Metals Analysis (ICAP Trace) Batch..... 63632 09/23/2002 2131 LCS Laboratory Control Sample MOZISPKO04 63171 -002 Parameter/Test Description Units QC Result QC Result True Value Orig. Value QC Calc. Limits 0.00020 U 91 mg/Wipe 0.00457 0.00500 % 80-120 Cadmium, Wipe mg/Wipe 0.94866 1.00000 0.01264 95 80-120 Calcium, Wipe 0.02500 0.00100 U 95 80-120 0.02376 % Copper, Wipe mg/Wipe Iron, Wipe mg/Wipe 0.09768 0.10000 0.00500 U 98 % 80-120 mg/Wipe 0.05000 0.00100 U 96 80-120 Manganese, Wipe 0.04815 80-120 0.01000 0.00050 U 86 % 0.00865 Selenium, Wipe mg/Wipe Sodium, Wipe Zinc, Wipe mg/Wipe 0.87481 1.00000 0.10000 U 87 80-120 80-120 0.05000 0.00302 97 0.04836 mg/Wipe M021SPK004 63266 -002 09/24/2002 0131 LES Laboratory Control Sample

QC Result

True Value

Parameter/Test Description

Sodium, Wipe

Units

mg/Wipe

QC Result

0.86841



Job Number.: 211	Q U A L 929	ITY CON	TROL R	E S U L T S	Report Date.: 09/2	26/2002
CUSTOMER: SCS Engineers, Inc.		PROJECT: GSA	- SLOP		ATTN:	
QC Type De	scription	Rea	g. Code	Lab ID	Dilution Factor	Date Time
Test Method: 6010B Method Description.: Metals A	nalysis (ICAP Trace			de: ICP4 : 63632	Analys	t: tds
MB Method Blank		63171		63171 -001		09/23/2002 2125
Parameter/Test Descrip	tion Units	QC Result	QC Result	True Value	Orig. Value QC Cal	c. * Limits
Cadmium, Wipe Calcium, Wipe Copper, Wipe Iron, Wipe Manganese, Wipe Selenium, Wipe Sodium, Wipe Zinc, Wipe	mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe	0.00020 U 0.01264 0.00100 U 0.00500 U 0.00100 U 0.00050 U 0.10000 U 0.00302				
MB Method Blank Parameter/Test Descrip	tion Units	63266	QC Result	63266 -001 True Value	Orig, Value QC Cal	09/24/2002 0125 c. * Limits

0.10000 U

mg/Wipe

Sodium, Wipe



# STL Chicago

Job Number.: 211929	QUA	LITY CO	NTROL R	ESULTS	Report Date	e.: 09/26/	2002
CUSTOMER: SCS Engineers, Inc.		PROJECT: GS	A - SLOP		ATTN:		
QC Type Descript	ion	R	eag. Code	Lab ID	Dilution F	actor	Date Time
Test Method: 6010B Method Description.: Metals Analysis	s (ICAP Trac	e)	Equipment Coc Batch			Analyst.	: tds
SD Serial Dilution				211929-1	5	0	9/23/2002 2150
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits
Iron, Wipe Manganese, Wipe Sodium, Wipe	mg/Wipe mg/Wipe mg/Wipe	32.49867 0.25666 0.50000	U	with the second control of the second contro	149.15451 1.17478 2.56642	8.9 9.2	D 10.0 D 10.0
SD Serial Dilution				211929-1	25	0	9/23/2002 2156
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits
Zinc, Wipe	mg/Wipe	5.23432			20.70064	26.4	D 10.0



# QUALITY ASSURANCE METHODS REFERENCES AND NOTES

Report Date: 09/26/2002

#### 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 AZ0603.
- 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.
- Result is less than the RL, but greater than or equal to the method detection limit. J
- В Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
- Result was determined by the Method of Standard Additions. S
- AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.
- Inorganic Flags (Flag Column)
  - ICV,CCV,ICB,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.
- SD: Serial dilution exceeds the control limits. Ε Н
  - 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.
  - AS(GFAA) Post-digestion spike was outside 85-115% control limits.

#### Organic Qualifiers (Q - Column)

- Analyte was not detected at or above the stated limit. 11
- Compound not detected. ND

Z

- 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.
- The chromatographic response resembles a typical fuel pattern. Υ
- The chromatographic response does not resemble a typical fuel pattern.
- Result exceeded calibration range, secondary dilution required.
- AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC) Organic Flags (Flags Column)
- В 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
- Concentration exceeds the instrument calibration range Α
- Concentration is below the method Reporting Limit (RL) а
- В Compound was found in the blank and sample.
- Surrogate or matrix spike recoveries were not D
  - obtained because the extract was diluted for
  - analysis; also compounds analyzed at a dilution will be flagged with a D.
- Alternate peak selection upon analytical review H
- Indicates the presence of an interfence, recovery is not calculated. I
- М Manually integrated compound.



#### QUALITY ASSURANCE METHODS

#### REFERENCES AND NOTES

Report Date: 09/26/2002

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 С1 Confirmation analysis of A1 or D1  $c_2$ Confirmation analysis of A2 or D2 С3 Confirmation analysis of A3 or D3 CRA Low Level Standard Check - GFAA; Mercury CRI Low Level Standard Check - ICP CV Calilbration Verification Standard Dil Fac Dilution Factor - Secondary dilution analysis Dilution 1 **D1** 02 Dilution 2 D3 Dilution 3 DLFac Detection Limit Factor Distilled Standard - High Level DSH Distilled Standard - Low Level DSL Distilled Standard - Medium Level DSM EB1 Extraction Blank 1 EB2 Extraction Blank 2 DI Blank EB3 ELC Method Extracted LCS Method Extracted LCD ELD I CAL Initial calibration LCB Initial Calibration Blank ICV Initial Calibration Verification IDL Instrument Detection Limit Interference Check Sample A - ICAP ISA ISB Interference Check Sample B - ICAP Joh 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 MLE Medium Level Extraction Blank MRI Method Reporting Limit Standard Method of Standard Additions MSA Matrix Spike MS MSD Matrix Spike Duplicate Not Detected NĐ PREPF Preparation factor used by the Laboratory's Information Management System (LIMS) PDS Post Digestion Spike (ICAP) RA Re-analysis of original Α1 Re-analysis of D1 Δ2 Re-analysis of D2 Α3 Re-analysis of D3 RD Re-extraction of dilution ŘΕ Re-extraction of original RCRe-extraction Confirmation RŁ Reporting Limit RPD Relative Percent Difference of duplicate (unrounded) analyses RRF Relative Response Factor



# QUALITY ASSURANCE METHODS REFERENCES AND NOTES

Report Date: 09/26/2002

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
SCB	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
	: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current
	ation used. EX. LCS S=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)
	: The MD calculates an absolute difference (A) when the sample concentration is less than 5 times the
report	ng limit. The control limit is represented as +/- the RL.

Shaded Areas For Internal Use Only of 2  Lab Lot# 21/929  Package Sealed Samples Sealed Yes No Yes N	No No Chec	Sample Labels and COC Agree  (Fes) No COC not present	Additional Analyses / Remarks					and the state of t					DATELL	IMIL 2 and	Date Received 9/11/02 Courier: FA Hand Delivered Bill of Lading See attack
Bill To:  Contact: Scarcty Weeks  Company: SCS  Address:  Phone:  Fax:  Ougle:	and a second sec												(d)	COMPANY COMPANY	
			18/ch		i i								RECEIVED BY	RECEIVED BY	COMMENTS
Report To: Drave Hermylaman Company: SCS Address: 10401 Holmes Reft 400 Koursan City MO 64131 Phone: 816 941 F 10 Fax: 816 941 F 10 Fax: 816 941 8025	Refrg### / Cont. 3 Volume Presery #\(\text{HUO}\) \rightarrow \rig	.57	Comp Sylv	-									0.07 TIME & OO	1	Preservative Key HCI, Cool to 4 H2SO4, Cool to 4 HNO3, Cool to 4 NAOH, Cool to 4 NAOH, Cool to 4 NAOH/Zn, Cool to 4 NAOH/Zn, Cool to 4 Cool to 4 None
Report To: Brave Hest Company: SCS Address: 10401 H Kaussers Ct Phone: 816 941 7 Fax: 816 941 8 E-Mall: DBrewer@ss	(a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		Sampling Date Time	_	3330	14:30	5,00	5:30	30.0	6:15	6:30	6:45	DATE 9.10	DATE	Container Key Plastic 1. VoA vial Sterile Plastic 3. Amber Glass Widemouth Glass 6. Other
Report Conta Comp Addre Phone Fax: E-Mail	F0220	Date Required Hard Copy:	Client Sample ID		550 WS1	OSFUSZ	251		1253 54	255	105W56	450	OO COMPANY SCK	COMPANY	1. P 2. W 2. W 1. Solid 3. Solid 1. Liquid 1. An 1. An
SEVERN TRENT SERVICES STL Chicago 2417 Bond Street University Park, IL 60466 Phone: 708-534-5200 Fax: 708-534-5211	Sampler Name:  Brett Engard  Project Name:  CSA SCOP	Project Location: Lab PM:	Laboratory MS DID MS		3 105F WS	4 105F	105		2 (SO) <b>Z</b>		1501 01	20201	ED BY	RELINQUISHED BY	WW = Wastewater SE = Sedir W = Water SO= Solid S = Soli DS = Drum SL = Sludge DL = Drum MS = Miscellaneous L = Leach OL = Oil WI = Wipe

Shaded Areas For Internal Use Only 2. of 2 Preserv. Indicated Samples Sealed
Yes (No) Res Cl<sub>2</sub> Check OK Samples Intact COC not present ઠ TIME 845 Hand Delivered Additional Analyses / Remarks Yes No Bill of Lading See attach Sample Labels and COC Agree 1 211929 Temperature 'C of Cooler DATENING Within Hold Time (Yes) No Date Received 9 Package Sealed (FeS) No Received on Ice PH Check QK 区 (Yes ) No Yes No Lab Lot# Courier: COMPANY COMPANY Contact. Sandy Cecks Quote: (b) (6) RECEIVED BY RECEIVED BY COMMENTS Company: Address: Bill To: Phone: EMail: D'Brewer & SSSENGINES, CONROH. Fax: Address: 10401 Holmes Lot # 400 TIME & I OU KANSAJ CA+, MO6413 acetonia HCi, Cool to 4°
 H2SO4, Cool to 4°
 HNO3, Cool to 4°
 NaOH, Cool to 4°
 NaOH/Zn, Cool to 4°
 NaOH/Zn, Cool to 4°
 Noor Hennythmen Preservative Key # / Cont. Comp/Grab Preserv Volume Brewer Refrg # DATE 9.10.07 Phone: 8/6 941 2510 5208 1/16 018 <u>3</u> <u>2</u> XirisM 71:15 Book 7.70 Time Sampling DATE Contact: Dave 022070021 Company: SC S (b) (6) Container Key Date Widemouth Glass Plastic VOA Vial Sterile Plastic Amber Glass Report To: Project Number: Hard Copy: Fax: Date Required 4 2 6 6 6 COMPANY COMPANY Sample ID Matrix Key

SE = Sediment

SO = Solid

DS = Drum Solid

DL = Drum Liquid

L = Leachate

Wl = Wipe 01507501 05/150 (b) (6) Brett Engant University Park, IL 60466 ast sup SEVERN Phone: 708-534-5200 708-534-5211 TRENT usw-sw SERVICES W = Water
S = Soil
SL = Studge
MS = Miscellaneous
OL = Oil
A = Air Project Location: 2417 Bond Street Sampler Name: RELINQUISHED BY Project Name: RELINQUISHED BY WW = Wastewater Laboratory STL Chicago 7 9 Lab PM: Fax:



# SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 211976

Prepared For:

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

Project: GSA - SLOP - Investigation

Attention: David Brewer

Date: 09/27/2002

(b) (6)

Signature

Name: Richard C. Wright

Title: Project Manager

E-Mail: rwright@stl-inc.com

9/27/02

Date

STL Chicago 2417 Bond Street

University Park, IL 60466

PHONE: (708) 534-5200 FAX..: (708) 534-5211

# Severn Trent Laboratories - Chicago METALS CASE NARRATIVE

Client: SCS Engineers, Inc

Project: GSA - SLOP STL Job#: 211976

This narrative covers the Metals analysis of Wipe samples in the above Job. 1.

Method Refs: USEPA, SW 846

- All analyses were performed within the required holding times. 2.
- 3. All Initial and Continuing Calibration Verification (ICV/CCV's) were within control limits.
- All Initial and Continuing Calibration Blanks (ICB/CCB's) were within control limits. 4.
- All Preparation/Method Blanks were below the Reporting Limit. 5.
- Laboratory Control Sample recoveries were within the 80-120% control limits. 6.
- 7. Matrix QC was not requested.

(b) (6)

Mani S. Iyer Metals Section Manager

Date Recd: 09/12/02

# STL Chicago PCB Case Narrative

SCS Engineers, Inc. GSA - SLOP - Investigation Job #: 211976-1 through 11 **PCBs** 

3 M 3 3 3

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

ID#	INSTRUMENT	COLUMN TYPE	DETECTOR
07	Varian 3400	Rtx-5	Electron Capture
08	Varian 3400	Rtx-Clp2	Electron Capture

- These wipe samples were extracted based on SW846 method 3550. The extracts were 2. 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.
- The method blank was below the reporting limits for all Aroclors. 4.
- 5. The surrogate compounds used for this analysis were Decachlorobiphenyl (DCB) and Tetrachloro-m-xylene (TCX). All surrogate recoveries were within statistical control limits.
- 6. A solution containing Aroclor 1016 and Aroclor 1260 was used for spiking.
- 7. The blank spike and blank spike duplicate recoveries and RPDs were within statistical control limits.
- 8. A matrix spike and a matrix spike duplicate were not performed on a sample from this SDG.
- All initial and continuing standard calibrations associated with these samples were in 9. control on both columns.
- 10. All positive hits were confirmed using a second column. Results from the primary column (Rtx-5) only have been reported.

(b) (6)

Patti Gibson

Organics Section Manager

9/25/02

# STL Chicago Explosives Case Narrative

SCS Engineers, Inc. GSA – SLOP - Investigation Job #: 211976-1 through 11 Explosives

1. STL Chicago uses the following HPLC systems for analysis of Nitroaromatics and Nitramines:

ID#	INSTRUMENT	COLUMN TYPE	DETECTOR
43	Agilent 1100	C-18	UV - 254nm
44	Agilent 1100	CN	UV - 254nm

- 2. These wipe samples were extracted based on a modified SW846 method 8330 and analyzed for explosives based on SW846 method 8330.
- 3. All required holding times were met for the extraction and analysis.
- 4. The method blank was below the reporting limit for all target compounds.
- 5. The surrogate compound used for this analysis was 1,2-Dinitrobenzene (1,2-DNB), All surrogate recoveries were within statistical control limits with the exception of sample 211976-6 (105CCSWS1), which had a recovery of 158%.
- 6. The blank spike had 1,3, 5-Trinitrobenzene with 53% recovery, 2, 4, 6-TNT with 44%, Tetryl with 0% recovery, and 4-Amino-2,6-Dinitrotoluene with 157%. The blank spike duplicate recoveries had 2,4,6-TNT with 63% recovery, Tetryl with 0% recovery, and 4-Amino-2,6-Dinitrotoluene with 168% recovery. All other blank spike and blank spike recoveries were within statistical control limits. All RPDs were <20%, except Tetryl (200%), 2,4,6-TNT (37%) and 1,3,5-Trinitrobenzene (52%). There was insufficient sample volume to re-extract.
- 7. A matrix spike and a matrix spike duplicate were not performed on a sample from this SDG.
- 8. All initial and continuing standard calibrations associated with these samples were in control on the primary column (C18).
- 9. All initial and continuing standard calibrations associated with these samples were in control on the confirmation column (CN).
- 10. Target compounds were not detected in the primary analysis.

11. All samples were analyzed at a 1/2 dilution due to matrix interference. Reporting limits were adjusted to reflect these necessary dilutions.

(b) (6)

1 × 1 1

Patti Gibson Organics Section Manager 9/27/02 Date



SAMPLE INFORMATION Date: 09/27/2002

Job Number.: 211976

3 3

Customer...: SCS Engineers, Inc.

Attn....: David Brewer

Project Number..... 20002601

Customer Project ID...: GSA - SLOP Project Description...: GSA - SLOP - Investigation

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
211976-1	105ECSWS1	Wipe	09/11/2002	10:45	09/12/2002	09:10
211976-2	105ECSWS2	Wipe	09/11/2002	10:50	09/12/2002	09:10
211976-3	105FCSWS1	Wipe	09/11/2002	11:15	09/12/2002	09:10
211976-4	105FCSWS2	Wipe	09/11/2002	11:30	09/12/2002	09:10
211976-5	105EFTUNNELWS1	Wipe	09/11/2002	11:45	09/12/2002	09:10
211976-6	105ccsws1	Wipe	09/11/2002	13:45	09/12/2002	09:10
211976-7	105ccsws2	Wipe	09/11/2002	13:55	09/12/2002	09:10
211976-8	105BCSWS1	Wipe	09/11/2002	14:15	09/12/2002	09:10
211976-9	105BCSWS2	Wipe Wipe	09/11/2002	14:13	09/12/2002	09:10
211976-9	105DCSWS1	Wipe	09/11/2002	17:00	09/12/2002	09:10
211976-10	105DCSWS2		09/11/2002	17:10	09/12/2002	09:10
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State   Parameter   Paramete	Custome Date Sa Time Sa Sample P	Customer Sample ID: 105ECSWS1 Date Sampled: 09/11/2002 Time Sampled: 10:45 Sample Matrix: Wipe			atory Sample Received	ID: 211976-1 : 09/12/2002 : 09:10					
PCB Analysis   Arcolor 1016, wipe	TEST METHOD	1000	E RESULT		TOX	RL	DILUTION	UNITS	100	1.3.5	TECH
Explosives by 8330 (HPLC)  ND  ND  U  This is a constant of the constraint of the co	8082	PCB Analysis Aroclor 1016, Wipe Aroclor 1221, Wipe Aroclor 1232, Wipe Aroclor 1242, Wipe Aroclor 1254, Wipe Aroclor 1260, Wipe		22222	0.50 0.50 0.50 0.50 0.50	0,50 0.50 0.50 0.50 0.50 0.50	000000000000000000000000000000000000000	ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe	63712 63712 63712 63712 63712 63712		411 agk 411 agk 411 agk 411 agk 411 agk
Metals Analysis (ICAP Trace)       1.2       0.020       0.020       1       mg/wipe       63524       09/21/02         Aluminum, Wipe       ND       0.0020       0.0020       1       mg/wipe       63524       09/21/02         Antimony, Wipe       0.0010       0.0010       1       mg/wipe       63524       09/21/02		Explosives by 8330 (HPLC) HMX, Wipe RDX, Wipe 1,3,5-Trinitrobenzene, Wipe 1,3-Dinitrobenzene, Wipe 2,4,6-INT, Wipe Tetryl, Wipe 2,4-Dinitrotoluene, Wipe 2,4-Dinitrotoluene, Wipe 2,5-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2-Amino-2,6-Dinitrotoluene, Wipe 4-Amino-2,6-Dinitrotoluene, Wipe 4-Nitrotoluene, Wipe 5-Nitrotoluene, Wipe 6-Nitrotoluene, Wipe 7-Nitrotoluene, Wipe 8-Nitrotoluene, Wipe 8-Nitrotoluene, Wipe			200000004044400 0.0000000000000000000000	2.0.0.0.0.4.4.4.0.4 0.0.0.0.0.4.4.4.0.4	2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000	ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe	64020 64020 64020 64020 64020 64020 64020 64020 64020 64020 64020		000 san 000 san 000 san 000 san 000 san 000 san 000 san 000 san 000 san 000 san
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r: 2119	Inc.	D: 105Ecs .: 09/11/ .: 10:45 .: Wipe	PARAN	Mipe Wipe Wipe Wipe Wipe Wipe Wipe Wipe W
Job Number: 211976	CUSTOMER: SCS Engineers,	Customer Sample ID: Date Sampled: Time Sampled: Sample Matrix:		Barium, Wipe Beryllium, Wipe Calcium, Wipe Chromium, Wipe Chromium, Wipe Copper, Wipe Lead, Wipe Hagnesium, Wipe Nickel, Wipe Nickel, Wipe Nickel, Wipe Selenium, Wipe Selenium, Wipe Sodium, Wipe Silver, Wipe Thallium, Wipe Silver, Wipe
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	Job Number: 211976	ABORATORY	E S	RESUL	S <del>L</del>		Date:0	Date:09/27/2002		
CUSTOMER: SCS	Engineers, Inc.	PROJECT:	: GSA - SL	SLOP			ATTN:	David Br	Вгемег	
Custome Date Sa Time Sa Sample	Customer Sample ID: 105ECSWS2 Date Sampled: 09/11/2002 Time Sampled: 10:50 Sample Matrix: Wipe		Labor Date   Time	Laboratory Sample ID: Date Received: Time Received:	(D: 211976-2 : 09/12/2002 : 09:10					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	O FLAGS	T <sub>QM</sub>	<b>V</b>	DILUTION	UNITS	ВАТСН	DT DATE/TIME	TME TECH
8082	PCB Analysis Aroclor 1016, Wipe Aroclor 1221, Wipe Aroclor 1242, Wipe Aroclor 1248, Wipe Aroclor 1254, Wipe Aroclor 1260, Wipe	222222	22222	0.50 0.50 0.50 0.50 0.50 0.50	0.50 0.50 0.50 0.50 0.50 0.50	1.00000 1.00000 1.00000 1.00000 1.00000	ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe	63712 63712 63712 63712 63712 63712 63712	09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02	1214 mgk 1214 mgk 1214 mgk 1214 mgk 1214 mgk 1214 mgk
8330	Explosives by 8330 (HPLC) HMX, Wipe RDX, Wipe 1,3,5-Trinitrobenzene, Wipe 1,3-Dinitrobenzene, Wipe 2,4,6-TNI, Wipe 2,4-Dinitrotoluene, Wipe 2,4-Dinitrotoluene, Wipe 2,4-Dinitrotoluene, Wipe 2,4-Dinitrotoluene, Wipe 2,4-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2-Amino-2,6-Dinitrotoluene, Wipe 2-Nitrotoluene, Wipe 4-Nitrotoluene, Wipe 3-Nitrotoluene, Wipe	2222222222222222	* ** *	20000000000000000000000000000000000000	2.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 3.00000 3.00000	ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe	64020 64020 64020 64020 64020 64020 64020 64020 64020 64020 64020 64020	09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02	1305 san 1305 san
60108	Metals Analysis (ICAP Trace) Aluminum, Wipe Antimony, Wipe Arsenic, Wipe	0° 88 ON ON ON		0.020 0.0020 0.0010	0.020 0.0020 0.0010		mg/Wipe mg/Wipe mg/Wipe	63524 63524 63524	09/21/02 09/21/02 09/21/02	0654 tds 0654 tds 0654 tds
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\* In Description = Dry Wgt.



Job Number: 211976	LABORATOR	YTES	ST RESUL	S L		Date:C	Date:09/27/2002		
CUSTOMER: SCS Engineers, Inc.	PROJECT	- GSA -	Stop			ATTN:	David Brewer	207	
Customer Sample ID: 105ECSWS2 Date Sampled: 09/11/2002 Time Sampled: 10:50 Sample Matrix: Wipe		Lab Dat Tim	Laboratory Sample ID: Date Received: Time Received	10: 211976-2 : 09/12/2002 : 09:10					
TEST METHOD PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	a FLAGS	J	<b>Z</b>	DILUTION	UNITS	BATCH D	DT DATE/TIME	TECH
Barium, Wipe Cadmium, Wipe Calcium, Wipe Calcium, Wipe Chromium, Wipe Copper, Wipe Iron, Wipe Iron, Wipe Magnesium, Wipe Magnesium, Wipe Nickel, Wipe Potassium, Wipe Selenium, Wipe Soliver, Wipe Soliver, Wipe Soliver, Wipe Solium, Wipe	ND 17 0.0031 ND 0.0031 ND 0.0031 ND 0.0055 0.055 0.055 0.0012 ND 0.0019 ND 0.0019 0.057	22 2 2 2	0.0010 0.0002 0.0010 0.0010 0.0010 0.0010 0.010 0.0010 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0010 0.0002 0.0002 0.0010 0.0010 0.0010 0.0010 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	+	mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe	63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524	09/21/02 0654 09/21/02 0654	24
* In Description = Dry Wgt.		Page 5							



	Job Number: 211976	ABORATORY	<u>+</u>	STRESUL	S		Date: 04	Date:09/27/2002	***************************************	
CUSTOMER: SCS Engineers,	Engineers, Inc.	PROJECT:	GSA -	SLOP			ATTN:	David Brewer	Mer	
Custome Date Sar Time Sar Sample	Customer Sample ID: 105FCSWS1 Date Sampled: 09/11/2002 Time Sampled: 11:15 Sample Matrix: Wipe		Lal Da	Laboratory Sample ID: 21197 Date Received: 09/12 Time Received: 09:10	.D: 211976-3 : 09/12/2002 : 09:10					
TEST METHOD	PARAMETER/IEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	TQV	7	DILUTION	UNITS	BATCH D	DT DATE/TIME	ME TECH
8082	PCB Analysis Aroclor 1016, Wipe Aroclor 1221, Wipe Aroclor 1232, Wipe Aroclor 1242, Wipe Aroclor 1254, Wipe Aroclor 1260, Wipe	ON ON ON ON ON ON ON ON ON ON ON ON ON O	00000	0.50 0.50 0.50 0.50 0.50 0.50	0.50 0.50 0.50 0.50 0.50 0.50	1,00000 1,00000 1,00000 1,00000 1,00000	ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe	63712 63712 63712 63712 63712 63712 63712	09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02	1247 mgk 1247 mgk 1247 mgk 1247 mgk 1247 mgk 1247 mgk
8330	Explosives by 8330 (HPLC) HMX, Wipe RDX, Wipe 1,3,5-Trinitrobenzene, Wipe 1,3-Dinitrobenzene, Wipe 1,4,6-TNI, Wipe 2,4,6-TNI, Wipe 2,4-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,1-Amino-2,6-Dinitrotoluene, Wipe 2-Amino-2,6-Dinitrotoluene, Wipe 2-Nitrotoluene, Wipe 3-Nitrotoluene, Wipe 4-Nitrotoluene, Wipe 3-Nitrotoluene, Wipe	Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	* ** *	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	2.0 2.0 2.0 2.0 2.0 4.0 4.0 4.0 4.0	2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000	ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe	64020 64020 64020 64020 64020 64020 64020 64020 64020 64020	09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02	1410 san 1410 san
60108	Metals Analysis (ICAP Trace) Aluminum, Wipe Antimony, Wipe Arsenic, Wipe	0.55 ND ND	<b>3</b> 3	0,020 0,0020 0,0010	0.020 0.0020 0.0010	from from don	mg/Wipe mg/Wipe mg/Wipe	63524 63524 63524	09/21/02 09/21/02 09/21/02	0700 tds 0700 tds 0700 tds
	* In Description = Dry Wgt.		Page 6		Action to the second se	The state of the s		,		



Job Number: 211976	ER: SCS Engineers, Inc.  Customer Sample ID: 105FCSWS2 Date Sampled: 09/11/2002 Time Sampled: 11:30 Sample Matrix: Wipe	TEST METHOD PARAMETER/TEST DESCRIPTION	PCB Analysis Aroclor 1016, Wipe Aroclor 1221, Wipe Aroclor 1242, Wipe Aroclor 1242, Wipe Aroclor 1254, Wipe Aroclor 1254, Wipe	Explosives by 8330 (HPLC) HMX, Wipe RDX, Wipe 1,3,5-Trinitrobenzene, Wipe 1,3-Dinitrobenzene, Wipe 2,4,6-TMI, Wipe Tetryl, Wipe 2,4-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2-Amino-2,6-Dinitrotoluene, Wipe 2-Amino-2,6-Dinitrotoluene, Wipe 4-Amino-2,6-Dinitrotoluene, Wipe 3-Nitrotoluene, Wipe 3-Nitrotoluene, Wipe	Metals Analysis (ICAP Trace) Aluminum, Wipe Antimony, Wipe Arsenic, Wipe
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BORATORY	PROJECTS	AMPLE RESULT  0.0079  16  0.0020  0.053  0.053  0.012  1.4  0.0009  1.8  0.0005  0.0076
L A		22 2 2
Job Number: 211976	ER: SCS Engineers, Inc. Customer Sample ID: 105FCSWS2 Date Sampled: 09/11/2002 Time Sampled: 11:30 Sample Matrix: Wipe	Barium, Wipe Barium, Wipe Cadmium, Wipe Calcium, Wipe Chromium, Wipe Chromium, Wipe Chromium, Wipe Cobalt, Wipe Copper, Wipe Iron, Wipe Manganese, Wipe Manganese, Wipe Nickel, Wipe Potassium, Wipe Selenium, Wipe Sodium, Wipe Sodium, Wipe Yanadium, Wipe Silver, Wipe Yanadium, Wipe Silver, Wipe Sodium, Wipe Silver, Wipe Silver, Wipe Thallium, Wipe
	CUSTOWER: SCS Customer Date Sam Time Sample M	TEST METHOD

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To company the part of the company o	Job Number: 211976	ABORATORY	- E	RESULT	s		Date:09	Date:09/27/2002		
CUSTOMER: SCS	Engineers, inc.	PROJECT	: CSA - SL	SLOP			ATTN:	David Brewer	JəM	
Customer Date San Time San Sample M	Customer Sample ID: 105EFTUNNELWS1 Date Sampled: 09/11/2002 Time Sampled: 11:45 Sample Matrix: Wipe		Labor Date Time	Laboratory Sample 1D: Date Received: Time Received	: 211976-5 : 09/12/2002 : 09:10					
TEST METHOD	PARAMETER/TEST_DESCRIPTION	SAMPLE RESULT	Q FLAGS	JQw	*	DILUTION	UNITS	ВАТСН D	DT DATE/TIME	ECH
8082	PCB Analysis Aroclor 1016, Wipe Aroclor 1221, Wipe Aroclor 1232, Wipe Aroclor 1242, Wipe Aroclor 1254, Wipe Aroclor 1260, Wipe	8 8 8 8 8 8 8 8 8 8 8 8 8 8	222225	0.50 0.50 0.50 0.50 0.50 0.50	0.50 0.50 0.50 0.50 0.50 0.50 0.50	1.00000 1.00000 1.00000 1.00000 1.00000	ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe	63712 63712 63712 63712 63712 63712	09/21/02 1 09/21/02 1 09/21/02 1 09/21/02 1 09/21/02 1	1352 mgk 1352 mgk 1352 mgk 1352 mgk 1352 mgk 1352 mgk
8330	Explosives by 8330 (HPLC) HMX, Wipe RDX, Wipe 1,3,5-Trinitrobenzene, Wipe 1,3-Dinitrobenzene, Wipe 2,4,6-TNT, Wipe Tetryl, Wipe 2,4-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 4-Amino-2,6-Dinitrotoluene, Wipe 2-Nitrotoluene, Wipe 4-Nitrotoluene, Wipe 3-Nitrotoluene, Wipe	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	* ** *	20.00.00.00.00.00.00.00.00.00.00.00.00.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	2.0000 2.0000 2.0000 2.0000 2.0000 2.0000 2.0000 2.0000 2.0000 2.0000	ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe	64020 64020 64020 64020 64020 64020 64020 64020 64020	09/26/02 1 09/26/02 1 09/26/02 1 09/26/02 1 09/26/02 1 09/26/02 1 09/26/02 1 09/26/02 1 09/26/02 1 09/26/02 1	1653 san 1653 san
6010B	Metals Analysis (ICAP Trace) Aluminum, Wipe Antimony, Wipe Arsenic, Wipe	ND ND	<b>3</b> 5	0.020 0.0020 0.0010	0.020 0.0020 0.0010	<b>- - -</b>	mg/Wipe mg/Wipe mg/Wipe	63524 63524 63524	09/21/02 0 09/21/02 0 09/21/02 0	0732 tds 0732 tds 0732 tds

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	Job Number: 211976	ABORATOR	Y	TRESUL	S L		Date:0	Date:09/27/2002		
CUSTOMER: SCS Engineers,	Engineers, Inc.	PROJECT	: GSA - SL	SLOP			ATTN:	David Brewer	rer	
Customer Date Sam Time Sam Sample M	Customer Sample ID: 105EFTUNNELWS1 Date Sampled: 09/11/2002 Time Sampled: 11:45 Sample Matrix: Wipe		Labor Date   Time	Laboratory Sample ID: Date Received: Time Received:	0: 211976-5 .: 09/12/2002 .: 09:10					
TEST METHOD	Barium, Wipe Barium, Wipe Cadmium, Wipe Calcium, Wipe Calcium, Wipe Copper, Wipe Lead, Wipe Maganese, Wipe Maganese, Wipe Nickel, Wipe Soldium, Wipe Soldium, Wipe Nickel, Wipe Nickel, Wipe Nickel, Wipe Naganese, Wipe Nickel, Wipe Nickel, Wipe Soldium, Wipe Soldium, Wipe Soldium, Wipe Thallium, Wipe Thallium, Wipe	SAMPLE RESULT  0.010  0.010  14  14  0.003  0.002  0.0022  0.0022  0.0022  0.0022  0.0022  0.0022  0.0029  0.0029  ND  1.2  ND  0.0029	S LLAGS	MDL 0.0010 0.0004 0.0005 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0005 0.0005 0.0010 0.0010 0.0005	RL 0.0010 0.0004 0.0002 0.0010 0.0010 0.0050 0.0010 0.0010 0.0010 0.0010 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	01101	UNITS  UNITS  mg/wipe	63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524	DATE/T1 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02	ME TECH 0732 tds



	Job Number: 211976	ABORATORY	T E S	RESUL	ω ;		Date:0	Date:09/27/2002		:	
CUSTOMER: SCS	Engineers, Inc.	PROJECT:	GSA - SLOP	60			ATTN:	David Br	Вгемег		
Customer Date Sam Time Sam Sample M	Customer Sample ID: 105CCSWS1 Date Sampled: 09/11/2002 Time Sampled: 13:45 Sample Matrix: Wipe		Labor Date Time	Laboratory Sample ID: Date Received Time Received	D: 211976-6 .: 09/12/2002 .: 09:10	•					***************************************
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	TOM	<b></b>	DILUTION	UNITS	ВАТСН	DT DATE	DATE/TIME	TE CH
8082	PCB Analysis Aroclor 1016, Wipe Aroclor 1221, Wipe Aroclor 1232, Wipe Aroclor 1248, Wipe Aroclor 1254, Wipe Aroclor 1254, Wipe	N O O O O O O O O O O O O O O O O O O O	22222	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	10.0000 10.0000 10.0000 10.0000 10.0000 10.0000	ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe	63712 63712 63712 63712 63712 63712 63712	09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02	02 1424 02 1424 02 1424 02 1424 02 1424 02 1424	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
8330	Explosives by 8330 (HPLC) HMX, Wipe RDX, Wipe 1,3,5-Trinitrobenzene, Wipe 1,3,5-Trinitrobenzene, Wipe 1,4,6-TNT, Wipe 2,4,6-TNT, Wipe 2,4-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2-Amino-2,6-Dinitrotoluene, Wipe 4-Amino-2,6-Dinitrotoluene, Wipe 6-Nitrotoluene, Wipe 7-Nitrotoluene, Wipe 8-Nitrotoluene, Wipe 7-Nitrotoluene, Wipe 8-Nitrotoluene, Wipe 7-Nitrotoluene, Wipe	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	* ** *	5.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	5.0 2.0 2.0 2.0 2.0 4.0 4.0 4.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000	ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe	64020 64020 64020 64020 64020 64020 64020 64020 64020 64020 64020 64020	09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02	02 1758 02 1758 02 1758 02 1758 02 1758 02 1758 02 1758 02 1758 02 1758 02 1758	san san san san san san
60108	Metals Analysis (ICAP Trace) Aluminum, Wipe Antimony, Wipe Arsenic, Wipe	2.6 ND 0.0023	<b></b>	0.020 0.0020 0.0010	0.020 0.0020 0.0010	\$ \$ \$-	mg/Wipe mg/Wipe mg/Wipe	63524 63524 63524	09/21/02 09/21/02 09/21/02	02 0738 02 0738 02 0738	tds tds



	Job Number: 211976	ABORATORY	<b>⊢</b>	ST RESU	LTS		Date:0	Date:09/27/2002		
CUSTOMER: SCS	CUSTOMER: SCS Engineers, Inc.	PROJECT:	- VSD	SLOP			ATTN:	David Bre	Вгемег	
Customer Date San Time San	Customer Sample ID: 105CCSWS1 Date Sampled: 09/11/2002 Time Sampled: 13:45 Sample Matrix: Wipe		Lai Dai Tìr	Laboratory Sample ID: Date Received Time Received	1D: 211976-6 : 09/12/2002 : 09:10					
TEST METHOD	Barium, Wipe Barium, Wipe Barium, Wipe Cadmium, Wipe Calcium, Wipe Chromium, Wipe Cobalt, Wipe Copper, Wipe Iron, Wipe Lead, Wipe Nagnesium, Wipe Nickel, Wipe Nickel, Wipe Selenium, Wipe Selenium, Wipe Solum, Wipe Solum, Wipe Solum, Wipe Solum, Wipe Solum, Wipe Solum, Wipe Thallium, Wipe Thallium, Wipe Thallium, Wipe	SAMPLE RESULT  0.047  0.067  38  0.0016  0.036  4.3  0.057  1.4  0.057  1.4  0.0048  5.4  0.0008  ND  4.3  0.0008  ND  4.3  0.0064  0.0064  0.0064	U U	MDL 0.0010 0.0004 0.0002 0.0010 0.0010 0.0010 0.0010 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	RL 0.0010 0.0004 0.0002 0.0010 0.0010 0.0010 0.0010 0.0010 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	NO FEEFFE	mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe	63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524	09/21/02 07 09/21/02 07	MAC TECH  0738 tds  0738 tds

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	Job Number: 211976	ABORATOR	E S	RESUL	<b>S</b>		Date:0	Date: 09/27/2002		
CUSTOMER: SCS	Engineers, inc.	PROJECT	: GSA - SL	асть			ATTN:	David Bre	Brewer	
Custome Date Sar Time Sar Sample P	Customer Sample ID: 105CCSWS2 Date Sampled: 09/11/2002 Time Sampled: 13:55 Sample Matrix: Wipe		Labor Date I Time I	atory Sample Received	ID: 211976-7 : 09/12/2002 : 09:10					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	a FLAGS	MDE	*	DILUTION	UNITS	ВАТСН	DT DATE/TIME	TECH
8082	PCB Analysis Aroclor 1016, Wipe Aroclor 1221, Wipe Aroclor 1232, Wipe Aroclor 1242, Wipe Aroclor 1254, Wipe Aroclor 1256, Wipe	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ככככככ	0.50	0.50	1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe	63712 63712 63712 63712 63712 63712 63712	09/21/02 1457 09/21/02 1457 09/21/02 1457 09/21/02 1457 09/21/02 1457 09/21/02 1457	77 mgk 77 mgk 77 mgk 77 mgk 77 mgk 77 mgk
8330	Explosives by 8330 (HPLC) HMX, Wipe RDX, Wipe 1,3,5-Trinitrobenzene, Wipe 1,3-Dinitrobenzene, Wipe 1,4,6-TNI, Wipe 2,4,6-TNI, Wipe 2,4-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 4-Amino-2,6-Dinitrotoluene, Wipe 2-Nitrotoluene, Wipe 4-Nitrotoluene, Wipe 5-Nitrotoluene, Wipe 6-Nitrotoluene, Wipe 7-Nitrotoluene, Wipe 7-Nitrotoluene, Wipe 7-Nitrotoluene, Wipe 7-Nitrotoluene, Wipe	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	* ** *	5.0 2.0 2.0 2.0 2.0 4.0 0.4 0.4 0.4	2.0.0.0.0.4.4.4.0.4.0.0.0.0.0.0.0.0.0.0.	2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000	ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe	64020 64020 64020 64020 64020 64020 64020 64020 64020 64020 64020 64020	09/26/02 1903 09/26/02 1903	3 San 3 San
60108	Metals Analysis (ICAP Trace) Aluminum, Wipe Antimony, Wipe Arsenic, Wipe	0.26 ND ND	c.	0.020 0.0020 0.0010	0.020 0.0020 0.0010	£ ₹	mg/Wipe mg/Wipe mg/Wipe	63524 63524 63524	09/21/02 0745 09/21/02 0745 09/21/02 0745	555 tds tds
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	Job Number: 211976	ABORATORY	H	S T R E S C L	S T .	AND THE PERSON OF STREET, THE PERSON OF STRE	Date:0	Date:09/27/2002		
CUSTOMER: SCS	Engineers, Inc.	PROJECT:	GSA_	SL0P			ATTN:	David Brewer	Jeme	
Custome Date Sa Time Sa Sample 1	Customer Sample ID: 105BCSWS1 Date Sampled: 09/11/2002 Time Sampled: 14:15 Sample Matrix: Wipe		Labor Date Time	Laboratory Sample 1D: Date Received Time Received	10: 211976-8 : 09/12/2002 : 09:10					
TEST METHOD	PARAMETER/TEST_DESCRIPTION	SAMPLE RESULT	Q FLAGS	MOL	*	DILUTION	UNITS	ватсн	DT DATE/TIME	TECH
8082	PCB Analysis Aroclor 1016, Wipe Aroclor 1221, Wipe Aroclor 1232, Wipe Aroclor 1242, Wipe Aroclor 1254, Wipe Aroclor 1260, Wipe	2222222	22222	0.50 0.50 0.50 0.50 0.50 0.50	0.50 0.50 0.50 0.50 0.50 0.50	1.00000 1.00000 1.00000 1.00000	ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe	63712 63712 63712 63712 63712 63712	09/21/02 16 09/21/02 16 09/21/02 16 09/21/02 16 09/21/02 16 09/21/02 16	1602 mgk 1602 mgk 1602 mgk 1602 mgk 1602 mgk 1602 mgk
8330	Explosives by 8330 (HPLC) HMX, Wipe RDX, Wipe 1,3,5-Trinitrobenzene, Wipe 1,3-Dinitrobenzene, Wipe 2,4,6-TNI, Wipe 2,4-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 2,0-Dinitrotoluene, Wipe 4-Amino-2,6-Dinitrotoluene, Wipe 2-Nitrotoluene, Wipe 4-Nitrotoluene, Wipe 3-Nitrotoluene, Wipe	R R R R R R R R R R R R R R R R R R R	* ** *	0.000000000000000000000000000000000000	0.000000000000000000000000000000000000	2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000	ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe ug/wipe	64020 64020 64020 64020 64020 64020 64020 64020 64020 64020 64020	09/26/02 20 09/26/02 20	2008 san 2008 san
60108	Metals Analysis (ICAP Trace) Aluminum, Wipe Antimony, Wipe Arsenic, Wipe	0.31 ND ND	<b>D</b> D	0.020 0.0020 0.0010	0.020 0.0020 0.0010	****	mg/Wipe mg/Wipe mg/Wipe	63524 63524 63524	09/21/02 07 09/21/02 07 09/21/02 07	0751 tds 0751 tds 0751 tds
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	Job Number: 211976	ABORATORY	TEST	RESULI	S		Date:09	Date:09/27/2002	Total Control of the	-	
CUSTOMER: SCS Engineers,	Engineers, Inc.	PROJECT:	GSA - SLOP				ATTN:	David Bre	Brewer		
Custome Date Sa Time Sa Sample P	Customer Sample ID: 105BCSWS1 Date Sampled: 09/11/2002 Time Sampled: 14:15 Sample Matrix: Wipe		Laboratc Date Rec Time Rec	Laboratory Sample ID: Date Received: Time Received	): 211976-8 .: 09/12/2002 .: 09:10						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	0 FLAGS	TOW	<b>7</b>	DILUTION	UNITS	ВАТСИ	DT DATE/TIME		TECH
	Barium, Wipe Beryllium, Wipe Cadmium, Wipe Calcium, Wipe Chromium, Wipe Chomlium, Wipe Copper, Wipe Lead, Wipe Magnesium, Wipe Magnesium, Wipe Marganese, Wipe Noickel, Wipe Noickel, Wipe Selenium, Wipe Selenium, Wipe Sodium, Wipe Sodium, Wipe Yanadium, Wipe Yanadium, Wipe Yanadium, Wipe	ND 0.0054 14 0.0058 ND 0.0039 0.35 0.031 0.035 ND 0.008 ND 1.3 ND 0.0007 0.15	ם כ כ כ	0.0010 0.0004 0.0002 0.010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0010 0.0002 0.0002 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	¢~ ←~ ←~ ←~ ←~ ←~ ←~ ←~ ←~ ←~ ←~ ←~ ←~ ←~	mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe mg/Wipe	63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524 63524	09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02 09/21/02	0.751 0.751 0.751 0.751 0.751 0.751 0.751 0.751 0.751 0.751 0.751 0.751 0.751	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
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	Job Number: 211976	ABORATORY	ш ⊢	ST RESUL	S 1		Date:0	Date: 09/27/2002		
CUSTOMER: SCS	Engineers, Inc.	PROJECT:	es#	SLOP			ATTN:	David Bre	Вгемег	
Customee Date San Time San Sample M	Custoner Sample ID: 105BCSWS2 Date Sampled: 09/11/2002 Time Sampled: 14:30 Sample Matrix: Wipe		Lak Dat Tin	Laboratory Sample ID: Date Received Time Received	ID: 211976-9 : 09/12/2002 : 09:10					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	Jaw	RL	DILUTION	UNITS	BATCH D	DT DATE/TIME	TECH
8082		Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	* ** *	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	1.00000 1.00000 1.00000 1.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000	ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe	63712 63712 63712 63712 63712 63712 64020 64020 64020 64020 64020 64020 64020 64020	09/21/02 09/21/02 09/21/02 09/21/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02 09/26/02	1635 mgk 1635 mgk 163
6010B		0.21		4.0 10 4.0 0.020 0.0020	4.0 10 4.0 0.020 0.0020 0.0010	2.00000 2.00000 2.00000	ug/wipe ug/wipe ug/wipe mg/wipe mg/wipe	64020 64020 64020 64020 63524 63524 63524		



CUSTOWER: SCS Engineers, Inc.  Customer Sample ID: 105BCSUS2 Date Sampled: 14:30  Time Sampled: 14:30  Sample Matrix: Wipe  Earlum, Wipe Cadmium, Wipe Cadmium, Wipe Cadmium, Wipe Cadmium, Wipe Cadmium, Wipe Cadmium, Wipe Calcium, Wipe Cadmium, Wipe Copper, Wipe Lead, Wipe Lead, Wipe Lead, Wipe		CSSA SLOP Labor Date   Time   U	SLOP Laboratory Sample ID: Date Received Time Received  S. MOL 0.0010 0.0002 0.010 0.0005 0.0005 0.0005 0.0050 0.0050 0.0050 0.0050	D: 211976-9 .: 09/12/2002 .: 09:10 .: 09:10 0.0010 0.0002 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	DILUTION	ATTN:  UNITS  WG/Wipe mg/Wipe	ATTN: David Brewer ATTN: BATCH DT Wipe 63524 0 0	DATE/T1 9/21/02 9/21/02 9/21/02 9/21/02 9/21/02 9/21/02 9/21/02	1 (2 (2))
Manganese, Wipe Nickel, Wipe Potassium, Wipe Selenium, Wipe Siver, Wipe Sodium, Wipe Thallium, Wipe Vanadium, Wipe Zinc, Wipe	ND 0.014 ND 0.52 ND 1.4 ND 0.074	2 2 2 2	0.0010 0.0010 0.0005 0.0005 0.0010 0.0010 0.0005	0.0010 0.0010 0.0005 0.0005 0.0010 0.0050		mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe mg/wipe	63524 63524 63524 63524 63524 63524 63524 63524	09/21/02 0757 09/21/02 0757 09/21/02 0757 09/21/02 0757 09/21/02 0757 09/21/02 0757 09/21/02 0757	t t t t t t t t t t t t t t t t t t t



	Job Number: 211976	ABORATORY	Н Н	ST RESUL	1 S		Date:0	Date:09/27/2002		
CUSTOMER: SCS	Engineers, Inc.	PROJECT:	GSA -	SLOP			ATTN:	David Bre	Brewer	
Custome Date Sa Time Sa Sample	Customer Sample ID: 105DCSWS1 Date Sampled: 09/11/2002 Time Sampled: 17:00 Sample Matrix: Wipe		Labor Date Time	Laboratory Sample ID: Date Received Time Received	1D: 211976-10 09/12/2002 09:10					
TEST METHOD	PARAMETER/TEST_DESCRIPTION	SAMPLE RESULT	Q FLAGS	<b>J</b> GW	R	DILUTION	UNITS	BATCH D	DT DATE/TIME	TECH
8082	PCB Analysis Aroclor 1016, Wipe Aroclor 1221, Wipe Aroclor 1242, Wipe Aroclor 1248, Wipe Aroclor 1248, Wipe Aroclor 1254, Wipe	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22222	0.50 0.50 0.50 0.50 0.50 0.50	0.50 0.50 0.50 0.50 0.50 0.50	0.0000000000000000000000000000000000000	ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe	63712 63712 63712 63712 63712 63712	09/21/02 1708 09/21/02 1708 09/21/02 1708 09/21/02 1708 09/21/02 1708 09/21/02 1708	1708 mgk 1708 mgk 1708 mgk 1708 mgk 1708 mgk 1708 mgk
8330	Explosives by 8330 (HPLC) HMX, Wipe RDX, Wipe RDX, Wipe 1,3,5-Trinitrobenzene, Wipe 1,3-Dinitrobenzene, Wipe 2,4,6-TNI, Wipe Tetryl, Wipe 2,4-Dinitrotoluene, Wipe 2,4-Dinitrotoluene, Wipe 2,4-Dinitrotoluene, Wipe 2,6-Dinitrotoluene, Wipe 4-Amino-2,6-Dinitrotoluene, Wipe 4-Nitrotoluene, Wipe 4-Nitrotoluene, Wipe 3-Nitrotoluene, Wipe	<u> </u>	* ** *	2.2.2.2.2.4.4.4.0 0.0.0.0.0.0.4.4.4.0 0.0.0.0.0.0	5.0 0.0 0.0 0.0 0.0 0.0 0.4 0.4 0.4 0.4	2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000	ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe ug/Wipe	64020 64020 64020 64020 64020 64020 64020 64020 64020 64020	09/26/02 2251 09/26/02 2251	san san san san san san san san
6010B	Metals Analysis (ICAP Trace) Aluminum, Wipe Antimony, Wipe Arsenic, Wipe	0.63 ND ND	<b>D</b> D	0.020 0.0020 0.0010	0.020 0.0020 0.0010	dina dina fam	mg/Wipe mg/Wipe mg/Wipe	63524 63524 63524	09/21/02 0803 09/21/02 0803 09/21/02 0803	tds tds tds

\* In Description = Dry Wgt.



TORY TEST RESULTS Date:09/27/2002	PROJECT: GSA - SLOP Laboratory Sample ID: 211976-10 Date Received: 09/12/2002 Time Received: 09:10	RESULT   G FLAGS   MOL
L A B O R A Job Number: 211976	CUSTOMER: SCS Engineers, Inc.  Customer Sample ID: 105DCSWS1 Date Sampled: 09/11/2002 Time Sampled: 17:00 Sample Matrix: Wipe	Barium, Wipe Barium, Wipe Cadmium, Wipe Cadcium, Wipe Chromium, Wipe Chomium, Wipe Choper, Wipe Iron, Wipe Lead, Wipe Magnesium, Wipe Nickel, Wipe Nickel, Wipe Nickel, Wipe Nickel, Wipe Nickel, Wipe Nickel, Wipe Satenium, Wipe Satenium, Wipe Satenium, Wipe Situn, Wipe Sodium, Wipe Thallium, Wipe Thallium, Wipe Thallium, Wipe Thallium, Wipe Thallium, Wipe Tinc, Wipe

-	BASE SER	
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A	HACHINGRIGA	Baseline Andrews

MITS BATCH DT DATE/T/2002  MITS BATCH DT DATE/T/102  Wipe 63772 09/21/02  Wipe 63772 09/21/02  Wipe 64020 09/26/02  Wipe 64020 09/26/02
---



Job Number CUSTOMER: SCS Engineers,	Job Number: 211976 Engineers, Inc.	A B O R A T O R )	Y TEST ** GSA - SLOP	T RESUL	S		Date:0	Date:09/27/2002 ATIN: David Brewer	<b>€</b>	
Customer Sample I Date Sampled Time Sampled Sample Matrix	Customer Sample ID: 105DCSWS2 Date Sampled: 09/11/2002 Time Sampled: 17:10 Sample Matrix: Wipe		Labo Date Time	Laboratory Sample ID: Date Received: Time Received:	1D: 211976-11 : 09/12/2002 : 09:10					
TEST METHOD	Barium, Wipe Barium, Wipe Beryllium, Wipe Cadmium, Wipe Cadmium, Wipe Cadmium, Wipe Cobalt, Wipe Copper, Wipe Iron, Wipe Iron, Wipe Manganese, Wipe Manganese, Wipe Notesium, Wipe Selenium, Wipe Sodium, Wipe	SAMPLE RESULT  0.017  0.006 21 0.006 21 0.006 0.010 4.4 38 0.09 0.09 0.092 0.052 0.0028 1.9 0.0007 ND 2.2 ND 0.0068 0.112	O O O	MDL 0.0010 0.0004 0.0002 0.0010 0.0010 0.0010 0.0010 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	RL 0.0010 0.0002 0.0010 0.0010 0.0010 0.0010 0.0010 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	200 LUTTON	UNITS  mg/Wipe	8ATCH D 63524	D7 DATE/TIME  09/21/02 0809  09/21/02 0809  09/21/02 0809  09/21/02 0809  09/21/02 0809  09/21/02 0809  09/21/02 0809  09/21/02 0809  09/21/02 0809  09/21/02 0809  09/21/02 0809  09/21/02 0809  09/21/02 0809  09/21/02 0809  09/21/02 0809  09/21/02 0809  09/21/02 0809	ME TECH 0809 tds 0809 tds



LABORATORY CHRONICLE

Job Number: 211976

Date: 09/27/2002

CUSTOMER: SCS Eng	jineers, Inc.	PROJECT: GSA -	SLOP		A	TTN: David Br	ewer	
ab ID: 211976-1	Client ID: 105ECSWS1	Dota Do	cvd: 09/	12/2002	Cample	Date: 09/11/20	ากว	
METHOD	DESCRIPTION							DILLITTO
				PREP BT	#(5)	DATE/TIME AN		DILUTIO
8330	8330 Extraction (Explosives)	1	63997			09/23/2002	2100	
3050B	Acid Digestion: Solids (ICAP)	1	63266			09/19/2002	1900	
EDD	Electronic Data Deliverable	1						
8330	Explosives by 8330 (HPLC)	1	64020	63997		09/26/2002	1200	2,0000
3550B	Extraction Ultrasonic (PCBs)	1	62953			09/17/2002	1400	
6010B	Metals Analysis (ICAP Trace)	1	63524	63266		09/21/2002	0642	
6010B	Metals Analysis (ICAP Trace)	1	63632	63266		09/24/2002	0137	
8082	PCB Analysis	1	63712	62953		09/21/2002	1141	1.0000
ab ID: 211976-2	Client ID: 105ECSWS2	Date Re	cvd: 09/	12/2002	Sample i	Date: 09/11/20	002	
METHOD	DESCRIPTION	RUN#		PREP BT		DATE/TIME AN		DILUTIO
8330	8330 Extraction (Explosives)	1	63997	, ,,,,,,	( )	09/23/2002	2100	0140.1
3050B	Acid Digestion: Solids (ICAP)	i	63266			09/19/2002	1900	
8330	Explosives by 8330 (HPLC)	1	64020	63997		09/26/2002	1305	2.0000
3550B	Extraction Ultrasonic (PCBs)	1	62953	03771			1400	2.0000
		1		170//		09/17/2002		
6010B	Metals Analysis (ICAP Trace)		63524	63266		09/21/2002	0654	
6010B	Metals Analysis (ICAP Trace)	1	63632	63266		09/24/2002	0150	
8082	PCB Analysis	1	63712	62953		09/21/2002	1214	1.0000
ab ID: 211976-3	Client ID: 105FCSWS1	Date Re	cvd: 09/			Date: 09/11/20	002	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME AN	NALYZED	DILUTI
8330	8330 Extraction (Explosives)	1	63997			09/23/2002	2100	
3050B	Acid Digestion: Solids (ICAP)	1	63266			09/19/2002	1900	
8330	Explosives by 8330 (HPLC)	1	64020	63997		09/26/2002	1410	2.0000
3550B	Extraction Ultrasonic (PCBs)	1	62953			09/17/2002	1400	
6010B	Metals Analysis (ICAP Trace)	1	63524	63266		09/21/2002	0700	
6010B	Metals Analysis (ICAP Trace)	i	63632	63266		09/24/2002	0156	
6010B	Metals Analysis (ICAP Trace)	i	63632	63266		09/24/2002	0202	5
8082	PCB Analysis (ICAP (Mace)	1	63712	62953		09/24/2002	1247	1.0000
-L 10 - 04407/ /	oliant in 105socios	D=#= D=		12 /2002	C !!	n-+ 00 (44 (0)	202	
ab ID: 211976-4	Client ID: 105FCSWS2		cvd: 09/			Date: 09/11/20		
METHOD	DESCRIPTION	RUN#		PREP BT	#(S)	DATE/TIME A		DILUTI
8330	8330 Extraction (Explosives)	1	63997			09/23/2002	2100	
3050B	Acid Digestion: Solids (ICAP)	1	63266			09/19/2002	1900	
8330	Explosives by 8330 (HPLC)	1	64020	63997		09/26/2002	1548	2.0000
3550B	Extraction Ultrasonic (PCBs)	1	62953			09/17/2002	1400	
6010B	Metals Analysis (ICAP Trace)	1	63524	63266		09/21/2002	0707	
6010B	Metals Analysis (ICAP Trace)	1	63632	63266		09/24/2002	0230	
8082	PCB Analysis	1	63712	62953		09/21/2002	1319	1.0000
1 15 2440774 5	01	D	1 00	42 (2002				
ab ID: 211976-5	Client ID: 105EFTUNNELWS1		cvd: 09/			Date: 09/11/20		W
METHOD	DESCRIPTION			PREP BT	#(S)	DATE/TIME A		DILUTI
8330	8330 Extraction (Explosives)	1	63997			09/23/2002	2100	
3050B	Acid Digestion: Solids (ICAP)	1	63266			09/19/2002	1900	
8330	Explosives by 8330 (HPLC)	1	64020	63997		09/26/2002	1653	2.0000
3550B	Extraction Ultrasonic (PCBs)	1	62953			09/17/2002	1400	
6010B	Metals Analysis (ICAP Trace)	1	63524	63266		09/21/2002	0732	
6010B	Metals Analysis (ICAP Trace)	1	63632	63266		09/24/2002	0236	
8082	PCB Analysis	i	63712	62953		09/21/2002	1352	1.0000
ah ID. 244074 4	Client to, 105ccc1c1	Data D-	avda 00 t	12/2002	Commis	00/44/0	າດວ	
ab ID: 211976-6	Client ID: 105CCSWS1		cvd: 09/	•	,	Date: 09/11/20		To \$ 4 4 4 4000
MATTER S	DESCRIPTION	RUN#	BA∓CH#	PREP BT	#(S)	DATE/TIME A	NALYZED	DILUTI
METHOD	0770							
8330	8330 Extraction (Explosives)	1	63997			09/23/2002	2100	
	8330 Extraction (Explosives) Acid Digestion: Solids (ICAP) Explosives by 8330 (HPLC)	1 1	63997 63266			09/23/2002 09/19/2002	2100 1900	



LABORATORY CHRONICLE Job Number: 211976 Date: 09/27/2002 CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN: David Brewer Lab ID: 211976-6 Client ID: 105CCSWS1 Date Recvd: 09/12/2002 Sample Date: 09/11/2002 DESCRIPTION RUN# BATCH# PREP BT #(S) METHOD DATE/TIME ANALYZED DILUTION 3550B Extraction Ultrasonic (PCBs) 62953 09/17/2002 1 1400 6010B Metals Analysis (ICAP Trace) 63524 63266 09/21/2002 0738 1 6010B Metals Analysis (ICAP Trace) 1 63632 63266 09/24/2002 0242 8082 PCB Analysis 1 63712 62953 09/21/2002 1424 10.0000 Lab ID: 211976-7 Client ID: 105CCSWS2 Date Recvd: 09/12/2002 Sample Date: 09/11/2002 DATE/TIME ANALYZED METHOD DESCRIPTION RUN# BATCH# PREP BT #(S) DILUTION 8330 8330 Extraction (Explosives) 1 63997 09/23/2002 2100 3050R Acid Digestion: Solids (ICAP) 63266 1 09/19/2002 1900 8330 Explosives by 8330 (HPLC) 64020 63997 1 09/26/2002 1903 2.00000 3550B Extraction Ultrasonic (PCBs) 62953 09/17/2002 1 1400 6010B Metals Analysis (ICAP Trace) 1 63524 63266 09/21/2002 0745 6010B Metals Analysis (ICAP Trace) 1 63632 63266 09/24/2002 0248 8082 PCB Analysis 62953 1 63712 09/21/2002 1457 1.00000 Lab ID: 211976-8 Date Recvd: 09/12/2002 Sample Date: 09/11/2002 Client ID: 105BCSWS1 DESCRIPTION METHOD RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED DILUTION 8330 8330 Extraction (Explosives) 1 63997 09/23/2002 2100 3050R Acid Digestion: Solids (ICAP) 1 63266 09/19/2002 1900 8330 Explosives by 8330 (HPLC) 64020 63997 09/26/2002 2008 2.00000 Extraction Ultrasonic (PCBs) 3550B 62953 09/17/2002 1400 1 6010B Metals Analysis (ICAP Trace) 63524 63266 09/21/2002 0751 6010B Metals Analysis (ICAP Trace) 1 63632 63266 09/24/2002 0255 8082 PCB Analysis 1 63712 62953 09/21/2002 1602 1.00000 Lab ID: 211976-9 Client ID: 105BCSWS2 Date Recvd: 09/12/2002 Sample Date: 09/11/2002 DESCRIPTION RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED METHOD DILUTION 8330 8330 Extraction (Explosives) 63997 1 09/23/2002 2100 3050B Acid Digestion: Solids (ICAP) 1 63266 09/19/2002 1900 Explosives by 8330 (HPLC) 8330 64020 63997 09/26/2002 2.00000 1 2146 Extraction Ultrasonic (PCBs) 62953 3550B 1 09/17/2002 1400 6010B Metals Analysis (ICAP Trace) 63524 63266 09/21/2002 0757 6010B Metals Analysis (ICAP Trace) 63266 09/24/2002 1 63632 0301 8082 PCB Analysis 63712 62953 09/21/2002 1.00000 1635 Lab ID: 211976-10 Client ID: 105DCSWS1 Date Recvd: 09/12/2002 Sample Date: 09/11/2002 METHOD DESCRIPTION RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED DILUTION 8330 Extraction (Explosives) 8330 63997 09/23/2002 1 2100 3050B Acid Digestion: Solids (ICAP) 63266 09/19/2002 1900 09/26/2002 Explosives by 8330 (HPLC) 63997 8330 1 64020 2251 2,00000 3550B Extraction Ultrasonic (PCBs) 62953 09/17/2002 1400 6010B Metals Analysis (ICAP Trace) 63524 63266 09/21/2002 0803 1 Metals Analysis (ICAP Trace) 6010B 1 63632 63266 09/24/2002 0307 8082 PCB Analysis 63712 62953 09/21/2002 1708 1.00000

1

Date Recvd: 09/12/2002 Sample Date: 09/11/2002

DATE/TIME ANALYZED

2100

1900

2356

1400

0809

0313

0320

1740

09/23/2002

09/19/2002

09/26/2002

09/17/2002

09/21/2002

09/24/2002

09/24/2002

09/21/2002

DILUTION

2.00000

1.00000

20

RUN# BATCH# PREP BT #(S)

63997

63266

63266

63266

62953

63997

63266

64020

62953

63524

63632

63632

63712

Lab ID: 211976-11 Client ID: 105DCSWS2

METHOD

8330

3050B

8330

3550B

6010B

6010B

6010B

8082

DESCRIPTION

PCB Analysis

8330 Extraction (Explosives)

Acid Digestion: Solids (ICAP)

Extraction Ultrasonic (PCBs)

Metals Analysis (ICAP Trace)

Metals Analysis (ICAP Trace)

Metals Analysis (ICAP Trace)

Explosives by 8330 (HPLC)



SURROGATE RECOVERIES REPORT

Job Number.: 211976

Report Date.: 09/27/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

ATTN: David Brewer

	od: PCB Analysis n(s): 63712			: 8082 : Wipe	Prep Batch: 62953 Equipment Code: INST0708
Lab ID	DT Sample ID	Date	DCB	TCX	
LCD		09/21/2002	90	91	
LCS		09/21/2002	90	93	
MB		09/21/2002	89	90	
211976- 1	105ECSWS1	09/21/2002	90	99	
211976- 2	105ECSWS2	09/21/2002	75	114	
211976- 3	105FC\$W\$1	09/21/2002	87	90	
211976- 4	105FCSWS2	09/21/2002	89	94	
211976- 5	105EFTUNNELWS1	09/21/2002	87	92	
211976- 6	105ccsws1	09/21/2002	99	101	
211976- 7	105ccsws2	09/21/2002	86	92	
211976- 8	105BCSWS1	09/21/2002	88	95	
211976- 9	105BC\$W\$2	09/21/2002	86	93	
211976- 10	105DCSWS1	09/21/2002	88	92	
211976~ 11	105DCSWS2	09/21/2002	90	96	
Test T	est Description	Limits	•		
DCB D	ecachlorobiphenyl (surr)	24 - 154			
TCX T	etrachloro-m-xylene (surr)	25 - 138			



SURROGATE RECOVERIES REPORT

Job Number.: 211976

Report Date.: 09/27/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

ATTN: David Brewer

	Method: Explosives by 8330 (HPLC) Batch(s): 64020		•	od Code: 8330 Matrix: Wipe	Prep Batch: 63997 Equipment Code: INST43
Lab ID	DT	Sample ID	Date	12DNBZ	
LCD			09/26/2002	99	
LCS			09/26/2002	97	
ΜB			09/26/2002	96	
211976- 1	1	105ECSWS1	09/26/2002	87	
211976- 2	2	105ECSWS2	09/26/2002	89	
211976- 3	3	105FCSWS1	09/26/2002	87	
211976- 4	·	105FCSWS2	09/26/2002	88	
211976- 5	5	105EFTUNNELWS1	09/26/2002	89	•
211976- 6	5	105ccsws1	09/26/2002	158*	
211976- 7	7	105ccsws2	09/26/2002	106	•
11976- 8	3	105BCSWS1	09/26/2002	90	
11976- 9	7	105BCSWS2	09/26/2002	81	
11976- 10	)	105DCSWS1	09/26/2002	86	
211976- 11	l	105DCSWS2	09/26/2002	85	
Test	Test Des	cription	Limits	•	
12DNBZ	1,2-Dini	trobenzene (surr)	60 - 140		



QUALITY CONTROL RESULTS

Job Number : 211976

Report Date.: 09/27/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

ATTN: David Brewer

QC Type Description

Method Description.: PCB Analysis

Reag. Code

Dilution Factor

Test Method.....: 8082

Equipment Code...: INST0708

·····

Lab ID

Analyst...: mgk

Batch..... 63712

Date

Time

LCD	Laboratory Control Samp	le Duplicat	e 0021	WLPCBA	62953 -003			09/21/2002 1109
	Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc	. * Lîmits F
Aroclor	1016, Wipe	ug/Wipe	4.731500	4.656000	5.001000	0.500000 U	95 2	% 66-104 R 20
Aroclor	1260, Wipe	ug/Wipe	4.606200	4.562100	5.010000	0.500000 U	92 1	% 68-108 R 20



	Job Number.: 211976	QUALITY	CONT	ROLR	/ -	Report Date.: 09/	27/2002	
CUSTOMER: SO	OS Engineers, Inc.	PROJEC <sup>*</sup>	Γ: GSA -	SLOP		ATTN:		
QC Type	Description	1	Reag.	Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 8082 Equipment Code...: INST0708 Analyst...: mgk
Method Description: PCB Analysis Batch...........: 63712

LCS Laboratory Control San	nple	0021	WLPCBA	62953 -002		09	/21/2	002 1036
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits F
Aroclor 1016, Wipe Aroclor 1260, Wipe	ug/Wipe ug/Wipe	4.656000 4.562100		5.001000 5.010000	0.500000 U 0.500000 U		%	66-104 68-108



QUALITY CONTROL RESULTS

Job Number.: 211976

Report Date.: 09/27/2002

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN:

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

Test Method.....: 8082 Equipment Code...: INST0708 Analyst...: mgk

Method Description.: PCB Analysis Batch..... 63712

MB Method Blank				62953 -001			OS	/21/	/2002 100	34
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig.	Value	QC Calc.	*	Limits	F
Aroclor 1016, Wipe	ug/Wipe	0.500000 บ	***************************************							
Aroclor 1221, Wipe	ug/Wipe	0.500000 น								
Aroclor 1232, Wipe	ug/Wipe	0.500000 U								
Aroclor 1242, Wipe	ug/Wipe	0.500000 U								
Aroclor 1248, Wipe	ug/Wipe	0.500000 U								
Aroclor 1254, Wipe	ug/Wipe	0.500000 U								
Aroclor 1260, Wipe	ug/Wipe	0.500000 U								



Analyst...: san

# STL Chicago

QUALITY CONTROL RESULTS

Job Number.: 211976

Report Date.: 09/27/2002

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN:

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

Test Method.....: 8330 Equipment Code...: INST43

Method Description.: Explosives by 8330 (HPLC) Batch...... 64020

LCD Laboratory Control Samp	ole Duplicate	9 002HP	L833A (	63997 -003		09/26/2	002 1128	3
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value Q	C Calc. *	Limits	— F
HMX, Wipe	ug/Wipe	10.522500	10.400000	10.000000	2.500000 U 10		83-130	_
RDX, Wipe	ug/Wipe	10.586000	10.601000	10.000000	1.000000 U 10 0	R 2 06 % R 2	83-117	
1,3,5-Trinitrobenzene, Wipe	ug/Wipe	9.055000	5.297500	10.000000	1.000000 U 9'	1 %	83-115	*
1,3-Dinitrobenzene, Wipe	ug/Wipe	10.368500	10.174500	10.000000	1.000000 U 10 2		84-115	•
Nitrobenzene, Wipe	ug/Wipe	10.308500	10.131000	10.000000	1.0000000 U 10		76-109	
2,4,6-TNT, Wipe	ug/Wipe	6.337500	4.376000	10,000000	1.000000 U 63	3 %	81-116	*
Tetryl, Wipe	ug/Wipe	2.000000 U	2.000000 U	20.000000	2.000000 U 1	%	77-122	
2,4-Dinitrotoluene, Wipe	ug/Wipe	9.983500	9.969500	10.000000	1.000000 U 10	00 R 2 00 % R 2	79-126	*
2,6-Dinitrotoluene, Wipe	ug/Wipe	21.134500	21.059000	20.000000	2.000000 u 10	06 %	79-120	
2-Amino-4,6-Dinitrotoluene, Wipe	ug/Wipe	21.004500	21.139500	20.000000	2.000000 U 10	R 2 05 % R 2	84-114	
4-Amino-2,6-Dinitrotoluene, Wipe	ug/Wipe	33.620500	31.460000	20.000000	2.000000 U 1	68 %	84-117	*
2-Nitrotoluene, Wipe	ug/Wipe	20.936000	19.934000	20.000000	2.000000 U 10 5		74-111	
4-Nitrotoluene, Wipe	ug/Wipe	20.354000	19.623500	20.000000	5.000000 U 10	02 %	75~113	
3-Nitrotoluene, Wipe	ug/Wipe	20.894500	20.496500	20.000000	2.000000 U 10 2	R 2 04 % R 2	75-112	



QUALITY CONTROL RESULTS

Job Number.: 211976

Report Date.: 09/27/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

ATTN:

QC Type

Description Reag. Code Dilution Factor

Date Time

Test Method.....: 8330

Equipment Code...: INST43

Lab ID

Analyst...: san

Method Description.: Explosives by 8330 (HPLC)

Batch..... 64020

LCS Laboratory Control Sam	ple	002#	PL833A	63997 -002	C	9/26/	2002 105	5
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC Calc.	*	Limits	F
HMX, Wipe	ug/Wipe	10.400000		10.000000	2,500000 U 104	— - <sub>%</sub> -	83-130	
RDX, Wipe	ug/Wipe	10.601000		10.000000	1.000000 U 106	%	83-117	
1,3,5-Trinitrobenzene, Wipe	ug/Wipe	5.297500		10.000000	1.000000 U 53	%	83-115	*
1,3-Dinitrobenzene, Wipe	ug/Wipe	10.174500		10.000000	1.000000 U 102	%	84-115	
Nitrobenzene, Wipe	ug/Wipe	10.131000		10.000000	1.000000 U 101	%	76-109	
2,4,6-TNT, Wipe	ug/Wipe	4.376000		10.000000	1.000000 U 44	%	81-116	*
Tetryl, Wipe	ug/Wipe	2.000000 U		20.000000	2.000000 U 0	%	77-122	
2,4-Dinitrotoluene, Wipe	ug/Wipe	9.969500		10.000000	1.000000 U 100	%	79-126	
2,6-Dinitrotoluene, Wipe	ug/Wipe	21.059000		20.000000	2.000000 U 105	%	79-120	
2-Amino-4,6-Dinitrotoluene, Wipe	ug/Wipe	21.139500		20.000000	2.000000 U 106	%	84-114	
4-Amino-2,6-Dinitrotoluene, Wipe	ug/Wipe	31.460000		20.000000	2.000000 U 157	%	84~117	*
2-Nitrotoluene, Wipe	ug/Wipe	19.934000		20.000000	2.000000 U 100	%	74-111	
4-Nitrotoluene, Wipe	ug/Wipe	19.623500		20.000000	5.000000 U 98	%	75-113	
3-Nitrotoluene, Wipe	ug/Wipe	20.496500		20.000000	2.000000 U 102	%	75-112	



QUALITY CONTROL RESULTS

Reag. Code

Job Number.: 211976

Report Date .: 09/27/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

ATTN:

Description

Dilution Factor

Date

Time

Test Method.....: 8330

2-Nitrotoluene, Wipe 4-Nitrotoluene, Wipe 3-Nitrotoluene, Wipe

QC Type

Method Description.: Explosives by 8330 (HPLC)

ug/Wipe

ug/Wipe

ug/Wipe

Equipment Code...: INST43 Batch..... 64020

Lab ID

Analyst...: san

MB Method Blank				63997 -001		09/	26/2002 1023
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits F
HMX, Wipe	ug/Wipe	2.500000 U		<del> </del>			
RDX, Wipe	ug/Wipe	1.000000 U				•	
1,3,5-Trinitrobenzene, Wipe	ug/Wipe	1.000000 U					
1,3-Dinitrobenzene, Wipe	ug/Wipe	1.000000 ປ					
Nitrobenzene, Wipe	ug/Wipe	1.000000 U					
2,4,6-TNT, Wipe	ug/Wipe	1.000000 U					
Tetryl, Wipe	ug/Wipe	2.000000 U					
2,4-Dinitrotoluene, Wipe	ug/Wipe	1.000000 U					
2,6-Dinitrotoluene, Wipe	ug/Wipe	2.000000 U					
2-Amino-4,6-Dinitrotoluene, Wipe	ug/Wipe	2.000000 U					
4-Amino-2,6-Dinitrotoluene, Wipe	ug/Wipe	2.000000 U					

2.000000 U 5.000000 U

2.000000 U



QUALITY CONTROL RESULTS

Job Number.: 211976

Report Date.: 09/27/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

ATTN: David Brewer

QC Type Description

Reag. Code

Dilution Factor

.

Analyst...: tds

Date

Time

Test Method:	6010B			
Method Description.:	Metals	Analysis	(ICAP	Trace)

Equipment Code...: ICP3
Batch....: 63524

Lab ID

LCS Laboratory Control Sample		M021	SPK004	63171 -002	09	09/21/2002 0325		
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC Calc.	*	Limits	F
Aluminum, Wipe	mg/Wipe	0.18804	-	0.20000	0.02000 U 94	- %	80-120	
Antimony, Wipe	mg/Wipe	0.04362		0.05000	0.00200 U 87	%	80-120	
Arsenic, Wipe	mg/Wipe	0.00899		0.01000	0.00100 U 90	%	80-120	
Barium, Wipe	mg/Wipe	0.17847		0.20000	0.00100 U 89	%	80-120	
Beryllium, Wipe	mg/Wipe	0.00430		0.00500	0.00040 U 86	%	80-120	
Cadmium, Wipe	mg/Wipe	0.00446		0.00500	0.00020 U 89	%	80-120	
Calcium, Wipe	mg/Wipe	0.91985		1.00000	0.01000 U 92	%	80-120	
Chromium, Wipe	mg/Wipe	0.01863		0,02000	0.00100 U 93	%	80-120	
Cobalt, Wipe	mg/Wipe	0.04521		0.05000	0.00050 U 90	%	80-120	
Copper, Wipe	mg/Wipe	0.02279		0.02500	0.00100 U 91	%	80-120	
Iron, Wipe	mg/Wipe	0.09246		0.10000	0.00500 U 92	%	80-120	
Lead, Wipe	mg/Wipe	0.01007		0.01000	0.00500 U 101	%	80-120	
Magnesium, Wipe	mg/Wipe	0.91008		1.00000	0.01000 U 91	%	80-120	
Manganese, Wipe	mg/Wipe	0.04608		0.05000	0.00100 U 92	%	80-120	
Nickel, Wipe	mg/Wipe	0.04550		0.05000	0.00100 U 91	%	80-120	
Selenium, Wipe	mg/Wipe	0.00901		0.01000	0.00050 U 90	%	80-120	
Silver, Wipe	mg/Wipe	0.00440		0.00500	0.00050 U <b>88</b>	%	80-120	
Thallium, Wipe	mg/Wipe	0.00881		0.01000	0.00100 U 88	%	80-120	
Vanadium, Wipe	mg/Wipe	0.04576		0.05000	0.00050 U 92	%	80-120	
Zinc, Wipe	mg/Wipe	0.04605		0.05000	0.00276 92	%	80-120	

LCS Laboratory Control Sam	ole	M021	SPK004	63266 -002		09/21	/2002 063	56
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC C	alc. *	Limits	F
Aluminum, Wipe	mg/Wipe	0.17842		0.20000	0.02000 U 89	- %	80-120	
Antimony, Wipe	mg/Wipe	0.04271		0.05000	0.00200 U 85	%	80-120	
Arsenic, Wipe	mg/Wipe	0.00869		0.01000	0.00100 U 87	%	80-120	
Barium, Wipe	mg/Wipe	0.17370		0.20000	0.00100 U 87	%	80-120	
Beryllium, Wipe	mg/Wipe	0.00425		0.00500	0.00040 U 85	%	80-120	
Cadmium, Wipe	mg/Wipe	0.00436		0.00500	0.00020 U 87	%	80-120	
Calcium, Wipe	mg/Wipe	0.89702		1.00000	0.01000 U 90	%	80-120	
Chromium, Wipe	mg/Wipe	0.01835		0.02000	0.00100 U 92	%	80-120	
Cobalt, Wipe	mg/Wipe	0.04443		0.05000	0.00050 U 89	%	80-120	
Copper, Wipe	mg/Wipe	0.02284		0.02500	0.00100 U 91	%	80-120	
Iron, Wipe	mg/Wipe	0.08324		0.10000	0.00500 U 83	%	80-120	
Lead, Wipe	mg/Wipe	0.00944		0.01000	0.00500 U 94	%	80-120	
Magnesium, Wipe	mg/Wipe	0.88299		1.00000	0.01000 U 88	%	80-120	
Manganese, Wipe	mg/Wipe	0.04518		0.05000	0.00100 U 90	%	80-120	
Nickel, Wipe	mg/Wipe	0.04479		0.05000	0.00100 U 90	%	80-120	
Selenium, Wipe	mg/Wipe	0.00862		0.01000	0.00050 U 86	%	80-120	
Silver, Wipe	mg/Wipe	0.00430		0.00500	0.00050 U 86	%	80-120	
Thallium, Wipe	mg/Wipe	0.00851		0.01000	0.00100 U 85	%	80-120	
Vanadium, Wipe	mg/Wipe	0.04507		0.05000	0.00050 U 90	%	80~120	
Zinc, Wipe	mg/Wipe	0.04208		0.05000	0.00200 U 84	%	80-120	



Job Number.: 211976	QUA	LITY CON	ITROL R	ESULTS	Report Date	.: 09/2	7/2002	
CUSTOMER: SCS Engineers, Inc.		PROJECT: GSA	· - SLOP		ATTN:			
QC Type Descript	ion	R€	eag. Code	Lab ID	Dilution F	actor	Date	Time
Test Method: 6010B Method Description.: Metals Analysi	s (ICAP Trace		Equipment Co	de: ICP3		Analys	t: tds	
MB Method Blank		6317	71	63171 -001			09/21/2002	0318
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Cal	c. * Lim	its
Aluminum, Wipe Antimony, Wipe Arsenic, Wipe Barium, Wipe Baryllium, Wipe Cadmium, Wipe Calcium, Wipe Chromium, Wipe Chromium, Wipe Chromium, Wipe Copper, Wipe Lead, Wipe Agnesium, Wipe Magnesium, Wipe Magnesium, Wipe Mickel, Wipe Selenium, Wipe Silver, Wipe Fhallium, Wipe Vanadium, Wipe Vanadium, Wipe Vanadium, Wipe Vanadium, Wipe	mg/Wipe	0.02000 U 0.00200 U 0.00100 U 0.00100 U 0.00100 U 0.00100 U 0.00100 U 0.0050 U 0.0050 U 0.00100 U 0.0050 U 0.00100 U 0.0050 U						
MB Method Blank		6326	<sub>0</sub> 6	63266 -001			09/21/2002	0629
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Cal	c. * Lim	its
Aluminum, Wipe Antimony, Wipe Arsenic, Wipe Barium, Wipe Beryllium, Wipe Cadmium, Wipe Calcium, Wipe Chromium, Wipe Cobalt, Wipe Copper, Wipe Iron, Wipe Lead, Wipe Magnesium, Wipe Manganese, Wipe Mickel, Wipe Selenium, Wipe Silver, Wipe Thallium, Wipe Vanadium, Wipe Vanadium, Wipe Zinc, Wipe	mg/Wipe	0.02000 L 0.00200 L 0.00100 L 0.00100 L 0.00020 L 0.01000 L 0.00100 L 0.00500 L 0.00500 L 0.00100 L 0.00100 L 0.00500 L 0.00500 L 0.00500 L						



QUALITY CONTROL RESULTS

Job Number.: 211976

Report Date.: 09/27/2002

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - SLOP

ATTN:

QC Type

Description

Reag. Code

Lab ID

Dilution Factor

Date

Tîme

Test Method....: 6010B

Method Description.: Metals Analysis (ICAP Trace)

Equipment Code...: ICP3

Batch..... 63524

Analyst...: tds

SD Serial Dilution				211976-1		09	/21/2002 064	48
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits	F
Aluminum, Wipe	mg/Wipe	0.24691			1.20916	2.1	D 10.0	
Antimony, Wipe	mg/Wipe	0.00200 U			0.00200 U			
Arsenic, Wipe	mg/Wipe	0.00100 U			0.00166			
Barium, Wipe	mg/Wipe	0.00699			0.03533			
Beryllium, Wipe	mg/Wipe	0.00040 U			0.00040 U			
Cadmium, Wipe	mg/Wipe	0.00020 U		•	0.00038			
Calcium, Wipe	mg/Wipe	5.33308			26.89518	0.9	D 10.0	
Chromium, Wipe	mg/Wipe	0.00933			0.04673			
Cobalt, Wipe	mg/Wipe	0.00050 U			0.00067			
Copper, Wipe	mg/Wipe	0.00370			0.01930			
Iron, Wipe	mg/Wipe	1.03947			5.08939	2.1	D 10.0	
Lead, Wipe	mg/Wipe	0.04275			0.20695			
Magnesium, Wipe	mg/Wipe	0.11452			0.54633	4.8	D 10.0	
Manganese, Wipe	mg/Wipe	0.01441			0.07158	0.7	D 10.0	
Nickel, Wipe	mg/Wipe	0.00100 U			0.00315			
Selenium, Wipe	mg/Wipe	0.00050 U			0.00116			
Silver, Wipe	mg/Wipe	0.00050 U			0.00180			
Thallium, Wipe	mg/Wipe	0.00100 U			0.00100 U			
Vanadium, Wipe	mg/Wipe	0.00131			0.00695			
Zinc, Wipe	mg/Wipe	0.01409			0.06879			



Orig. Value QC Calc. \* Limits

0.05000 U 87

0.10000 U 87

%

%

80-120

80-120

F

CUSTOMER: SCS Engineers, Inc.		PROJECT: GS	A - SLOP		ATTN:		
QC Type Descript	ion	R	eag. Code	Lab ID	Dilution Factor	Date	Time
est Method: 6010B ethod Description: Metals Analysi	s (ICAP Trace	9)	Equipment Coc Batch	le: ICP4 : 63632	Analyst	: tds	
ethod Description.: Metals Analysi  CS Laboratory Control Sam	ple	мог	ISPK004	63171 -002		09/23/200	
Ethod Description.: Metals Analysi  Laboratory Control Sam  Parameter/Test Description	ple Units	MOZ QC Result	Batch	63171 -002 True Value	Orig. Value QC Calc	09/23/200	imits
Ethod Description.: Metals Analysics  Laboratory Control Sam  Parameter/Test Description  cium, Wipe	ple Units mg/Wipe	QC Result 0.94866	ISPK004	63171 -002  True Value  1.00000	Orig. Value QC Calc 0.01264 95	09/23/200 . * Li % 8	imits 30-120
ethod Description.: Metals Analysi  CS Laboratory Control Sam	ple Units	MOZ QC Result	ISPK004	63171 -002 True Value	Orig. Value QC Calc	09/23/200 . * Li % & % &	imits

QC Result

True Value

1.00000

1.00000

Parameter/Test Description

Potassium, Wipe

Sodium, Wipe

Units

mg/Wipe

mg/Wipe

QC Result

0.86697

0.86841



Job Number.: 211976	QUA	LITY CON	TROL R	E.S U L T S	Report Date.: 0	9/27/2002
CUSTOMER: SCS Engineers, Inc.		PROJECT: GSA	- SLOP		ATTN:	
QC Type Descri	ption	Rea	ag. Code	Lab ID	Dilution Facto	r Date Time
Test Method: 6010B Method Description.: Metals Analy	sis (ICAP Trac		Equipment Coo Batch	de: ICP4 : 63632	Ana	lyst: tds
MB Method Blank		6317	1	63171 -001		09/23/2002 2125
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC	Calc. * Limits
Calcium, Wipe Lead, Wipe Potassium, Wipe Sodium, Wipe	mg/Wipe mg/Wipe mg/Wipe mg/Wipe	0.01264 0.00500 U 0.05000 U 0.10000 U				
MB Method Blank		6326	6	63266 -001		09/24/2002 0125
Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value QC	Calc. * Limits
Potassium, Wipe Sodium, Wipe	mg/Wipe mg/Wipe	0.05000 U 0.10000 U				



QUALITY CONTROL RESULTS

Job Number.: 211976

Report Date.: 09/27/2002

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - SLOP ATTN:

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

Test Method.....: 6010B Equipment Code...: ICP4 Analyst...: tds
Method Description: Metals Analysis (ICAP Trace) Batch......: 63632

Serial Dilution SD 211976-1 09/24/2002 0143 Parameter/Test Description Units QC Result QC Result True Value Orig. Value QC Calc. \* Limits Potassium, Wipe mg/Wipe 0.21244 1.10855 Sodium, Wipe mg/Wipe 0.29248 1.46343



### QUALITY ASSURANCE METHODS

#### REFERENCES AND NOTES

Report Date: 09/27/2002

### 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 AZ0603.
- 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.
- 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)

- ICV,CCV,ICB,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.

Ε

- 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.
  - The chromatographic response resembles a typical fuel pattern.
- Z The chromatographic response does not resemble a typical fuel pattern.
  - 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
- a 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 interfence, recovery is not calculated.
- M Manually integrated compound.



### QUALITY ASSURANCE METHODS

#### REFERENCES AND NOTES

Report Date: 09/27/2002

The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%. Abbreviations Post Digestion Spike (GFAA Samples - See Note 1 below) AS Batch Designation given to identify a specific extraction, digestion, preparation set, or analysis set Capillary Column CCB Continuing Calibration Blank CAP CCV Continuing Calibration Verification CF Confirmation analysis of original C1 Confirmation analysis of A1 or D1  $\Gamma^2$ 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 Calilbration Verification Standard CV 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 Distilled Standard - Medium Level DSM EB1 Extraction Blank 1 Extraction Blank 2 FB2 EB3 DI Blank ELC Method Extracted LCS FID Method Extracted LCD Initial calibration ICAL Initial Calibration Blank TCB ICV Initial Calibration Verification IDL Instrument Detection Limit ISA Interference Check Sample A - ICAP ISB Interference Check Sample B - ICAP The first six digits of the sample ID which refers to a specific client, project and sample group Job No. 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 Method Detection Limit MDL Medium Level Extraction Blank MLE 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) Post Digestion Spike (ICAP) PDS Re-analysis of original RA Α1 Re-analysis of D1 Α2 Re-analysis of D2 Α3 Re-analysis of D3 RD Re-extraction of dilution RE Re-extraction of original RC Re-extraction Confirmation RL Reporting Limit RPD Relative Percent Difference of duplicate (unrounded) analyses RRF Relative Response Factor



QUALITY ASSURANCE METHODS

#### REFERENCES AND NOTES

Report Date: 09/27/2002

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

SCB 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

G2 Gelex Check Standard Range 1-10
G3 Gelex Check Standard Range 10-100
G4 Gelex Check Standard Range 100-1000

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 ( $\mathring{A}$ ) when the sample concentration is less than 5 times the reporting limit. The control limit is represented as +/- the RL.

Lab Lot# 2   197 (orange Sealed Yes) No Yes Of Cooler	Within Hold Time Preserv. Indicated  Yes No Hes Cl <sub>2</sub> Check OK Yes No NA Yes No NA Sample Labels and COC Agree  Yes No COC not present Additional Analyses / Remarks		DATE 12 OZ TIME  DATE Received Q 12 02  Courier: FX Hand Delivered Bill of Lading See attach
e Kr			COMPANY
t. Sands Weaks	- 54 (alue) 43 - 56 - 56 - 56 - 56 - 56 - 56 - 56 - 5		RECEIVED BY OOO
Bill To:  Contact:  Company:  Mo (04(3)  75570  Phone:  DSCSengineen. Confront:	VOC 44 20-	×× × × × × × × × × × × × × × × × × × ×	Yno
	Matrix Yolume Comp. Graph	NN BENN	DATE 9.11 O.2 TIME 6  DATE 11. HCI, 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. None
or ro.  Sec. Daw.  Sec. Sec. Sec. Sec. Sec. Color  Sec. Sec. Color  Sec. Color  Sec. Color  Blog  Blog	(9) (9) Sampling	05.4.50 05.5 01.55	ontainer Ke titc Wal ile Plastic Der Glass
Reproductive Control Phon	Project Number:  O220 7-000.  Date Required  Hard Copy:  Fax:  Client  Sample ID	05 DC 5 55 1 05 DC 5 55 2 105 DC 5 W 5 1 105 DC 5 W 5 2	Matrix Key SE = Sediment SE = Sediment SO = Solid DL = Drum Liquid L = Leachate U = Wipe  O = COMPANY C C SO = COMPANY C - VOA SO = COM
SEVERN TRENT SERVICES ST. Chicago 2417 Bond Street University Park, IL 60466 Phone: 708-534-5200 Fax: 708-534-5211	Sampler Name: Project Name:  ASA SLOT Project Location: Lab PM: D		RELINQUISHED BY WW = Wastewater SS W = Water SS SOil DI SL = Soil DI SL = Soil DI SL = Miscellaneous L OIL = OIL W W OL = Air