SECTION

2 OF 10

Westinghouse
Hanford Company

012369
2 of 10

OSM RCRA LEVEL C DATA ASSESSMENT

DATE 1-3-91

SAMPLES/MATRIX Seq #(1)89-054 (2)89-055 (3)89-056 (4)89-057 (5)89-058

REVIEWED BY C.J. SIMIELE Conrad J. Simiele

LABORATORY PNL-325

CASE # SST-241-B-110

SDG # Core 9

LABID:
90-0300 90-1256
90-0301 90-1257
90-0304 90-1275
90-0305 90-1276
90-0255 ~~90-1~~ LSS

DATA ASSESSMENT SUMMARY

QUALITY CONTROL CHECK	ANALYSIS ICP F	ICP A	ICP W
1. Holding Time	X	X	X
2. Calibration	X	O	O
3. Analytical Blank	X	X	X
4. LCS	*	*	*
5. ICS (ICP ONLY)	*	*	*
6. Matrix Spike	M	X	M
7. Duplicate Analyses	X	X	X
8.			
9.			
10.			

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems/some data may be unusable

OVERALL ASSESSSMENT: (Samples not qualified based on exceeded holding times.)

- No Radiochemistry or Physical data validation completed on data package.

NOTES: * = no data provided with data package

No Radiochemical Validation done on data package.

f = fusion, W = water leach, A = acid digestion.

o Refer to the corresponding attachments for explanation of any problems.

- No Bi Raw data was provided with data package.

Westinghouse
Hanford Company

OSM RCRA LEVEL C DATA ASSESSMENT

DATE 1-3-91

REVIEWED BY C.J. SIMIELE Conrad J. Simiele

LABORATORY PNL-325

CASE # SST-241-B-110

SDG # Core 9

SAMPLES/MATRIX Seq #(1) 89-054 (2) 89-055 (3) 89-056 (4) 89-057 (5) 89-058

LAB ID: 90-0300 90-0305 90-1257 90-0301 90-1255 90-1275 90-0304 90-1256 90-1276

DATA ASSESSMENT SUMMARY

QUALITY CONTROL CHECK	ANALYSIS	IC	TOC	A.A. (As, Se & Pb)
1. Holding Time		X	X	X
2. Calibration		X	O	O
3. Analytical Blank		X	O	O
4. LCS		*	*	*
5. ICS (ICP ONLY)		N/A	N/A	N/A
6. Matrix Spike		O	M	O
7. Duplicate Analyses		O	O	O
8.				
9.				
10.				

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems/some data may be unusable

OVERALL ASSESSSMENT: (Samples not qualified based on exceeded holding times.)

NOTES: * = no data provided with data package
No Radiochemical Validation done on data package.

o Refer to the corresponding attachments for explanation of any problems.

Westinghouse
Hanford Company

OSM RCRA LEVEL C DATA ASSESSMENT

DATE 1-3-91

REVIEWED BY C.J. SIMIELE Conque Simiele

LABORATORY PNL-325

CASE # SST-241-B-110

SDG # Core 9

SAMPLES/MATRIX Seq #(1) 89-054 (2) 89-055 (3) 89-056 (4) 89-057 (5) 89-058

LABID: 90-0300 90-0305 90-1257 90-0361 90-1255 90-1275 90-0304 90-1256 90-1276

DATA ASSESSMENT SUMMARY

QUALITY CONTROL CHECK	ANALYSIS	Cr(VI)	NH_3	Hg
1. Holding Time		X	X	X
2. Calibration		X	O	X
3. Analytical Blank		O	O	O
4. LCS		*	*	*
5. ICS (ICP ONLY)		N/A	N/A	N/A
6. Matrix Spike		M	O	X
7. Duplicate Analyses		O	O	O
8.				
9.				
10.				

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems/some data may be unusable

OVERALL ASSESSSMENT: (Samples not qualified based on exceeded holding times.)

NOTES: * = no data provided with data package
No Radiochemical Validation done on data package.

o Refer to the corresponding attachments for explanation of any problems.

TABLE 10.1: SST Core 9, Segment 3 Fusion ICP

Samp Log#:	90-0300a1	90-0300a2		90-0301a1	90-0301a2		90-0300a3	90-0301a3			
Dilution:	1.00	1.00		1.00	1.00		1.00	1.00			
Wt% Fctr:	0.49820	0.43861		0.47429	0.47535		0.47063	0.47063			
ICP Run#:	1642	1641		1643	1644		1640	1645		DL	QL
	(Wt %)	(Wt %)	RPD	(Wt %)	(Wt %)	RPD	(Wt %)	(Wt %)	RPD	(ug/mL)	(ug/mL)
Ag	<DL R	<DL		<DL R	<DL		<DL	<DL		0.0199	0.0665
Al	<DL	<DL		<DL	<DL		<DL	<DL		0.0591	0.1969
As	<DL	<DL		<DL	<DL		<DL	<DL		0.1171	0.3904
B	<DL	<DL		<DL	<DL		<DL	<DL		0.1148	0.3826
Ba	<DL	<DL		<DL	<DL		<DL	<DL		0.0044	0.0146
Be	<DL	<DL		<DL	<DL		<DL	<DL		0.0003	0.0009
Ca	0.0691	0.0594	15.1%	0.0544	0.0580	6.4%	0.0082	0.0103	22.4%	0.0013	0.0045
Cd	<DL	<DL		<DL	<DL		<DL	<DL		0.0101	0.0335
Ce	<DL	<DL		<DL	<DL		<DL	<DL		0.3217	1.0722
Co	<DL	<DL		<DL	<DL		<DL	<DL		0.5001	1.6668
Cr	0.0701	0.0697	0.6%	0.0704	0.0707	0.4%	<DL	<DL		0.0167	0.0557
Cu	<DL	<DL		<DL	<DL		<DL	<DL		0.0152	0.0508
Dy	<DL	<DL		<DL	<DL		<DL	<DL		0.0181	0.0604
Fe	1.3704	1.3792	0.6%	1.3607	1.3904	2.2%	<DL	<DL		0.0118	0.0395
K										0.7315	2.4385
La	<DL	<DL		<DL	<DL		<DL	<DL		0.0247	0.0823
Li	<DL	<DL		<DL	<DL		<DL	<DL		0.0214	0.0712
Mg	0.0157	0.0162	3.3%	0.0132	0.0146	10.5%	<DL	(0.0009)		0.0015	0.0050
Mn	0.0048	0.0052	8.7%	0.0047	0.0055	16.1%	<DL	<DL		0.0019	0.0063
Mo	<DL	<DL		<DL	<DL		<DL	<DL		0.0363	0.1210
Na	9.4444	9.4091	0.4%	9.4598	9.5913	1.4%	<DL	<DL		0.2702	0.9006
Nd	<DL	<DL		<DL	<DL		<DL	<DL		0.1111	0.3702
Ni										0.0231	0.0769
P	1.5579	1.5076	3.3%	1.4882	1.5079	1.3%	<DL	<DL		0.3481	1.1604
Pb	<DL	<DL		<DL	<DL		<DL	<DL		0.1055	0.3518
Re	<DL	<DL		<DL	<DL		<DL	<DL		0.0249	0.0830
Rh	<DL	<DL		<DL	<DL		<DL	<DL		0.1541	0.5137
Ru	<DL	<DL		<DL	<DL		<DL	<DL		0.0820	0.2733
Sb	<DL	<DL		<DL	<DL		<DL	<DL		0.3449	1.1496
Se	<DL	<DL		<DL	<DL		<DL	<DL		0.2326	0.7755
Si	0.7394	0.7517	1.6%	0.7380	0.7738	4.7%	<DL	<DL		0.0927	0.3090
Sr	0.0149	0.0149	0.1%	0.0149	0.0152	1.8%	<DL	<DL		0.0017	0.0058
Te	<DL	<DL		<DL	<DL		<DL	<DL		0.1011	0.3369
Th	<DL	<DL		<DL	<DL		<DL	<DL		0.1754	0.5845
Ti	<DL	<DL		<DL	<DL		<DL	<DL		0.0135	0.0450
Tl	<DL UJ	<DL		<DL UJ	<DL		<DL	<DL		2.5070	8.3567
U	<DL	<DL		<DL	<DL		<DL	<DL		1.6162	5.3874
V	<DL	<DL		<DL	<DL		<DL	<DL		0.0173	0.0578
Zn	(0.0055)	(0.0044)	21.2%	(0.0024)	(0.0028)	14.9%	<DL	<DL		0.0044	0.0146
Zr	<DL	<DL		<DL	<DL		<DL	<DL		0.0143	0.0478
Bi	1.5743	1.6185	2.8%	1.5557	1.5259	1.9%	0.0094	0.0188	66.7%		

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TABLE 10.2: SST Core 9, Segment 5 Fusion ICP

Samp Log#:	90-0304a1	90-0304a2		90-0305a1	90-0305a2		90-0304a3	90-0305a3			
Dilution:	1.00	1.00		1.00	1.00		1.00	1.00			
Wt% Fctr:	0.49560	0.49498		0.47725	0.48651		0.48847	0.48847			
ICP Run#:	1652	1651		1653	1654		1650	1655		DL	QL
	(Wt %)	(Wt %)	RPD	(Wt %)	(Wt %)	RPD	(Wt %)	(Wt %)	RPD	(ug/mL)	(ug/mL)
Ag	<DL R	<DL		<DL R	<DL		<DL	<DL		0.0199	0.0665
Al	<DL	<DL		<DL	<DL		<DL	<DL		0.0591	0.1969
As	<DL	<DL		<DL	<DL		<DL	<DL		0.1171	0.3904
B	<DL	<DL		<DL	<DL		<DL	<DL		0.1148	0.3826
Ba	<DL	(0.0023)		(0.0022)	(0.0024)	8.3%	<DL	<DL		0.0044	0.0146
Be	<DL	<DL		<DL	<DL		<DL	<DL		0.0003	0.0009
Ca	0.0500	0.0446	11.5%	0.0467	0.0478	2.2%	0.0101	0.0482	130.6%	0.0013	0.0045
Cd	<DL	<DL		<DL	<DL		<DL	<DL		0.0101	0.0335
Ce	<DL	<DL		<DL	<DL		<DL	<DL		0.3217	1.0722
Co	<DL	<DL		<DL	<DL		<DL	<DL		0.5001	1.6668
Cr	0.0715	0.0730	2.1%	0.0723	0.0721	0.2%	<DL	<DL		0.0167	0.0557
Cu	<DL	<DL		<DL	<DL		<DL	<DL		0.0152	0.0508
Dy	<DL	<DL		<DL	<DL		<DL	<DL		0.0181	0.0604
Fe	1.5347	1.5589	1.6%	1.5392	1.5712	2.1%	<DL	<DL		0.0118	0.0395
K										0.7315	2.4385
La	<DL	<DL		<DL	<DL		<DL	<DL		0.0247	0.0823
Li	<DL	<DL		<DL	<DL		<DL	<DL		0.0214	0.0712
Mg	0.0107	0.0108	0.3%	0.0099	0.0124	22.2%	(0.0008)	(0.0008)	6.3%	0.0015	0.0050
Mn	0.0065	0.0064	0.9%	0.0066	0.0072	7.5%	<DL	<DL		0.0019	0.0063
Mo	<DL	<DL		<DL	<DL		<DL	<DL		0.0363	0.1210
Na	9.6168	9.7675	1.6%	9.6815	9.7993	1.2%	<DL	<DL		0.2702	0.9006
Nd	<DL	<DL		<DL	<DL		<DL	<DL		0.1111	0.3702
Ni										0.0231	0.0769
P	1.5542	1.6192	4.1%	1.5523	1.5979	2.9%	<DL	<DL		0.3481	1.1604
Pb	<DL	<DL		<DL	<DL		<DL	<DL		0.1055	0.3518
Re	<DL	<DL		<DL	<DL		<DL	<DL		0.0249	0.0830
Rh	<DL	<DL		<DL	<DL		<DL	<DL		0.1541	0.5137
Ru	<DL	<DL		<DL	<DL		<DL	<DL		0.0820	0.2733
Sb	<DL	<DL		<DL	<DL		<DL	<DL		0.3449	1.1496
Se	<DL	<DL		<DL	<DL		<DL	<DL		0.2326	0.7755
Si	0.8068	0.8146	1.0%	0.8124	0.8310	2.3%	<DL	<DL		0.0927	0.3090
Sr	0.0212	0.0216	1.5%	0.0213	0.0215	1.0%	<DL	<DL		0.0017	0.0058
Te	<DL	<DL		<DL	<DL		<DL	<DL		0.1011	0.3369
Th	<DL	<DL		<DL	<DL		<DL	<DL		0.1754	0.5845
Ti	<DL	<DL		<DL	<DL		<DL	<DL		0.0135	0.0450
Tl	<DL	<DL		<DL	<DL		<DL	<DL		2.5070	8.3567
U	<DL	<DL		<DL	<DL		<DL	<DL		1.6162	5.3874
V	<DL	<DL		<DL	<DL		<DL	<DL		0.0173	0.0578
Zn	0.0122	0.0115	6.4%	0.0129	0.0134	3.8%	<DL	<DL		0.0044	0.0146
Zr	<DL	<DL		<DL	<DL		<DL	<DL		0.0143	0.0478
Bi	1.5810	1.6384	3.6%	1.5558	1.5228	2.1%	<DL	<DL			

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TABLE 10.3: SST Core 9, Composite Fusion ICP

Samp Log#:	90-1255a1	90-1255a2		90-1256a1	90-1256a2		90-1255a3				
Dilution:	1.00	1.00		1.00	1.00		1.00				
Wt% Fctr:	0.49641	0.48009		0.52552	0.46607		0.49104				
ICP Run#:	1661	1660		1662	1663		1659				
										DL	QL
	(Wt %)	(Wt %)	RPD	(Wt %)	(Wt %)	RPD	(Wt %)	(Wt %)	RPD	(ug/mL)	(ug/mL)
Ag	(0.0144) R	(0.0182)	23.6%	(0.0152) R	(0.0131)	15.1%	<DL			0.0199	0.0665
Al	(0.0405)	(0.0387)	4.6%	(0.0362)	(0.0339)	6.5%	<DL			0.0591	0.1969
As	<DL	<DL		<DL	<DL		<DL			0.1171	0.3904
B	<DL	<DL		<DL	<DL		<DL			0.1148	0.3826
Ba	(0.0035)	(0.0029)	21.6%	(0.0031)	(0.0031)	2.4%	<DL			0.0044	0.0146
Be	<DL	(0.0002)		<DL	<DL		<DL			0.0003	0.0009
Ca	0.0622 H	0.0610	1.9%	0.0577 H	0.0648	11.6%	0.0208			0.0013	0.0045
Cd	<DL	<DL		<DL	<DL		<DL			0.0101	0.0335
Ce	<DL	<DL		<DL	<DL		<DL			0.3217	1.0722
Co	<DL	<DL		<DL	<DL		<DL			0.5001	1.6668
Cr	0.0753	0.0739	1.8%	0.0753	0.0753	0.1%	<DL			0.0167	0.0557
Cu	(0.0238)	0.0283	17.2%	(0.0176)	(0.0166)	6.2%	<DL			0.0152	0.0508
Dy	<DL	<DL		<DL	<DL		<DL			0.0181	0.0604
Fe	1.4629	1.4582	0.3%	1.4667	1.4413	1.8%	<DL			0.0118	0.0395
K										0.7315	2.4385
La	<DL	<DL		<DL	<DL		<DL			0.0247	0.0823
Li	<DL	<DL		<DL	<DL		<DL			0.0214	0.0712
Mg	0.0143	0.0137	4.7%	0.0137	0.0138	0.6%	(0.0015)			0.0015	0.0050
Mn	0.0088	0.0093	6.4%	0.0101	0.0091	9.9%	<DL			0.0019	0.0063
Mo	<DL	<DL		<DL	<DL		<DL			0.0363	0.1210
Na	9.2363	9.2663	0.3%	9.1537	9.1741	0.2%	<DL			0.2702	0.9006
Nd	<DL	<DL		<DL	<DL		<DL			0.1111	0.3702
Ni										0.0231	0.0769
P	1.5567	1.5539	0.2%	1.6132	1.5530	3.8%	<DL			0.3481	1.1604
Pb	<DL	<DL		(0.0557)	<DL		<DL			0.1055	0.3518
Re	<DL	<DL		<DL	<DL		<DL			0.0249	0.0830
Rh	<DL	<DL		<DL	<DL		<DL			0.1541	0.5137
Ru	<DL	<DL		<DL	<DL		<DL			0.0820	0.2733
Sb	<DL	<DL		<DL	<DL		<DL			0.3449	1.1496
Se	<DL	<DL		<DL	<DL		<DL			0.2326	0.7755
Si	0.8386	0.8195	2.3%	0.8171	0.8209	0.5%	<DL			0.0927	0.3090
Sr	0.0174	0.0174	0.3%	0.0173	0.0172	0.6%	<DL			0.0017	0.0058
Te	<DL	<DL		<DL	<DL		<DL			0.1011	0.3369
Th	<DL	<DL		<DL	<DL		<DL			0.1754	0.5845
Ti	<DL	<DL		<DL	<DL		<DL			0.0135	0.0450
Tl	<DL	<DL		<DL	<DL		<DL			2.5070	8.3567
U	<DL	<DL		<DL	<DL		<DL			1.6162	5.3874
V	<DL	<DL		<DL	<DL		<DL			0.0173	0.0578
Zn	0.0131	0.0167	23.8%	0.0121	0.0117	2.9%	<DL			0.0044	0.0146
Zr	<DL	<DL		<DL	<DL		<DL			0.0143	0.0478
Bi	1.5389	1.4787	4.0%	1.5450	1.4448	6.7%	<DL				

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TABLE 10.4: SST Core 9, Segment 3 Acid Leach ICP

Samp Log#:	90-1275a1	90-1275a1		90-1275a2	90-1275a2		90-1275a5	90-1275a5			
Dilution:	1.00	5.00		1.00	5.00		1.00	5.00			
Wt% Factor	0.02494	0.12471		0.02349	0.11745		0.02419	0.12097			
ICP Run #	1712	1739		1711	1738		1708	1735		DL	QL
	(Wt %)	(Wt %)	%Dif	(Wt %)	(Wt %)	%Dif	(Wt% *)	(Wt% *)	%Dif	(ug/mL)	(ug/mL)
Ag	0.0017	(0.0021)		<DL	(0.0019)		<DL	<DL		0.0067	0.0224
Al	0.0170U	(0.0172)		0.0202	0.0212	4.9%	0.0039	<DL		0.0427	0.1422
As	<DL	<DL		<DL	<DL		<DL	<DL		0.0882	0.2940
B	(0.0066)	<DL		(0.0072)	<DL		(0.0058)	<DL		0.1553	0.5175
Ba	0.0011	0.0012	11.7%	0.0011	0.0012	6.6%	(0.0001)	<DL		0.0017	0.0055
Be	<DL	<DL		<DL	<DL		(0.0000)	<DL		0.0002	0.0007
Ca	0.0595U	0.0645	8.3%	0.0609	0.0658	8.1%	0.0162	0.0178	10.2%	0.0004	0.0015
Cd	<DL UJ	<DL		<DL	<DL		<DL	<DL		0.1248	0.4159
Ce	<DL	<DL		<DL	<DL		<DL	<DL		0.0945	0.3151
Co	<DL	<DL		<DL	<DL		<DL	<DL		0.2179	0.7265
Cr	0.0749	0.0800	6.8%	0.0751	0.0798	6.2%	0.0008	<DL		0.0091	0.0304
Cu	0.0030	0.0034	16.1%	0.0029	0.0033	13.5%	<DL	<DL		0.0031	0.0102
Dy	<DL	<DL		<DL	<DL		<DL	<DL		0.0039	0.0130
Fe	1.3618	1.4577	7.0%	1.3659	1.4601	6.9%	0.0022	0.0015	30.3%	0.0034	0.0114
K	(0.0334)	<DL		0.0342	(0.0492)		<DL	<DL		0.4180	1.3933
La	(0.0003)	<DL		(0.0003)	<DL		<DL	<DL		0.0086	0.0288
Li	<DL	<DL		<DL	<DL		<DL	<DL		0.0047	0.0157
Mg	0.0157	0.0170	8.2%	0.0155	0.0167	7.7%	0.0030	0.0035	14.2%	0.0003	0.0010
Mn	0.0045	0.0048	7.5%	0.0045	0.0048	6.8%	(0.0001)	<DL		0.0014	0.0046
Mo	<DL	<DL		(0.0005)	<DL		<DL	<DL		0.0170	0.0566
Na	9.2846	9.8839	6.5%	9.3031	9.8553	5.9%	0.0421	(0.0447)		0.1638	0.5461
Nd	<DL	<DL		<DL	<DL		<DL	<DL		0.0440	0.1466
Ni	0.0013	(0.0019)		0.0013	(0.0016)		<DL	<DL		0.0100	0.0332
P	1.5656	1.7339	10.8%	1.5770	1.6975	7.6%	<DL	<DL		0.2051	0.6836
Pb	0.0126	0.0133	5.8%	0.0129	(0.0117)		(0.0021)	<DL		0.0301	0.1002
Re	(0.0005)	<DL		(0.0006)	<DL		<DL	<DL		0.0094	0.0312
Rh	<DL	<DL		<DL	<DL		<DL	<DL		0.0390	0.1299
Ru	0.0127	(0.0161)		0.0129	(0.0154)		<DL	<DL		0.0653	0.2178
Sb	<DL	<DL		<DL	<DL		<DL	<DL		0.1634	0.5446
Se	<DL UJ	<DL		<DL	<DL		<DL	<DL		0.0875	0.2915
Si	0.0626	0.0661	5.7%	0.0536	0.0562	4.8%	0.0072	(0.0085)		0.0326	0.1086
Sr	0.0150	0.0159	5.5%	0.0151	0.0159	5.1%	0.0001	(0.0001)		0.0003	0.0010
Te	(0.0014)J	<DL		(0.0011)	<DL		<DL	<DL		0.0274	0.0915
Th	<DL	<DL		<DL	<DL		<DL	<DL		0.0840	0.2799
Ti	(0.0004)	<DL		(0.0004)	<DL		<DL	<DL		0.0073	0.0242
Tl	<DL UJ	<DL		<DL	<DL		<DL	<DL		1.5843	5.2809
U	0.0567	(0.1009)		0.0589	(0.0915)		<DL	<DL		0.6372	2.1242
V	(0.0002)	<DL		(0.0002)	<DL		<DL	<DL		0.0050	0.0167
Zn	0.0032U	0.0041	29.6%	0.0032	0.0040	27.1%	(0.0001)	(0.0010)		0.0038	0.0127
Zr	0.0015	(0.0017)		0.0014	(0.0016)		0.0145	0.0151	4.6%	0.0056	0.0187
Bi	1.6234			1.6065							

* Methods blank - average sample weight used to calculate wt%.

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C.J. Sunpell

TABLE 10.4: SST Core 9, Segment 3 Acid Leach ICP (Cont'd)

	90-1275a1 90-1275a2 Average		Spike Added	90-1275a3 1.00 Spike+ Sample	90-1275a3 5.00 Spike+ Sample	<Sample ID> <Dilution> % Dif	% Rec	90-1275a4 1.00 Spike Control	90-1275a4 5.00 Spike Control	% Dif	Spike STD	% rec
	(Wt %)	RPD	(Wt %)	(Wt %)	(Wt %)			(ug/mL)	(ug/mL)		(ug/mL)	
Ag	N/A			0.0017	(0.0019)							
Al	0.0186	17.0%		0.0167	0.0178	6.4%						
As	N/A		0.0459	0.0392	0.0450	14.7%	85.5%	17.3	20.4	18.1%	20.0	86.4%
B	0.0069	8.8%		(0.0067)	<DL							
Ba	0.0011	2.8%	0.0459	0.0455	0.0479	5.2%	96.9%	19.8	20.3	2.7%	20.0	98.9%
Be	N/A		0.0011	0.0011	0.0011	7.5%	92.7%	0.5	0.5	3.9%	0.5	93.8%
Ca	0.0602	2.2%		0.0582	0.0631	8.6%						
Cd	N/A		0.0011	<DL	<DL		167.3%	0.7	2.5	251.1%	0.5	142.2%
Ce	N/A			<DL	<DL							
Co	N/A		0.0115	(0.0105)	<DL		91.7%	4.0	6.1	52.2%	5.0	79.6%
Cr	0.0750	0.3%		0.0744	0.0798	7.1%						
Cu	0.0030	0.8%	0.0057	0.0083	0.0092	11.1%	93.3%	2.5	2.6	5.0%	2.5	98.5%
Dy	N/A			<DL	<DL							
Fe	1.3638	0.3%		1.3507	1.4555	7.8%						
K	0.0338	2.4%		0.0340	(0.0520)							
La	0.0003	14.8%		(0.0004)	<DL							
Li	N/A			<DL	<DL							
Mg	0.0156	1.2%		0.0151	0.0164	8.3%						
Mn	0.0045	0.0%	0.0115	0.0154	0.0165	7.3%	95.4%	4.9	5.1	3.9%	5.0	98.9%
Mo	N/A			(0.0004)	<DL							
Na	9.2938	0.2%		9.2308	9.8522	6.7%						
Nd	N/A			<DL	<DL							
Ni	0.0013	1.2%	0.0115	0.0121	0.0133	10.3%	94.2%	4.9	5.2	4.5%	5.0	98.9%
P	1.5713	0.7%		1.5373	1.7354	12.9%						
Pb	0.0127	3.1%	0.0115	0.0228	0.0226	1.3%	88.1%	4.7	4.5	4.4%	5.0	93.5%
Re	0.0006	18.1%		(0.0006)	<DL							
Rh	N/A			<DL	<DL							
Ru	0.0128	1.6%		0.0128	(0.0151)							
Sb	N/A			(0.0114)	<DL							
Se	N/A		0.0459	0.0242	(0.0312)		52.7%	12.0	15.1	25.4%	20.0	60.1%
Si	0.0581	15.5%		0.2174	0.2291	5.4%						
Sr	0.0151	0.4%		0.0149	0.0158	5.7%						
Te	0.0012	23.6%		(0.0015)	<DL							
Th	N/A			<DL	<DL							
Ti	0.0004	3.4%		(0.0004)	<DL							
Tl	N/A		0.0459	<DL	<DL		58.5%	12.6			20.0	63.0%
U	0.0578	3.8%		0.0586	(0.0962)							
V	0.0002	4.7%	0.0115	0.0112	0.0121	7.9%	96.2%	4.8	5.0	3.0%	5.0	97.0%
Zn	0.0032	0.7%	0.0115	0.0142	0.0166	16.7%	96.1%	4.9	5.7	15.4%	5.0	98.7%
Zr	0.0014	8.7%		0.0033	0.0036	8.8%						
Bi	1.6150	1.0%		1.6058								

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TABLE 10.5: SST Core 9, Segment 5 Acid Leach ICP

Samp Log#:	90-1276a1	90-1276a1		90-1276a2	90-1276a2		90-1276a5	90-1276a5			
Dilution:	1.00	5.00		1.00	5.00		1.00	5.00			
Wt% Factor	0.02325	0.11626		0.02395	0.11976		0.02360	0.11799			
ICP Run #	1721	1746		1720	1745		1717	1742		DL	QL
	(Wt %)	(Wt %)	%Dif	(Wt %)	(Wt %)	%Dif	(Wt% *)	(Wt% *)	%Dif	(ug/mL)	(ug/mL)
Ag	<DL	<DL		(0.0002)	<DL		<DL	<DL		0.0067	0.0224
Al	0.0140 J	(0.0126)		0.0108	(0.0092)		<DL	<DL		0.0427	0.1422
As	<DL	<DL		<DL	<DL		<DL	<DL		0.0882	0.2940
B	(0.0063)	<DL		(0.0076)	<DL		<DL	<DL		0.1553	0.5175
Ba	0.0014	0.0015	8.2%	0.0014	0.0014	5.9%	(0.0001)	<DL		0.0017	0.0055
Be	<DL	<DL		<DL	<DL		<DL	<DL		0.0002	0.0007
Ca	0.0479	0.0514	7.2%	0.0496	0.0520	4.8%	0.0067	0.0077	16.2%	0.0004	0.0015
Cd	<DL UJ	<DL		<DL	<DL		<DL	<DL		0.1248	0.4159
Ce	<DL	<DL		<DL	<DL		<DL	<DL		0.0945	0.3151
Co	<DL	<DL		<DL	<DL		<DL	<DL		0.2179	0.7265
Cr	0.0736	0.0765	3.9%	0.0738	0.0758	2.6%	(0.0003)	<DL		0.0091	0.0304
Cu	0.0022 J	0.0026	21.8%	0.0040	0.0043	8.8%	<DL	<DL		0.0031	0.0102
Dy	<DL	<DL		<DL	<DL		<DL	<DL		0.0039	0.0130
Fe	1.5920	1.6757	5.3%	1.6193	1.6886	4.3%	0.0013	(0.0006)		0.0034	0.0114
K	(0.0233)	<DL		(0.0226)	<DL		<DL	<DL		0.4180	1.3933
La	(0.0004)	<DL		(0.0004)	<DL		<DL	<DL		0.0086	0.0288
Li	<DL	<DL		<DL	<DL		<DL	<DL		0.0047	0.0157
Mg	0.0127	0.0135	6.7%	0.0130	0.0137	5.8%	0.0014	0.0017	23.9%	0.0003	0.0010
Mn	0.0050	0.0052	4.3%	0.0050	0.0051	2.7%	(0.0000)	<DL		0.0014	0.0046
Mo	<DL	<DL		<DL	<DL		<DL	<DL		0.0170	0.0566
Na	9.7777	10.2296	4.6%	9.9687	10.3179	3.5%	(0.0068)	<DL		0.1638	0.5461
Nd	<DL	<DL		<DL	<DL		<DL	<DL		0.0440	0.1466
Ni	0.0024	(0.0029)		0.0021	(0.0026)		<DL	<DL		0.0100	0.0332
P	1.5817	1.8018	13.9%	1.6198	1.8492	14.2%	<DL	<DL		0.2051	0.6836
Pb	0.0333	0.0350	5.1%	0.0322	0.0338	4.7%	<DL	<DL		0.0301	0.1002
Re	(0.0005)	<DL		(0.0005)	<DL		<DL	<DL		0.0094	0.0312
Rh	<DL	<DL		<DL	<DL		<DL	<DL		0.0390	0.1299
Ru	0.0141	(0.0173)		0.0145	(0.0167)		<DL	<DL		0.0653	0.2178
Sb	<DL	<DL		<DL	<DL		<DL	<DL		0.1634	0.5446
Se	<DL UJ	<DL		<DL	<DL		<DL	<DL		0.0875	0.2915
Si	0.0277 UJ	0.0296	7.0%	0.0343	0.0364	5.9%	0.0070	(0.0078)		0.0326	0.1086
Sr	0.0219	0.0228	4.0%	0.0223	0.0229	2.8%	(0.0000)	<DL		0.0003	0.0010
Te	(0.0012)	<DL		(0.0011)	<DL		<DL	<DL		0.0274	0.0915
Th	<DL	<DL		<DL	<DL		<DL	<DL		0.0840	0.2799
Ti	(0.0003)	<DL		(0.0003)	<DL		<DL	<DL		0.0073	0.0242
Tl	<DL UJ	<DL		<DL	<DL		<DL	<DL		1.5843	5.2809
U	0.0703	(0.1011)		0.0699	(0.0901)		<DL	<DL		0.6372	2.1242
V	(0.0002)	<DL		(0.0002)	<DL		<DL	<DL		0.0050	0.0167
Zn	0.0105	0.0118	12.1%	0.0114	0.0127	11.3%	(0.0001)	(0.0012)		0.0038	0.0127
Zr	(0.0003) J	<DL		(0.0004)	<DL		<DL	<DL		0.0056	0.0187
Bi	1.7093			1.7433							

* Methods blank - average sample weight used to calculate wt%.

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C.J. Surpell

TABLE 10.5: SST Core 9, Segment 5 Acid Leach ICP (Cont'd)

	90-1276a1 90-1276a2 Average	RPD	Spike Added	90-1276a3 1.00 Spike+ Sample	90-1276a3 5.00 Spike+ Sample	<Sample ID> <Dilution> % Dif	% Rec	90-1276a4 1.00 Spike Control	90-1276a4 5.00 Spike Control	% Dif	Spike STD	% rec
	(Wt %)		(Wt %)	(Wt %)	(Wt %)			(ug/mL)	(ug/mL)		(ug/mL)	
Ag	N/A			<DL	<DL							
Al	0.0124	26.2%		0.0107	(0.0092)							
As	N/A		0.0472	0.0411	0.0499	21.6%	87.0%	16.7	19.4	15.9%	20.0	83.5%
B	0.0070	18.3%		(0.0078)	<DL							
Ba	0.0014	1.3%	0.0472	0.0481	0.0499	3.7%	99.0%	19.8	20.3	2.6%	20.0	99.1%
Be	N/A		0.0012	0.0011	0.0012	3.7%	95.1%	0.5	0.5	4.1%	0.5	94.6%
Ca	0.0488	3.5%		0.0500	0.0531	6.3%						
Cd	N/A		0.0012	<DL	<DL		172.3%	0.7	2.1	208.9%	0.5	138.0%
Ce	N/A			<DL	<DL							
Co	N/A		0.0118	(0.0118)	<DL		99.8%	4.4	6.8	56.2%	5.0	87.4%
Cr	0.0737	0.3%		0.0732	0.0752	2.7%						
Cu	0.0031	59.4%	0.0059	0.0078	0.0085	8.6%	80.4%	2.5	2.6	7.3%	2.5	98.6%
Dy	N/A			<DL	<DL							
Fe	1.6057	1.7%		1.6049	1.6844	5.0%						
K	0.0230	2.9%		(0.0218)	<DL							
La	0.0004	9.8%		(0.0004)	<DL							
Li	N/A			<DL	<DL							
Mg	0.0128	2.2%		0.0129	0.0137	6.5%						
Mn	0.0050	0.6%	0.0118	0.0167	0.0171	2.8%	99.0%	5.0	5.1	2.5%	5.0	100.0%
Mo	N/A			<DL	<DL							
Na	9.8732	1.9%		9.9430	10.4544	5.1%						
Nd	N/A			<DL	<DL							
Ni	0.0022	15.6%	0.0118	0.0136	0.0138	1.5%	96.0%	4.9	5.1	2.8%	5.0	98.7%
P	1.6007	2.4%		1.6124	1.7968	11.4%						
Pb	0.0328	3.3%	0.0118	0.0440	0.0454	3.2%	95.5%	5.0	4.3	15.0%	5.0	100.2%
Re	0.0005	4.8%		(0.0005)	<DL							
Rh	N/A			<DL	<DL							
Ru	0.0143	2.4%		0.0144	(0.0164)							
Sb	N/A			(0.0111)	<DL							
Se	N/A		0.0472	0.0262	(0.0266)		55.5%	12.7	14.0	10.2%	20.0	63.7%
Si	0.0310	21.5%		0.1137	0.1160	2.0%						
Sr	0.0221	1.7%		0.0222	0.0230	3.7%						
Te	0.0011	12.3%		(0.0015)	<DL							
Th	N/A			<DL	<DL							
Ti	0.0003	0.5%		(0.0003)	<DL							
Tl	N/A		0.0472	(0.0601)	<DL		127.4%	25.7	5.3	79.2%	20.0	128.4%
U	0.0701	0.6%		0.0690	<DL							
V	0.0002	12.4%	0.0118	0.0118	0.0121	2.4%	98.6%	4.9	5.0	3.2%	5.0	97.5%
Zn	0.0110	8.5%	0.0118	0.0221	0.0241	9.0%	94.4%	4.9	5.7	16.3%	5.0	98.7%
Zr	0.0003	23.7%		(0.0003)	<DL							
Bi	1.7263	2.0%		1.7075								

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TABLE 10.6: SST Core 9, Composite Acid Leach ICP

Samp Log#:	90-1257a1	90-1257a1		90-1257a2	90-1257a2		90-1257a5	90-1257a5			
Dilution:	1.00	5.00		1.00	5.00		1.00	5.00			
Wt% Factor	0.02283	0.11417		0.02374	0.11868		0.02328	0.11638			
ICP Run #	1705	1731		1704	1729		1701	1726		DL	QL
	(Wt %)	(Wt %)	%Dif	(Wt %)	(Wt %)	%Dif	(Wt% *)	(Wt% *)	%Dif	(ug/mL)	(ug/mL)
Ag	0.0031	0.0032	2.6%	0.0030	0.0034	11.0%	<DL	<DL		0.0067	0.0224
Al	0.0334	0.0352	5.3%	0.0333	0.0347	4.2%	(0.0012)	<DL		0.0427	0.1422
As	<DL	<DL		<DL	<DL		<DL	<DL		0.0882	0.2940
B	(0.0043)	<DL		<DL	<DL		<DL	<DL		0.1553	0.5175
Ba	0.0012	0.0013	7.5%	0.0012	0.0012	0.9%	<DL	<DL		0.0017	0.0055
Be	<DL	<DL		<DL	<DL		<DL	<DL		0.0002	0.0007
Ca	0.0599	0.0644	7.5%	0.0644	0.0684	6.2%	0.0143	0.0154	7.2%	0.0004	0.0015
Cd	<DL UJ	<DL		<DL	<DL		<DL	<DL		0.1248	0.4159
Ce	(0.0022)	<DL		<DL	<DL		<DL	<DL		0.0945	0.3151
Co	<DL	<DL		<DL	<DL		<DL	<DL		0.2179	0.7265
Cr	0.0720	0.0762	5.8%	0.0720	0.0755	4.9%	<DL	<DL		0.0091	0.0304
Cu	0.0043	0.0046	6.8%	0.0043	0.0046	7.8%	(0.0002)	<DL		0.0031	0.0102
Dy	<DL	<DL		<DL	<DL		<DL	<DL		0.0039	0.0130
Fe	1.4661	1.5691	7.0%	1.4658	1.5562	6.2%	0.0006	<DL		0.0034	0.0114
K	(0.0264)	<DL		(0.0277)	<DL		<DL	<DL		0.4180	1.3933
La	0.0015	(0.0016)		0.0015	(0.0011)		<DL	<DL		0.0086	0.0288
Li	<DL	<DL		<DL	<DL		<DL	<DL		0.0047	0.0157
Mg	0.0156	0.0167	7.4%	0.0161	0.0171	6.5%	0.0029	0.0031	6.7%	0.0003	0.0010
Mn	0.0050	0.0053	6.0%	0.0051	0.0053	4.8%	<DL	<DL		0.0014	0.0046
Mo	<DL	<DL		<DL	<DL		<DL	<DL		0.0170	0.0566
Na	9.3841	9.9451	6.0%	9.4095	9.8582	4.8%	(0.0056)	<DL		0.1638	0.5461
Nd	<DL	<DL		<DL	<DL		<DL	<DL		0.0440	0.1466
Ni	0.0017	(0.0022)		0.0016	(0.0021)		<DL	<DL		0.0100	0.0332
P	1.4726	1.6281	10.6%	1.4762	1.6095	9.0%	<DL	<DL		0.2051	0.6836
Pb	0.0277	0.0306	10.4%	0.0278	0.0316	13.6%	<DL	<DL		0.0301	0.1002
Re	(0.0006)	<DL		(0.0006)	<DL		<DL	<DL		0.0094	0.0312
Rh	<DL	<DL		<DL	<DL		<DL	<DL		0.0390	0.1299
Ru	0.0140	(0.0148)		0.0138	(0.0145)		<DL	<DL		0.0653	0.2178
Sb	<DL	<DL		<DL	<DL		<DL	<DL		0.1634	0.5446
Se	<DL UJ	<DL		<DL	<DL		<DL	<DL		0.0875	0.2915
Si	0.0693 J	0.0691	0.3%	0.0357	0.0366	2.4%	0.0040	<DL		0.0326	0.1086
Sr	0.0174	0.0183	4.9%	0.0175	0.0182	4.0%	0.0000	(0.0001)		0.0003	0.0010
Te	(0.0015) J	<DL		(0.0011)	<DL		<DL	<DL		0.0274	0.0915
Th	<DL	<DL		<DL	<DL		<DL	<DL		0.0840	0.2799
Ti	0.0007	(0.0010)		0.0007	(0.0010)		<DL	<DL		0.0073	0.0242
Tl	<DL UJ	<DL		<DL	<DL		<DL	<DL		1.5843	5.2809
U	0.0617	<DL		0.0602	<DL		<DL	<DL		0.6372	2.1242
V	(0.0002)	<DL		(0.0002)	<DL		<DL	<DL		0.0050	0.0167
Zn	0.0053	0.0066	24.8%	0.0053	0.0066	25.3%	(0.0001)	0.0018		0.0038	0.0127
Zr	(0.0004)	<DL		(0.0004)	<DL		<DL	<DL		0.0056	0.0187
Bi	1.6463			1.6240							

* Methods blank - average sample weight used to calculate wt%.

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1-4-91 C.J. Sumpter

TABLE 10.6: SST Core 9, Composite Acid Leach ICP (Cont'd)

	90-1257a1 90-1257a2 Average		Spike Added	90-1257a3 1.00 Spike+ Sample	90-1257a3 5.00 Spike+ Sample	<Sample ID> <Dilution> % Dif	% Rec	90-1257a4 1.00 Spike Control	90-1257a4 5.00 Spike Control	% Dif	Spike STD	% rec
	(Wt %)	RPD	(Wt %)	(Wt %)	(Wt %)			(ug/mL)	(ug/mL)		(ug/mL)	
Ag	0.0031	2.9%		0.0031	0.0039	28.8%						
Al	0.0334	0.4%		0.0346	0.0401	15.9%						
As	N/A		0.0525	0.0471	0.0587	24.7%	89.6%	18.3	19.5	6.2%	20.0	91.7%
B	N/A			(0.0059)	<DL							
Ba	0.0012	2.7%	0.0525	0.0530	0.0580	9.4%	98.6%	20.1	20.1	0.3%	20.0	100.3%
Be	N/A		0.0013	0.0012	0.0014	12.9%	94.3%	0.5	0.5	1.6%	0.5	95.7%
Ca	0.0622	7.2%		0.0692	0.0775	12.1%						
Cd	N/A		0.0013	<DL	<DL		159.7%	0.7			0.5	136.0%
Ce	N/A			<DL	<DL							
Co	N/A		0.0131	(0.0105)	<DL		80.0%	3.6	3.1	14.2%	5.0	71.4%
Cr	0.0720	0.1%		0.0722	0.0817	13.1%						
Cu	0.0043	0.3%	0.0066	0.0107	0.0124	15.6%	97.6%	2.5	2.6	3.4%	2.5	99.9%
Dy	N/A			<DL	<DL							
Fe	1.4659	0.0%		1.4730	1.6680	13.2%						
K	0.0270	4.6%		(0.0239)	<DL							
La	0.0015	0.8%		0.0014	(0.0024)							
Li	N/A			<DL	<DL							
Mg	0.0158	3.0%		0.0163	0.0186	13.8%						
Mn	0.0051	0.6%	0.0131	0.0179	0.0202	12.9%	97.9%	5.0	5.1	1.6%	5.0	100.7%
Mo	N/A			(0.0005)	<DL							
Na	9.3968	0.3%		9.4249	10.3125	9.4%						
Nd	N/A			<DL	<DL							
Ni	0.0017	1.5%	0.0131	0.0143	0.0175	22.1%	96.3%	5.0	5.2	5.4%	5.0	99.6%
P	1.4744	0.2%		1.4967	1.6753	11.9%						
Pb	0.0278	0.2%	0.0131	0.0406	0.0489	20.5%	97.9%	4.7	4.5	4.2%	5.0	94.1%
Re	0.0006	10.5%		(0.0005)	<DL							
Rh	N/A			<DL	<DL							
Ru	0.0139	1.2%		0.0137	(0.0175)							
Sb	N/A			(0.0110)	(0.0286)							
Se	N/A		0.0525	0.0289	0.0384	33.2%	54.9%	12.7	14.5	14.3%	20.0	63.4%
Si	0.0525	63.9%		0.2065	0.2273	10.1%						
Sr	0.0174	0.2%		0.0175	0.0192	10.0%						
Te	0.0013	28.6%		(0.0015)	(0.0052)							
Th	N/A			<DL	<DL							
Ti	0.0007	0.6%		0.0007	(0.0013)							
Tl	N/A		0.0525	<DL	(0.2100)		60.1%	11.5	54.4	372.2%	20.0	57.6%
U	0.0610	2.5%		0.0609	(0.0959)							
V	0.0002	6.5%	0.0131	0.0130	0.0146	12.3%	97.6%	4.9	4.9	0.6%	5.0	98.3%
Zn	0.0053	0.3%	0.0131	0.0181	0.0220	21.4%	97.9%	5.0	5.8	16.6%	5.0	99.7%
Zr	0.0004	4.5%		0.0007	(0.0008)							
Bi	1.6352	1.4%		1.6430								

10/23/90

TABLE 10.7: SST Core 9, Composite Water Leach ICP

Samp Log#:	90-1257c1	90-1257c1		90-1257c2	90-1257c2		90-1257c5					
Dilution:	2.00	10.00		2.00	10.00		2.00					
Wt% Fctr:	0.01963	0.09815		0.01990	0.09948		0.01974	0.09868			90-1257c1 90-1257c2	
ICP Run#:	1858	1851		1857	1850		1856	1849	DL	QL	Average	
	(Wt %)	(Wt %)	%Dif	(Wt %)	(Wt %)	%Dif	(Wt% *)	(Wt% *)	(ug/mL)	(ug/mL)	(Wt %)	RPD
Ag	(0.0004) R	<DL		(0.0004)	<DL		<DL	<DL	0.0181	0.0603	0.0004	0.7%
Al	(0.0007)	<DL		<DL	<DL		<DL	<DL	0.0348	0.1160	N/A	
As	<DL	<DL		<DL	<DL		<DL	<DL	0.0805	0.2684	N/A	
B	<DL	<DL		(0.0020)	<DL		<DL	<DL	0.0670	0.2232	N/A	
Ba	<DL	<DL		<DL	<DL		<DL	<DL	0.0041	0.0138	N/A	
Be	<DL	<DL		<DL	<DL		<DL	<DL	0.0002	0.0006	N/A	
Ca	0.0009	0.0017	84.7%	0.0018	0.0029	58.5%	0.0008	0.0018	0.0009	0.0031	0.0014	68.5%
Cd	<DL	<DL		<DL	<DL		<DL	<DL	0.0071	0.0236	N/A	
Ce	<DL	<DL		<DL	<DL		<DL	<DL	0.2593	0.8642	N/A	
Co	<DL	<DL		<DL	<DL		<DL	<DL	0.5078	1.6928	N/A	
Cr	0.0050	(0.0053)		0.0052	(0.0055)		<DL	<DL	0.0316	0.1055	0.0051	3.6%
Cu	<DL	<DL		<DL	<DL		<DL	<DL	0.0226	0.0753	N/A	
Dy	<DL	<DL		<DL	<DL		<DL	<DL	0.0179	0.0595	N/A	
Fe	0.0025	(0.0021)		0.0049	0.0042	13.4%	<DL	<DL	0.0090	0.0300	0.0037	63.8%
K	(0.0228)	<DL		(0.0230)	<DL		<DL	<DL	0.6178	2.0592	0.0229	0.8%
La	<DL	<DL		<DL	<DL		<DL	<DL	0.0233	0.0775	N/A	
Li	<DL	<DL		<DL	<DL		<DL	<DL	0.0106	0.0355	N/A	
Mg	0.0003	0.0003	7.9%	0.0004	0.0005	6.0%	0.0002	0.0003	0.0007	0.0024	0.0004	44.2%
Mn	<DL	<DL		<DL	<DL		<DL	<DL	0.0017	0.0057	N/A	
Mo	(0.0003)	<DL		(0.0003)	<DL		<DL	<DL	0.0078	0.0260	0.0003	7.0%
Na	9.3689	9.3573	0.1%	9.5261	9.4196	1.1%	<DL	<DL	0.1149	0.3828	9.4475	1.7%
Nd	<DL	<DL		<DL	<DL		<DL	<DL	0.1118	0.3726	N/A	
Ni	<DL	<DL		<DL	<DL		<DL	<DL	0.0244	0.0812	N/A	
P	0.7452	0.7362	1.2%	0.8042	0.7788	3.2%	<DL	<DL	0.3559	1.1862	0.7747	7.6%
Pb	<DL	<DL		<DL	<DL		<DL	<DL	0.0766	0.2553	N/A	
Re	<DL	<DL		<DL	<DL		<DL	<DL	0.0193	0.0642	N/A	
Rh	<DL	<DL		<DL	<DL		<DL	<DL	0.1440	0.4801	N/A	
Ru	<DL	<DL		<DL	<DL		<DL	<DL	0.0690	0.2300	N/A	
Sb	<DL	<DL		<DL	<DL		<DL	<DL	0.1212	0.4039	N/A	
Se	<DL	<DL		<DL	<DL		<DL	<DL	0.0875	0.2916	N/A	
Si	0.0352	0.0314	10.9%	0.0576	0.0534	7.3%	<DL	<DL	0.0637	0.2124	0.0464	48.3%
Sr	<DL	<DL		(0.0000)	<DL		<DL	<DL	0.0014	0.0048	N/A	
Te	<DL	<DL		<DL	<DL		<DL	<DL	0.0625	0.2082	N/A	
Th	<DL	<DL		<DL	<DL		<DL	<DL	0.1891	0.6304	N/A	
Ti	<DL	<DL		<DL	<DL		<DL	<DL	0.0121	0.0403	N/A	
Tl	<DL	<DL		<DL	<DL		<DL	<DL	3.9597	13.1990	N/A	
U	<DL	<DL		<DL	<DL		<DL	<DL	1.6450	5.4834	N/A	
V	<DL	<DL		<DL	<DL		<DL	<DL	0.0107	0.0357	N/A	
Zn	<DL	<DL		<DL	<DL		<DL	<DL	0.0063	0.0210	N/A	
Zr	<DL	<DL		<DL	<DL		<DL	<DL	0.0114	0.0381	N/A	
Bi	N/A			N/A			N/A				N/A	

* Methods blank - average sample weight used to calculate wt%.

10/18/90

1-4-91
CJ Simpell

TABLE 11.1: SST Core 9, Segment 3 Water Leach Anion Analysis

Sample: 90-1275
05/05/90

	B1 (mg/kg)	B2 (mg/kg)	RPD	-----Spike*Control--(a)- True (ug/mL)	B4---> (ug/mL)	B3 Spk (mg/kg)	B3 (mg/kg)	% Spk Rec	B5 (c) (mg/kg)
F	1940 J	1960	1.0%	50	53	519	2440	94.4%	<20
Cl	1200 J	1270	5.7%	100	106	1040	2270	99.5%	<20
NO2	10200	10600	3.8%	1000	980	9590	20300	103.2%	<40
NO3	172000	175000	1.7%	5000	5050	49400	233000	120.4%	<40
PO4	24500	24800	1.2%	1500	1550	15200	38200	89.1%	<40
SO4	11100	11300	1.8%	500	520	5090	16500	104.1%	<40
TIC	717 R	699	2.5%						<100
TOC	586 R	579	1.2%						<100

(a) The spike's measured concentration has been used to calculate the quantity of spike added in mg/kg.
(b) The % spike recovery is valid only if the spike level is over 20% of the sample's base value.
(c) The average Wt-gm of Sample 1 & 2 is used to calculate blank in mg/kg.

1-4-91
G.S. Simpely

TABLE 11.2: SST Core 9, Segment 5 Water Leach Anion Analysis

Sample: 90-1276
05/05/90

	B1 (mg/kg)	B2 (mg/kg)	RPD	-----Spike*Control--(a)- True (ug/mL)	B4---> (ug/mL)	B3 Spk (mg/kg)	B3 (mg/kg)	% Spk Rec	B5 (c) (mg/kg)
F	1960	1990	1.5%	50	53	523	2520	104.2%	<20
Cl	1320	1310	0.8%	100	98	968	2250	96.6%	<20
NO2	3350	3390	1.2%	1000	1010	9970	13300	99.6%	<39
NO3	197000	199000	1.0%	5000	5100	50400	250000	103.2%	<39
PO4	24500	24600	0.4%	1500	1520	15000	38700	94.3%	<39
SO4	11500	11600	0.9%	500	514	5080	16800	103.3%	<39
TIC	311 R	289	7.3%						<99
TOC	496 R	498	0.4%						<99

(a) The spike's measured concentration has been used to calculate the quantity of spike added in mg/kg.
(b) The % spike recovery is valid only if the spike level is over 20% of the sample's base value.
(c) The average Wt-gm of Sample 1 & 2 is used to calculate blank in mg/kg.

1-4-91
CS. Simpkins

TABLE 11.3: SST Core 9, Composite Water Leach Anion Analysis

Sample: 90-1257
04/11/90

	C1 (mg/kg)	C2 (mg/kg)	RPD	-----Spike*Control--(a)- True (ug/mL)	C4---> (ug/mL)	C3 Spk (mg/kg)	C3 (mg/kg)	% Spk Rec	C5 (c) (mg/kg)
F	1970	2040	3.5%	50	54	544	2540	98.3%	<20
Cl	1230	1280	4.0%	100	98	988	2320	107.8%	<20
NO2	9030	8870	1.8%	1000	1020	10300	19200	99.5%	<39
NO3	187000 U	189000	1.1%	5000	5140	51800	252000	123.6%	109
PO4	24200	26200	7.9%	1500	1490	15000	37600	82.7%	<39
SO4	11000	11100	0.9%	500	504	5080	16300	103.3%	<39
TIC	618 R	627	1.4%						<99
TOC	304 R	298	2.0%						<99

(a) The spike's measured concentration has been used to calculate the quantity of spike added in mg/kg.
(b) The % spike recovery is valid only if the spike level is over 20% of the sample's base value.
(c) The average Wt-gm of Sample 1 & 2 is used to calculate blank in mg/kg.

1-4-91
G. Surpell

TABLE 12: SST Core 9, Other Inorganic Results

Analysis	Sample Number	mg/kg
AA - As	90-1257-B-1	<2
	-B-2	<2
	-B5	<2
- Se	90-1257-B-1	(a)
	-B-2	(a)
	-B-5	<2
-Pb	90-1257-B-1	253
	-B-2	265
	-B-5	<2
Chromium (VI)	90-1257-C-1	36.4 R
	-C-2	36.8
	-C-5	0.0
Mercury	90-1257-D-1	0.70 J
	-D-2	0.70
	-D-3	0.78
	-D-5	<0.04
Ammonia	90-1257-C-1	274.8
	-C-2	261.0
	-C-5	17.1

(a) Analyte suppression due to matrix effect observed on final dilution runs.

1-4-91
A.S. Simpely

RCRA LEVEL C QC

Name C.J. Simiele Date 1-3-91

QC Check: Holding Time

COMMENTS: ICP fusion prep analyses, holding time of six months was exceeded by three months.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-3-91

QC Check: Calibration

COMMENTS: ICP(f) initial and continuing calibration standards are out of ±10% control limits for (ICP# 1647) for TL (%Rec=85%), associated samples include: 90-0300-A-1 and 90-0301-A-1. Calibration frequency met.

ACTION: Qualify associated samples as per OSM guidelines.

sample #	constituent	value/qual
90-0300-A-1	TL	UJ
90-0301-A-1	TL	✓

sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-3-91

QC Check: Analytical Blank

COMMENTS: ICP(f) contaminants detected in two method blanks (ICP Run # 11650 & 11659) for Ca. Associated samples for # 11650 include 90-0304-A-1 and 90-0305-A-1 and for # 11659 include 90-1255-A-1 & 90-1256-A-1.

ACTION: Qualify associated samples as per OSM guidelines.

sample #	constituent	value/qual
90-0304-A-1	Ca	U
90-0305-A-1	↓	↓
90-1255-A-1	↓	↓
90-1256-A-1	↓	↓

sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-3-91

QC Check: LCS

COMMENTS: No LCS data provided with data package.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-3-91

QC Check: ICS

COMMENTS: No ICS data provided with data package.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-3-91

QC Check: Matrix Spike

COMMENTS: No matrix spikes run with ICP(f) analyses

ACTION: Qualify associated data as per OSM guidelines.

sample #	constituent	value/qual
90-0300-A-1	All ICP(f) elements analyzed.	R
90-0301-A-1		
90-0304-A-1		
90-0305-A-1		
90-1255-A-1		
90-1256-A-1		

sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-3-91

QC Check: Duplicate Analyses

COMMENTS: ICP(f) duplicate analyses RPD's out of ±20% control limits for: 90-0300-A-1 for Zn (21%); 90-0305-A-1 for Mg (22%); ~~90-0305-A-1~~ 90-1255-A-1 for Ag (24%) and Ba (22%) and Zn (24%).

ACTION: Qualify associated samples as per OSM guidelines.

sample #	constituent	value/qual
90-0300-A-1	Zn	J
90-0305-A-1	Mg	↓
90-1255-A-1	Ag	↓
↓	Ba	↓
	Zn	↓

sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-3-91

QC Check: Holding Time

COMMENTS: ICP acid digestion preparation analyses holding time of six months was exceeded by three months.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Calibration

COMMENTS: ICP(A) initial and continuing calibration standards are within ±10% control limits. Calibration frequency met.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-3-91

QC Check: Analytical Blank

COMMENTS: Possible Contaminants detected in ICP(A) & method blank #1708 and associated sample 90-1275-A-1 for Al, Ca & Zn; #1717 and associated sample 90-1276-A-1 for Si.

ACTION: Qualify associated samples as per OSM guidelines.

sample #	constituent	value/qual
90-1275-A-1	Al	u
↓	Ca	↓
↓	Zn	↓
90-1276-A-1	Si	u

sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-3-91

QC Check: LCS

COMMENTS: No LCS data provided with data package.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-3-91

QC Check: ICS

COMMENTS: No ICS data provided with data package.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-3-91

QC Check: Matrix Spike

COMMENTS: ICP(a) matrix spike %Rec is out of ±25% Control limits for sample#: 90-1275-A-3 for Cd, Se & TL; 90-1276-A-3 for Cd, Se & TL; 90-1257-A-3 for Cd, Se & TL.

ACTION: Qualify associated samples as per OSM guidelines.

sample #	constituent	value/qual
90-1275-A-3	Cd	UJ
90-1276-A-3	Se	
90-1257-A-3	TL	

sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-3-91

QC Check: Duplicate Analyses

COMMENTS: ICP(a) duplicate analyses RPD is out of ±20% control limits for sample: 90-1275-A-1 for Te (24%); 90-1276-A-1 for Al (26%), Cu (59%), Si (22%), Zr (24%); 90-1257-A-1 for Si (64%) & Te (29%).

ACTION: Qualify associated samples as per OSM guidelines.

sample #	constituent	value/qual
90-1275-A-1	Te	J
90-1276-A-1	Al	J
↓	Cu	↓
↓	Si	↓
↓	Zr	↓
90-1257-A-1	Si	J
↓	Te	↓

sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-3-91

QC Check: Holding Time

COMMENTS: ICP (water leach preparation) analyses holding time of six months was exceeded by three months.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Calibration

COMMENTS: ICP (W) initial and continuing calibration standards are within ±10% control limits. Calibration frequency met.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-3-91

QC Check: Analytical Blank

COMMENTS: Possible Contaminants detected in ICP(W) method blank (#1856) and associated sample #90-1257-C-1 for Ca & Mg.

ACTION: Qualify associated samples as per OSM guidelines.

sample #	constituent	value/qual
90-1257-C-1	Mg	U
	Ca	

sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-3-91

QC Check: LCS

COMMENTS: No LCS data provided with data package.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-3-91

QC Check: ICS

COMMENTS: No ICS data provided with data package.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-3-91

QC Check: Matrix Spike

COMMENTS: No matrix spike analyses preformed for ~~on~~ ICP(W).

ACTION: Qualify associated samples as per OSM guidelines.

sample #	constituent	value/qual
90-1257-C-1	(All ICP(W) elements)	R

sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-3-91

QC Check: Duplicate Analyses

COMMENTS: ICP(W) duplicate analyses RPD's are out of ±20% control limits on sample # 90-1257-C-1 for Ca (69%), Fe (64%), Mg (44%), and Si (48%).

ACTION: Qualify associated samples as per OSM guidelines.

sample #	constituent	value/qual
90-1257-C-1	Ca	J
	Fe	
	Mg	
	Si	

sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Holding Time

COMMENTS: IC analyses holding time of 2 days for NO_2, NO_3 and 28 days for all other anions were exceeded by 133 and 107 days, respectively.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Calibration

COMMENTS: IC analyses calibration standards out of ±10% control limits for one check standard. Affected anions include F & Cl, associated samples 90-12~~57~~75WS-B-1 ~~and 90-12~~ WS Calibration frequency met.

ACTION: Qualify associated samples as per OSM guidelines.

sample #	constituent	value/qual
90-12~~57~~75-B-1 WS	F	J
	Cl	L

sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Analytical Blank

COMMENTS: IC analyses ~~m~~ possible contaminants for method blank and associated sample 90-1257-C-1, for NO_3. No D.L. provided with IC analyses.

ACTION: Qualify associated samples as per OSM guidelines.

sample #	constituent	value/qual
90-1257-C-1	NO_3	U

sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: LCS

COMMENTS: No LCS data provided with data package.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Matrix Spike

COMMENTS: 1C Matrix Spike % Rec's are all within ±25% control limits.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Duplicate Analyses

COMMENTS: IC analyses duplicate RPD's are all within ±20% control limits.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Holding Time

COMMENTS: TIC/TOC holding time of 28 days was exceeded by 128 days.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-90

QC Check: Calibration

COMMENTS: All TIC/TOC initial and continuing calibration standards are within ± 10% control limits. Calibration frequency was met.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Analytical Blank

COMMENTS: All TOC/TIC method blanks appear to be contaminant free. NO D.L. provide for TOC/TIC analyses.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: LCS

COMMENTS: No LCS data provided with data package.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Matrix Spike

COMMENTS: No matrix spikes analyzed with TOC/TIC analyses.

ACTION: Qualify associated samples as per OSM guidelines.

sample #	constituent	value/qual
90-1257-C-1	TIC	R
↓	TOC	↓
90-1275-C-1	TIC	
↓	TOC	
90-1276-C-1	TIC	
↓	TOC	

sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Duplicate Analyses

COMMENTS: All TIC/TOC duplicate analyses RPD's are within ±20% control limits.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Holding Time

COMMENTS: A.A. analyses holding time of Six months was exceeded by 4 months.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC check: Calibration

COMMENTS: All A.A (As, Sb & Pb) analyses initial and continuing calibration standards are within ± 10% control limits. Calibration frequencies met.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Analytical Blank

COMMENTS: All A.A (As, Sb & Pb) analyses method blanks and associated samples appear to be contaminant free. No D.L. information provided with data package for A.A. analyses.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: LCS

COMMENTS: No LCS data provided with data package.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Matrix Spike

COMMENTS: All A.A (As, Sb & Pb) analyses matrix spikes are within ± 25% control limits.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Duplicate Analyses

COMMENTS: All A.A. (As, Sb & Pb) analyses duplicate RPD's are within ± 20% control limits.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Holding Time

COMMENTS: Cr(VI) analyses holding time of 24 HRS was exceeded by 181 days.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Calibration

COMMENTS: Cr(VI) had a calibration check standard out of ±10% control limits (%Rec = 84%).

ACTION: Qualify associated sample as per QSM guidelines.

sample #	constituent	value/qual
90-1257-C-1	Cr(VI)	J

sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Analytical Blank

COMMENTS: No contaminants detected in Cr(VI) method blank and associated sample.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: LCS

COMMENTS: No LCS data provided with data package.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Matrix Spike

COMMENTS: No matrix spike analyses was preformed for Cr(VI). (Insufficiant sample available.)

ACTION: Qualify associated samples as per OSM guidelines.

sample #	constituent	value/qual	sample #	constituent	value/qual
90-1257-C-1	Cr(VI)	R			

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Duplicate Analyses

COMMENTS: Cr(VI) duplicate analyses RPD was within ±20% control limits

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Holding Time

COMMENTS: NH_3 holding time of 28 days was exceeded by 154 days.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Calibration

COMMENTS: All NH_3 initial and continuing calibration standards are within ±10% control limits. Calibration frequency met.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Analytical Blank

COMMENTS: NH_3 method blank and associated samples appear to be contaminant free. No D.L data provided with NH_3 analyses.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C. J. Simiele Date 1-4-91

QC Check: LCS

COMMENTS: No LCS data provided with data package.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Matrix Spike

COMMENTS: All NH_3 matrix spike % Rec's are within ±25% control limits.

ACTION: None.

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Duplicate Analyses

COMMENTS: All NH_3 duplicate analyses RPD's are within ± 20% control limits.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Holding Time

COMMENTS: Hg holding time of 28days was exceeded by 147days.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Calibration

COMMENTS: Hg initial and continuing calibration standards were analyzed but, not true values were provided. Hg calibration curve Corr. Coefficient = Ø.994 which is <, Ø.995 required.

ACTION: Qualify associated samples as per OSH guidelines.

sample #	constituent	value/qual	sample #	constituent	value/qual
90-1257-D-1	Hg	J			

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Analytical Blank

COMMENTS: Hg method blank and associated sample are contaminant free.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: LCS

COMMENTS: No LCS data provided with data package.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Matrix Spike

COMMENTS: Hg matrix spike %Rec is % out of ±25% control limits (%Rec=41%).

ACTION: Qualify associated samples as per OSM guidelines

sample #	constituent	value/qual
90-1257-D-1	Hg	J

sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 1-4-91

QC Check: Duplicate Analyses

COMMENTS: Hg duplicate analyses RPD is within ±20% control limits.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___