Sample Name		SL-001-SA8S-SS-0.0-0.5	SL-001-SA8S-SB-4.0-5.0	SL-003-SA8S-SS-0.0-0.5	SL-005-SA8S-SS-0.0-0.5	SL-005-SA8S-SB-3.5-4.5	SL-007-SA8S-SS-0.0-0.5	SL-007-SA8S-SB-4.0-5.0
Sample Date		09/29/2011	11/18/2011	09/29/2011	09/29/2011	11/15/2011	09/29/2011	11/15/2011
SDG		DE258	DE289	DE258	DE258	DE287	DE258	DE287
Start Depth		0	4	0	0	3.5	0	4
End Depth		0.5	5	0.5	0.5	4.5	0.5	5
Chemical Name	Unit							
Fluoride	mg/kg	1.1 UJ Q	1.1 U	1.0 UJ Q	1.0 UJ Q	8.8 J Q	1.1 UJ Q	5.1 J Q
Aluminum	mg/kg	25500	16100	17900	11100	14700	11700	13600
Iron	mg/kg	37700	17700	20900	11100	18800 J Q	13600	21700 J Q
Lead	mg/kg	18.2 J A	7.63	20.8 J A	6.61 J A	9.50 J Q, A	10.9 J A	10.8 J Q, A
Lithium	mg/kg	25.3	17.5	18.5	12.7	15	15.3	16.1
Magnesium	mg/kg	7650	5600 J E	6100	3930	6040	4330	5530
Manganese	mg/kg	337	334	278	167	305	180	382
Mercury	mg/kg	0.0132 J Z	0.105 U	0.0184 J Z	0.0987 U	0.0188 J Z	0.0161 J Z	0.0098 J Z
Molybdenum	mg/kg	0.461 J Q	0.110 U B	0.322 J Q	0.136 J Q	0.111 U B	0.277 J Q	0.112 U B
Nickel	mg/kg	25.7 J Q	15.2	17.1 J Q	9.79 J Q	17.5 J Q, A	13.2 J Q	23.5 J Q, A
Potassium	mg/kg	5170 J Q	3220 J Q	3130 J Q	1460 J Q	2780 J Q	1640 J Q	2580 J Q
Silver	mg/kg	0.102 UJ B, Q	0.110 U	0.101 UJ B, Q	0.102 U	0.111 U	0.104 U	0.112 U
Sodium	mg/kg	118	139 J E	121	120	1030	117	242
Strontium	mg/kg	125	230	156	182	256	142	219
Thallium	mg/kg	0.420 J Q	0.284	0.257 J Q	0.123 J Q	0.22	0.176 J Q	0.244
Tin	mg/kg	10.5 U B	11.0 U B	10.2 U B	10.2 U B	10.8 U B	10.4 U B	11.2 U B
Titanium	mg/kg	1350	871	832	542	620	674	543
Antimony	mg/kg	0.225 J Q	0.219 U	0.206 J Q	0.123 J Q, Z	0.0854 J Q, Z	0.140 J Q, Z	0.103 J Q, Z
Arsenic	mg/kg	8.60 J E, Q	4.88	6.79 J E, Q	4.49 J E, Q	6.98 J Q	4.87 J E, Q	6.29 J Q
Beryllium	mg/kg	0.853	0.66	0.656	0.478	0.568	0.418	0.625
Barium	mg/kg	138 J A	88.9	93.2 J A	82.4 J A	114 J E, A	88.6 J A	84.3 J E, A
Boron	mg/kg	14.5	9.1	11.2	8.92	17.6	9.04	15.3
Cadmium	mg/kg	0.389 J Q	0.394	0.300 J Q	0.232 J Q	0.24	0.225 J Q	0.456
Chromium	mg/kg	47.4 J Q	35.3	29.9 J Q	23.8 J Q	28.5 J Q, A	23.8 J Q	30.7 J Q, A
Cobalt	mg/kg	12.2 J Q, A	8.59	9.60 J Q, A	4.85 J Q, A	8.89 J A	6.87 J Q, A	9.54 J A
Copper	mg/kg	23.5 J E, Q	12.7	18.8 J E, Q	9.34 J Q	14.9	12.6 J Q	15.1
Vanadium	mg/kg	86.2 J E	59.9	51.6 J E	37.4 J E	49.4 J A	38.5 J E	53.0 J A
Zinc	mg/kg	90.9	56.5	55.1	27.9	48.1	34.9	54.5
Zirconium	mg/kg	2.86 J Z	6.08	3.40 J Z	2.30 J Z	4.75 J Z	2.00 J Z	3.96 J Z
Calcium	mg/kg	76800	122000	144000	239000	161000	242000	172000
Phosphorus	mg/kg	638	420	452	228	349	279	282
Selenium	mg/kg	0.489	0.166 J Z	0.252 J Z	0.143 J Z	0.181 J Z	0.213 J Z	0.201 J Z
Chromium VI	mg/kg	0.42 J Z	0.35 J Z	0.41 J Z	1.4	1.1 U	2.2	1.2 U
Perchlorate (314.0)	ug/kg	31.8 U	33.6 U	31.0 U	30.8 U	33.7 U	31.4 U	34.6 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	5.7	10.6	3.3	2.7	10.9	4.4	13.4
pH	pH unit	7.43	8.77	7.81	8.13	9.23	8.31	8.7

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A7
Inorganic - Validated Data
HSA-8S

Sample Name		SL-008-SA8S-SS-0.0-0.5	SL-008-SA8S-SB-2.0-3.0	SL-009-SA8S-SS-0.0-0.5	SL-009-SA8S-SB-4.0-5.0	SL-009-SA8S-SB-7.0-8.0	SL-010-SA8S-SS-0.0-0.5	SL-010-SA8S-SB-4.0-5.0
Sample Date		09/30/2011	11/17/2011	09/30/2011	11/16/2011	11/16/2011	09/30/2011	11/16/2011
SDG		DE259	DE288	DE259	DE287	DE287	DE259	DE288
Start Depth		0	2	0	4	7	0	4
End Depth		0.5	3	0.5	5	8	0.5	5
Chemical Name	Unit							
Fluoride	mg/kg	--	1.1 U	1.1 U	2.8 J Q	2.5 J Q	1.1 U	1.5
Aluminum	mg/kg	23100	11100	21300	20800	10700	21800	26100
Iron	mg/kg	27000	19000	23000	29000 J Q	14500 J Q	25400	43200
Lead	mg/kg	21.9 J A	5.98 J E	9.34 J A	9.07 J Q, A	8.28 J Q, A	26.1 J A	16.7 J E
Lithium	mg/kg	21	9.8	27.1	31.1	15.7	21.7	34.1
Magnesium	mg/kg	7570	4330	6950	7210	4280	7290	9100
Manganese	mg/kg	386	325 J E	372	271	516	355	303 J E
Mercury	mg/kg	0.0414 J Z	0.107 U	0.104 U B	0.107 U	0.109 U	0.0308 J Z	0.113 U
Molybdenum	mg/kg	0.44	0.106 U B	0.13	0.113 U B	0.105 U B	0.302	0.595
Nickel	mg/kg	19.9 J A	11.7 J E, Q	12.6 J A	17.3 J Q, A	15.3 J Q, A	17.5 J A	25.0 J E, Q
Potassium	mg/kg	5660	2160 J Q	3680	3580 J Q	2270 J Q	5340	3920 J Q
Silver	mg/kg	0.0303 J Z	0.106 U	0.104 U	0.0229 J Z	0.0191 J Z	0.107 U	0.0281 J Z
Sodium	mg/kg	108	128	114	180	155	117	136
Strontium	mg/kg	108	212	121	100	166	134	93.1
Thallium	mg/kg	0.339	0.106 UJ E, B, Q	0.224	0.293	0.254	0.225	0.448 J E, Q
Tin	mg/kg	10.7 U B	10.8 U B	10.4 U B	11.0 U B	10.8 U B	10.7 U B	11.2 U B
Titanium	mg/kg	1020 J L	478	870	631	374	971	1080
Antimony	mg/kg	0.192 J Q, Z	0.120 J Q, E, Z	0.207 UJ Q	0.226 UJ Q	0.209 UJ Q	0.134 J Q, Z	0.196 J Q, E, Z
Arsenic	mg/kg	6.55 J Q	5.82 J E	4.53 J Q	5.31 J Q	5.06 J Q	5.85 J Q	11.4 J E
Beryllium	mg/kg	0.675 J Q	0.490 J E, Q	0.521 J Q	0.634	0.586	0.573 J Q	0.968 J E, Q
Barium	mg/kg	96.3 J A	60.0 J E	63.6 J A	67.4 J E, A	61.2 J E, A	76.3 J A	101 J E
Boron	mg/kg	12.2	7.42	8.16	13.5	10.2	12.1	5.00 J Z
Cadmium	mg/kg	0.295	0.285 J Q	0.212	0.355	0.322	0.31	0.196 J Q
Chromium	mg/kg	28.9 J Q, A	28.8 J E, Q	25.6 J Q, A	30.0 J Q, A	26.6 J Q, A	26.5 J Q, A	30.3 J E, Q
Cobalt	mg/kg	10.6 J A	5.53 J E, Q	5.78 J A	9.27 J A	8.41 J A	9.15 J A	12.8 J E, Q
Copper	mg/kg	21.0 J A	10.1 J E, Q	12.4 J A	17	9.74	17.2 J A	36.9 J E, Q
Vanadium	mg/kg	52.9 J A	36.5 J E	39.3 J A	41.8 J A	37.1 J A	44.7 J A	63.3 J E
Zinc	mg/kg	70.9 J A	34.7 J E, A	45.2 J A	47.1	42.3	57.3 J A	83.1 J E, A
Zirconium	mg/kg	4.12 J Z	5.48	3.48 J Z	6.59	3.53 J Z	4.23 J Z	7.71
Calcium	mg/kg	84200 J E	172000	122000 J E	79200	177000	107000 J E	66300
Phosphorus	mg/kg	588	328	424	461	346	507	374
Selenium	mg/kg	0.268 J Z	0.103 J Z	0.167 J Z	0.250 J Z	0.185 J Z	0.187 J Z	0.508
Chromium VI	mg/kg	0.69 J Z	0.24 J Z	0.62 J Z	1.1 U	0.24 J Z	1.1	0.73 J Z
Perchlorate (314.0)	ug/kg	32.2 U	32.6 U	31.7 U	34.2 U	32.6 U	32.2 U	34.5 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	6.7	7.9	5.3	12.4	8.1	6.7	13
pH	pH unit	7.59	8.47	7.83	8.65	8.75	7.88	7.65

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-010-SA8S-SB-8.5-9.5	SL-011-SA8S-SS-0.0-0.5	SL-011-SA8S-SB-4.0-5.0	SL-012-SA8S-SS-0.0-0.5	SL-012-SA8S-SB-4.0-5.0	SL-013-SA8S-SS-0.0-0.5	SL-013-SA8S-SB-4.0-5.0
Sample Date		11/16/2011	09/30/2011	11/17/2011	09/30/2011	11/18/2011	09/29/2011	11/14/2011
SDG		DE288	DE259	DE288	DE259	DE289	DE258	DE286
Start Depth		8.5	0	4	0	4	0	4
End Depth		9.5	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
Fluoride	mg/kg	1.8	1.1 U	1.2	1.1 U	2.8	1.0 UJ Q	1.3 J Q
Aluminum	mg/kg	22400	23400	12000	30400	17000	15200	16000
Iron	mg/kg	25100	26500	15100	36800	26700	21500	23500 J Q
Lead	mg/kg	20.7 J E	19.8 J A	6.52 J E	17.6 J A	7.95	13.9 J A	7.62 J Q, A
Lithium	mg/kg	28.1	21.3	11.4	31.2	18.4	25.1	26
Magnesium	mg/kg	7610	7330	4450	9210	5770 J E	5380	5360
Manganese	mg/kg	275 J E	356	302 J E	307	271	328	335
Mercury	mg/kg	0.114 U	0.0257 J Z	0.110 U	0.0329 J Z	0.106 U	0.0194 J Z	0.100 U
Molybdenum	mg/kg	0.568	0.431	0.108 U B	0.362	0.317	2.03 J Q	0.475
Nickel	mg/kg	25.2 J E, Q	16.2 J A	15.7 J E, Q	20.5 J A	16	17.5 J Q	18.0 J Q, A
Potassium	mg/kg	3190 J Q	5170	2090 J Q	5170	2800 J Q	3850 J Q	2560 J Q
Silver	mg/kg	0.0345 J Z	0.0405 J Z	0.108 U	0.0384 J Z	0.109 U	0.103 UJ B, Q	0.0203 J Z
Sodium	mg/kg	148	98.1 J Z	115	114	144 J E	72.2 J Z	79.9 J Z
Strontium	mg/kg	101	91.5	160	81.7	197	37.8	38.5
Thallium	mg/kg	0.389 J E, Q	0.257	0.248 J E, Q	0.342	0.321	0.351 J Q	0.295
Tin	mg/kg	11.1 U B	10.4 U B	11.0 U B	10.4 U B	10.9 U B	9.90 U B	10.6 U B
Titanium	mg/kg	649	1080	569	1490	711	1100	918
Antimony	mg/kg	0.182 J Q, E, Z	0.105 J Q, Z	0.105 J Q, E, Z	0.141 J Q, Z	0.106 J Z	0.149 J Q, Z	0.0798 J Q, Z
Arsenic	mg/kg	16.0 J E	5.57 J Q	6.01 J E	8.06 J Q	10.9	7.58 J E, Q	6.25 J Q
Beryllium	mg/kg	0.964 J E, Q	0.591 J Q	0.630 J E, Q	0.757 J Q	0.573	0.69	0.658
Barium	mg/kg	111 J E	74.7 J A	72.8 J E	116 J A	95.8	108 J A	97.4 J E, A
Boron	mg/kg	5.58	10.2	6.87	11.6	7.11	7.63	10.1
Cadmium	mg/kg	0.256 J Q	0.312	0.222 J Q	0.247	0.262	0.235 J Q	0.235
Chromium	mg/kg	29.8 J E, Q	30.1 J Q, A	38.9 J E, Q	32.0 J Q, A	33.5	25.8 J Q	24.0 J Q, A
Cobalt	mg/kg	13.5 J E, Q	8.24 J A	7.99 J E, Q	12.2 J A	9.46	8.91 J Q, A	9.23 J A
Copper	mg/kg	37.9 J E, Q	16.2 J A	10.9 J E, Q	21.7 J A	13.4	14.3 J Q	11.3
Vanadium	mg/kg	58.7 J E	51.5 J A	53.9 J E	64.7 J A	57.3	49.8 J E	44.4 J A
Zinc	mg/kg	114 J E, A	58.7 J A	45.9 J E, A	77.0 J A	54.5	82.8	62.3
Zirconium	mg/kg	8.05	3.21 J Z	5.16 J Z	3.28 J Z	5.71	1.71 J Z	3.77 J Z
Calcium	mg/kg	70600	70400 J E	129000	36200 J E	116000	35400	40700
Phosphorus	mg/kg	582	620	321	678	373	469	443
Selenium	mg/kg	0.234 J Z	0.259 J Z	0.0717 J Z	0.331 J Z	0.236 J Z	0.221 J Z	0.182 J Z
Chromium VI	mg/kg	0.48 J Z	1.1 U	1.4	1.1 U	0.48 J Z	1.0 U	0.43 J Z
Perchlorate (314.0)	ug/kg	34.6 U	31.9 U	33.4 U	32.0 U	33.7 U	30.9 U	32.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	13.2	6	10.1	6.3	10.9	2.9	7.3
pH	pH unit	8.11	7.67	8.6	7.72	8.72	8	7.82

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A7
Inorganic - Validated Data
HSA-8S

Sample Name		SL-014-SA8S-SS-0.0-0.5	SL-014-SA8S-SB-4.0-5.0	SL-014-SA8S-SB-7.0-8.0	SL-015-SA8S-SS-0.0-0.5	SL-015-SA8S-SB-4.0-5.0	SL-015-SA8S-SB-9.0-10.0	SL-016-SA8S-SS-0.0-0.5
Sample Date		09/29/2011	10/21/2011	10/21/2011	09/29/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DE258	DE277	DE277	DE258	DE277	DE277	DE259
Start Depth		0	4	7	0	4	9	0
End Depth		0.5	5	8	0.5	5	10	0.5
Chemical Name	Unit							
Fluoride	mg/kg	1.0 UJ Q	1.8 J Q	1.1 J Q	1.0 UJ Q	1.0 J Q, Z	1.8 J Q	1.1 U
Aluminum	mg/kg	21300	18400 J E	19000 J E	21000	18300 J E	21700 J E	22600
Iron	mg/kg	24200	25500	23500	23400	23200	25200	26200
Lead	mg/kg	14.9 J A	7.86 J Q, A	8.44 J Q, A	11.3 J A	7.59 J Q, A	9.03 J Q, A	14.4 J A
Lithium	mg/kg	23.9	24.6	23.6	22.6	23.2	24.4	21.6
Magnesium	mg/kg	6800	5750	5890	6720	5900	6540	6900
Manganese	mg/kg	402	366	398	451	433	375	462
Mercury	mg/kg	0.0138 J Z	0.106 U	0.108 U B	0.0074 J Z	0.105 U B	0.108 U	0.0294 J Z
Molybdenum	mg/kg	0.531 J Q	0.405	0.109 U B	0.491 J Q	0.385	0.381	0.574
Nickel	mg/kg	21.1 J Q	14.3 J A	15.7 J A	19.2 J Q	15.2 J A	16.2 J A	20.3 J A
Potassium	mg/kg	4610 J Q	2980 J Q	3260 J Q	4370 J Q	3310 J Q	3020 J Q	6450
Silver	mg/kg	0.0994 UJ B, Q	0.0205 J Z	0.0180 J Z	0.103 UJ B, Q	0.0154 J Z	0.0213 J Z	0.0519 J Z
Sodium	mg/kg	94.3 J Z	88.7 J Z	122	115	92.9 J Z	116	86.5 J Z
Strontium	mg/kg	73.1	62.5	107	101	72.6	97.7	28.9
Thallium	mg/kg	0.367 J Q	0.288	0.281	0.356 J Q	0.314	0.284	0.341
Tin	mg/kg	10.4 U B	10.6 U B	10.8 U B	10.2 U B	10.3 U B	11.2 U B	10.4 U B
Titanium	mg/kg	1050	964	963	1070	893	881	1220
Antimony	mg/kg	0.146 J Q, Z	0.0773 J Q, Z	0.113 J Q, Z	0.122 J Q, Z	0.208 UJ Q	0.104 J Q, Z	0.132 J Q, Z
Arsenic	mg/kg	6.92 J E, Q	6.54 J Q	5.73 J Q	6.44 J E, Q	5.76 J Q	6.29 J Q	6.22 J Q
Beryllium	mg/kg	0.748	0.676 J Q	0.659 J Q	0.71	0.619 J Q	0.751 J Q	0.698 J Q
Barium	mg/kg	115 J A	87.1	92.4	105 J A	95.7	91.4	109 J A
Boron	mg/kg	12.2	11.5	11.8	10.9	12.8	12.9	9.38
Cadmium	mg/kg	0.324 J Q	0.203	0.233	0.338 J Q	0.239	0.255	0.396
Chromium	mg/kg	32.3 J Q	24.8 J Q, A	26.1 J Q, A	31.3 J Q	26.2 J Q, A	29.6 J Q, A	28.8 J Q, A
Cobalt	mg/kg	9.79 J Q, A	7.79 J A	7.85 J A	9.63 J Q, A	7.94 J A	8.51 J A	10.1 J A
Copper	mg/kg	19.2 J E, Q	13.3 J A	14.5 J A	18.0 J E, Q	13.2 J A	15.0 J A	19.8 J A
Vanadium	mg/kg	51.4 J E	45.1 J A	45.8 J A	53.2 J E	45.2 J A	51.1 J A	49.4 J A
Zinc	mg/kg	72.3	60.1	58.6	63.8	62.7	59.8	77.5 J A
Zirconium	mg/kg	2.13 J Z	3.69 J Z	4.20 J Z	2.65 J Z	3.57 J Z	4.87 J Z	2.69 J Z
Calcium	mg/kg	68000	60400	110000	96600	72800	92700	12400 J E
Phosphorus	mg/kg	615	490	481	578	512	517	827
Selenium	mg/kg	0.315 J Z	0.245 J Z	0.206 J Z	0.291 J Z	0.224 J Z	0.436 J Z	0.207 J Z
Chromium VI	mg/kg	0.40 J Z	0.24 J Z	1.1 U	1.0 U	1.1 U	0.26 J Z	0.41 J Z
Perchlorate (314.0)	ug/kg	31.3 U	32.3 U	33.0 U	31.4 U	32.5 U	33.6 U	31.3 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	4.2	7.1	9.2	4.4	7.6	10.8	4.1
pH	pH unit	7.87	7.96	8.22	7.74	7.95	7.9	7.69

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-016-SA8S-SB-4.0-5.0	SL-017-SA8S-SS-0.0-0.5	SL-017-SA8S-SB-4.0-5.0	SL-018-SA8S-SS-0.0-0.5	SL-018-SA8S-SB-4.0-5.0	SL-018-SA8S-SB-7.5-8.5	SL-019-SA8S-SS-0.0-0.5
Sample Date		10/20/2011	09/30/2011	10/21/2011	09/30/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DE273	DE259	DE277	DE259	DE277	DE277	DE259
Start Depth		4	0	4	0	4	7.5	0
End Depth		5	0.5	5	0.5	5	8.5	0.5
Chemical Name	Unit							
Fluoride	mg/kg	1.2 J Q	0.93 J Z	1.2 J Q	0.97 J Z	1.5 J Q	1.1 UJ Q	1.0 U
Aluminum	mg/kg	21400 J E	21800	28400 J E	24600	30600 J E	12900 J E	13200
Iron	mg/kg	23900	25800	29700	30100	28600	17400	19800
Lead	mg/kg	6.92 J Q, A	19.2 J A	8.87 J Q, A	13.4 J A	8.34 J Q, A	4.81 J Q, A	8.31 J A
Lithium	mg/kg	24.6	22.9	27.9	24	29.1	23.9	24.2
Magnesium	mg/kg	4600	7270	6630	7380	5660	3170	4070
Manganese	mg/kg	403	497	299	474	315	179	272
Mercury	mg/kg	0.103 U	0.0343 J Z	0.105 U B	0.102 U B	0.111 U B	0.103 U	0.102 U B
Molybdenum	mg/kg	0.49	0.57	0.555	0.504	0.596	0.393	0.459
Nickel	mg/kg	16.1 J A	17.4 J A	17.7 J A	19.3 J A	17.1 J A	7.43 J A	9.48 J A
Potassium	mg/kg	3940 J Q	6270	3490 J Q	6280	2950 J Q	1680 J Q	3000
Silver	mg/kg	0.0377 J Z	0.0746 J Z	0.0315 J Z	0.0484 J Z	0.0334 J Z	0.0258 J Z	0.0234 J Z
Sodium	mg/kg	83.0 J Z	88.5 J Z	94.3 J Z	86.8 J Z	84.3 J Z	73.6 J Z	57.7 J Z
Strontium	mg/kg	21.1	27.8	22	37.8	21.8	21.2	8.34
Thallium	mg/kg	0.313	0.284	0.291	0.306	0.357	0.242	0.254
Tin	mg/kg	11.0 U B	10.3 U B	10.8 U B	10.2 U B	11.0 U B	10.8 U B	9.83 U B
Titanium	mg/kg	1150	1210	1200	1200	1190	986	1020
Antimony	mg/kg	0.211 UJ Q	0.151 J Q, Z	0.138 J Q, Z	0.120 J Q, Z	0.115 J Q, Z	0.212 UJ Q	0.0723 J Q, Z
Arsenic	mg/kg	5.12 J Q	5.77 J Q	6.70 J Q	6.24 J Q	7.40 J Q	6.24 J Q	6.79 J Q
Beryllium	mg/kg	0.735 J Q	0.626 J Q	0.757 J Q	0.690 J Q	0.920 J Q	0.519 J Q	0.476 J Q
Barium	mg/kg	116	107 J A	74.8	107 J A	122	77.2	74.6 J A
Boron	mg/kg	9.65	10.1	11.5	8.97	10.9	3.99 J Z	1.70 J Z
Cadmium	mg/kg	0.176	0.398	0.159	0.402	0.0985 J Z	0.106 U	0.153
Chromium	mg/kg	22.5 J Q, A	26.3 J Q, A	28.5 J Q, A	30.0 J Q, A	28.6 J Q, A	12.7 J Q, A	14.3 J Q, A
Cobalt	mg/kg	8.16 J A	9.05 J A	9.96 J A	9.73 J A	8.56 J A	5.54 J A	5.64 J A
Copper	mg/kg	12.1 J A	18.5 J A	15.0 J A	19.2 J A	12.7 J A	6.42 J A	7.44 J A
Vanadium	mg/kg	43.7 J A	44.7 J A	48.3 J A	51.0 J A	55.5 J A	31.5 J A	30.6 J A
Zinc	mg/kg	62	83.1 J A	68.2	73.9 J A	59.7	48.7	55.7 J A
Zirconium	mg/kg	4.78 J Z	2.97 J Z	6.32	3.05 J Z	5.59	3.02 J Z	1.50 J Z
Calcium	mg/kg	11200	11400 J E	5480	20800 J E	14300 J FD	8290	3480 J E
Phosphorus	mg/kg	300	864	399	840	187	358	348
Selenium	mg/kg	0.0647 J Z	0.230 J Z	0.233 J Z	0.194 J Z	0.0883 J FD, Z	0.423 U	0.125 J Z
Chromium VI	mg/kg	3.1	1.0 U	0.44 J Z	1.1 U	0.24 J FD, Z	1.1 U	0.41 J Z
Perchlorate (314.0)	ug/kg	32.9 U	32.3 U	32.9 U	31.3 U	33.5 U	32.4 U	30.7 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	8.8	7.2	8.9	4.1	10.5	7.4	2.2
pH	pH unit	8.17	7.56	6.89	7.44	7.87	8.33	6.52

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A7
Inorganic - Validated Data
HSA-8S

Sample Name		SL-019-SA8S-SB-4.0-5.0	SL-020-SA8S-SS-0.0-0.5	SL-020-SA8S-SB-4.0-5.0	SL-020-SA8S-SB-9.0-10.0	SL-021-SA8S-SS-0.0-0.5	SL-021-SA8S-SB-4.0-5.0	SL-021-SA8S-SB-9.0-10.0
Sample Date		12/02/2011	09/30/2011	12/02/2011	12/02/2011	09/30/2011	12/02/2011	12/02/2011
SDG		DE292	DE259	DE292	DE292	DE259	DE292	DE292
Start Depth		4	0	4	9	0	4	9
End Depth		5	0.5	5	10	0.5	5	10
Chemical Name	Unit							
Fluoride	mg/kg	1.1 UJ FD	1.1 U	0.94 J Z	4.8	1.1 UJ Q	3	5.4
Aluminum	mg/kg	11500	20400	21100	22800	25600	20200	20700
Iron	mg/kg	22700	27100	26000	27500	31400	23300	24800
Lead	mg/kg	5.09 J A	23.0 J A	11.2 J A	11.4 J A	12.8 J A	9.62 J A	12.6 J A
Lithium	mg/kg	23.1	20.6	21.3	25	23.9	22.3	22.9
Magnesium	mg/kg	4390	7010	7170	6900	7600	6240	6190
Manganese	mg/kg	321	395	357	394	375	403	390
Mercury	mg/kg	0.0985 U	0.104 U B	0.104 U	0.105 U	0.0199 J Z	0.109 U	0.0107 J Z
Molybdenum	mg/kg	0.104 U B	0.427	0.111 U B	0.109 U B	0.383	0.108 U B	0.68
Nickel	mg/kg	8.55	16.5 J A	20.5	22.7	16.2 J A	20.5	28.5
Potassium	mg/kg	2470	5050	3670	3140	5560	3220	2500
Silver	mg/kg	0.104 U	0.0311 J Z	0.0273 J Z	0.0297 J Z	0.0342 J Z	0.0356 J Z	0.0276 J Z
Sodium	mg/kg	63.9 J Z	115	113	142	95.7 J Z	200	368
Strontium	mg/kg	7.27	135	128	91	58.9	98.9	92.6
Thallium	mg/kg	0.288	0.273	0.285	0.302	0.262	0.324	0.383
Tin	mg/kg	10.5 U B	10.4 U B	11.2 U B	11.0 U B	10.6 U B	10.9 U B	10.8 U B
Titanium	mg/kg	1190	1010	922	1020	1100	932	1030
Antimony	mg/kg	0.208 UJ Q	0.182 J Q, Z	0.135 J Q, Z	0.151 J Q, Z	0.105 J Q, Z	0.128 J Q, Z	0.150 J Q, Z
Arsenic	mg/kg	6.63 J Q	5.97 J Q	7.01 J Q	7.19 J Q	5.44 J Q	6.28 J Q	8.32 J Q
Beryllium	mg/kg	0.599	0.581 J Q	0.83	0.857	0.562 J Q	0.906	0.967
Barium	mg/kg	87.0 J A	79.5 J A	90.2 J A	99.0 J A	88.1 J A	107 J A	189 J A
Boron	mg/kg	5.26 U	9.51	8.36	6.8	10.4	7.84	6.42
Cadmium	mg/kg	0.0592 J FD, Z	0.346	0.322	0.35	0.357	0.33	0.472
Chromium	mg/kg	13.9 J A	27.1 J Q, A	33.5 J A	36.8 J A	31.0 J Q, A	36.0 J A	45.7 J A
Cobalt	mg/kg	7.70 J A	8.63 J A	10.2 J A	12.7 J A	7.51 J A	10.5 J A	14.7 J A
Copper	mg/kg	7.4	18.0 J A	21.2	20.3	15.9 J A	17.2	22.8
Vanadium	mg/kg	31.6 J Q, A	44.8 J A	56.9 J Q, A	61.9 J Q, A	51.1 J A	61.7 J Q, A	78.9 J Q, A
Zinc	mg/kg	67.2 J A	63.1 J A	61.3 J A	65.6 J A	61.2 J A	60.6 J A	74.5 J A
Zirconium	mg/kg	2.17 J Z	3.21 J Z	4.69 J Z	5.66	3.92 J Z	4.14 J Z	6.18
Calcium	mg/kg	3680 J E	109000 J E	101000 J E	80900 J E	48700 J E	116000 J E	117000 J E
Phosphorus	mg/kg	472	544	576	432	706	502	396
Selenium	mg/kg	0.107 J Z	0.235 J Z	0.217 J Z	0.206 J Z	0.201 J Z	0.206 J Z	0.256 J Z
Chromium VI	mg/kg	1.1 U	0.73 J Z	0.32 J Z	0.24 J Z	0.77 J Z	0.28 J Z	0.26 J Z
Perchlorate (314.0)	ug/kg	31.6 U	32.2 U	33.9 U	33.4 U	32.1 U	33.6 U	33.4 U
Perchlorate (6850)	ug/kg	--	--	5.6 U	--	--	--	--
Percent Moisture	%	5	6.8	11.5	10.2	6.6	10.6	10.2
pH	pH unit	7.91	7.29	8.38	8.37	7.61	8.45	8.66

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-022-SA8S-SS-0.0-0.5	SL-022-SA8S-SB-4.0-5.0	SL-022-SA8S-SB-8.0-9.0	SL-023-SA8S-SS-0.0-0.5	SL-023-SA8S-SB-4.0-5.0	SL-023-SA8S-SB-9.0-10.0	SL-024-SA8S-SS-0.0-0.5
Sample Date		09/30/2011	12/01/2011	12/01/2011	09/30/2011	12/01/2011	12/01/2011	09/29/2011
SDG		DE259	DE291	DE291	DE259	DE291	DE291	DE258
Start Depth		0	4	8	0	4	9	0
End Depth		0.5	5	9	0.5	5	10	0.5
Chemical Name	Unit							
Fluoride	mg/kg	1.0 J Q	1.7	2.5	0.92 J Q, Z	1.8	5.6	0.99 J Q, Z
Aluminum	mg/kg	20600	21700	28300	23800	25900	19300	19800
Iron	mg/kg	23300	29000	38800	25200	33500	25200	25200
Lead	mg/kg	11.9 J A	11.6 J E, Q	12.6 J E, Q	16.7 J A	26.8 J E, Q	9.32 J E, Q	16.7 J A
Lithium	mg/kg	22.4	31.8	43.9	23.1	34.1	26.7	25.5
Magnesium	mg/kg	6650	8070	10900	7060	9040	6940	6680
Manganese	mg/kg	285	298	303	347	319	247	330
Mercury	mg/kg	0.0281 J Z	0.0080 J Z	0.105 U	0.0248 J Z	0.107 U	0.108 U	0.0193 J Z
Molybdenum	mg/kg	0.311	0.358 J E, Q	0.453 J E, Q	0.399	0.108 UJ E, B, Q	0.109 UJ E, B, Q	0.324 J Q
Nickel	mg/kg	15.2 J A	20.6 J Q, E	22.6 J Q, E	17.5 J A	44.6 J Q, E	18.7 J Q, E	18.9 J Q
Potassium	mg/kg	4270	2680	4210	5120	4040	3320	4220 J Q
Silver	mg/kg	0.0264 J Z	0.0190 J Q, E, Z	0.113 UJ E	0.0485 J Z	0.0463 J Q, E, Z	0.0276 J Q, E, Z	0.104 UJ B, Q
Sodium	mg/kg	112	106 J Z	149	94.3 J Z	138	212	104 J Z
Strontium	mg/kg	138	121	101	96.3	128	172	106
Thallium	mg/kg	0.243	0.328 J Q, E	0.414 J Q, E	0.289	0.760 J Q, E	0.287 J Q, E	0.330 J Q
Tin	mg/kg	10.4 U B	11.0 U B	11.3 U B	10.2 U B	11.0 U B	10.9 U B	10.5 U B
Titanium	mg/kg	1020	947	1290	1200	1290	822	980
Antimony	mg/kg	0.120 J Q, Z	0.223 UJ Q	0.225 UJ B, Q	0.134 J Q, Z	0.216 UJ B, Q	0.217 UJ B, Q	0.113 J Q, Z
Arsenic	mg/kg	6.00 J Q	6.96 J Q, E	8.39 J Q, E	6.80 J Q	14.7 J Q, E	5.97 J Q, E	6.35 J E, Q
Beryllium	mg/kg	0.547 J Q	0.759 J Q, E	0.816 J Q, E	0.617 J Q	1.14 J Q, E	0.677 J Q, E	0.684
Barium	mg/kg	73.7 J A	88.3 J E	110 J E	87.5 J A	130 J E	98.0 J E	98.8 J A
Boron	mg/kg	7.64	9.6	13	10.6	11.3	9.4	11.2
Cadmium	mg/kg	0.324	0.255 J Q, E	0.178 J Q, E	0.384	0.326 J Q, E	0.293 J Q, E	0.263 J Q
Chromium	mg/kg	34.0 J Q, A	32.3 J Q, E, A	32.6 J Q, E, A	31.4 J Q, A	57.9 J Q, E, A	39.3 J Q, E, A	34.8 J Q
Cobalt	mg/kg	7.64 J A	11.6 J Q, E, A	14.1 J Q, E, A	8.67 J A	22.6 J Q, E, A	8.87 J Q, E, A	9.74 J Q, A
Copper	mg/kg	14.8 J A	22.7 J E, Q	28.7 J E, Q	15.8 J A	59.0 J E, Q	15.2 J E, Q	18.4 J E, Q
Vanadium	mg/kg	53.2 J A	61.3 J Q, E	65.4 J Q, E	53.8 J A	123 J Q, E	65.8 J Q, E	59.0 J E
Zinc	mg/kg	58.8 J A	73.5 J E, A	85.2 J E, A	62.8 J A	186 J E, A	61.2 J E, A	64.6
Zirconium	mg/kg	4.98 J Z	7.88	8.6	2.23 J Z	9.49	6.93	3.31 J Z
Calcium	mg/kg	100000 J E	102000	54300	95500 J E	70400	97900	109000
Phosphorus	mg/kg	489	444 J Q	500 J Q	642	608 J Q	437 J Q	500
Selenium	mg/kg	0.249 J Z	0.445 UJ B, Q	0.450 UJ B, Q	0.266 J Z	0.433 UJ B, Q	0.453 J Q	0.631
Chromium VI	mg/kg	0.82 J Z	0.63 J Z	1.5	0.34 J Z	0.32 J Z	0.28 J Z	0.73 J Z
Perchlorate (314.0)	ug/kg	31.8 U	33.7 U	34.1 U	31.8 U	34.1 U	33.2 U	31.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	5.7	11.1	12	5.8	12	9.7	4.4
pH	pH unit	7.64	8.36	8.35	7.59	8.4	8.52	7.6

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A7
Inorganic - Validated Data
HSA-8S

Sample Name		SL-024-SA8S-SB-4.0-5.0	SL-024-SA8S-SB-7.0-8.0
Sample Date		11/16/2011	11/16/2011
SDG		DE287	DE287
Start Depth		4	7
End Depth		5	8
Chemical Name	Unit		
Fluoride	mg/kg	1.0 J Q, Z	1.3 J Q
Aluminum	mg/kg	14300	18700
Iron	mg/kg	20800 J Q	30500 J Q
Lead	mg/kg	6.58 J Q, A	10.7 J Q, A
Lithium	mg/kg	21.5	30
Magnesium	mg/kg	5150	6500
Manganese	mg/kg	296	246
Mercury	mg/kg	0.106 U	0.0106 J Z
Molybdenum	mg/kg	0.112 U B	0.109 U B
Nickel	mg/kg	14.3 J Q, A	23.4 J Q, A
Potassium	mg/kg	2800 J Q	3350 J Q
Silver	mg/kg	0.112 U	0.0176 J Z
Sodium	mg/kg	123	123
Strontium	mg/kg	128	122
Thallium	mg/kg	0.267	0.409
Tin	mg/kg	10.9 U B	11.0 U B
Titanium	mg/kg	518	624
Antimony	mg/kg	0.225 UJ Q	0.0969 J Q, Z
Arsenic	mg/kg	5.01 J Q	8.53 J Q
Beryllium	mg/kg	0.629	0.844
Barium	mg/kg	67.0 J E, A	94.0 J E, A
Boron	mg/kg	11.8	13.1
Cadmium	mg/kg	0.205	0.336
Chromium	mg/kg	31.7 J Q, A	40.5 J Q, A
Cobalt	mg/kg	7.51 J A	15.6 J A
Copper	mg/kg	10.1	13.1
Vanadium	mg/kg	44.8 J A	65.1 J A
Zinc	mg/kg	44.2	67.1
Zirconium	mg/kg	4.81 J Z	5.54
Calcium	mg/kg	109000	92400
Phosphorus	mg/kg	397	462
Selenium	mg/kg	0.192 J Z	0.217 J Z
Chromium VI	mg/kg	0.47 J Z	0.43 J Z
Perchlorate (314.0)	ug/kg	33.7 U	34.4 U
Perchlorate (6850)	ug/kg	--	--
Percent Moisture	%	11	12.7
pH	pH unit	8.71	7.33

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA8S-SS-0.0-0.5	SL-001-SA8S-SB-4.0-5.0	SL-003-SA8S-SS-0.0-0.5	SL-005-SA8S-SS-0.0-0.5	SL-005-SA8S-SB-3.5-4.5	SL-007-SA8S-SS-0.0-0.5	SL-007-SA8S-SB-4.0-5.0
Sample Date		09/29/2011	11/18/2011	09/29/2011	09/29/2011	11/15/2011	09/29/2011	11/15/2011
SDG		DX147	DX155	DX147	DX147	DX155	DX147	DX155
Start Depth		0	4	0	0	3.5	0	4
End Depth		0.5	5	0.5	0.5	4.5	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.06 U	0.0547 J Z	1.02 U	1.02 U	0.0502 J Z	1.03 U	1.12 U
1,2,3,7,8,9-HxCDD	ng/kg	5.28 U B	5.58 U B	0.163 J Z	5.09 U B	5.53 U B	5.14 U B	5.62 U B
OCDD	ng/kg	19.3	11.2 U B	18.7	5.28 J Z	11.1 U B	30	11.2 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	2.77 J Z	5.58 U B	2.71 J Z	5.09 U B	5.53 U B	2.29 J Z	5.62 U B
OCDF	ng/kg	1.15 J Z	11.2 U B	10.2 U B	10.2 U B	11.1 U B	10.3 U B	11.2 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.0733 J Z	5.58 U B	0.0692 J Z	0.0315 J Z	5.53 U	0.0397 J Z	5.62 U B
1,2,3,7,8-PeCDD	ng/kg	0.0599 J Z	0.0784 J Z	0.0765 J Z	0.0587 J Z	5.53 U	0.0474 J Z	5.62 U
2,3,7,8-TCDF	ng/kg	1.06 U B	0.0395 J Z	0.196 J Z	1.02 U	1.11 U	1.03 U B	1.12 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.28 U B	5.58 U B	5.09 U B	5.09 U B	5.53 U B	5.14 U B	5.62 U B
2,3,4,7,8-PeCDF	ng/kg	0.381 J Z	5.58 U B	0.317 J Z	5.09 U B	5.53 U B	5.14 U B	5.62 U B
1,2,3,7,8-PeCDF	ng/kg	5.28 U B	5.58 U B	5.09 UJ FD	5.09 U B	5.53 U B	5.14 U	5.62 U
1,2,3,6,7,8-HxCDF	ng/kg	0.133 J Z	5.58 U B	5.09 U B	5.09 U B	5.53 U B	5.14 U B	5.62 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.28 U B	5.58 U B	5.09 U B	5.09 U B	5.53 U B	5.14 U B	5.62 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.28 U B	5.58 U B	5.09 U B	5.09 U B	5.53 U B	5.14 U B	5.62 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	0.592 J Z	5.58 U B	0.574 J Z	5.09 U B	5.53 U B	0.474 J Z	5.62 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.288 J Z	5.58 U B	0.220 J Z	0.0398 J Z	5.53 U B	0.0598 J Z	5.62 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.28 U B	5.58 U B	5.09 UJ FD	5.09 U B	5.53 U B	5.14 U B	5.62 U B
Aroclor 1260	ug/kg	2.2	1.9 U	1.8 UJ FD	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 1254	ug/kg	3.2	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 1268	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 1221	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 5460	ug/kg	2.8 J Z	3.7 U	3.4 U	3.4 U	3.7 UJ E	3.4 U	3.8 UJ E
Aroclor 1232	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 5442	ug/kg	3.5 U	3.7 U	3.4 U	3.4 U	3.7 UJ E	3.4 U	3.8 UJ E
Aroclor 1248	ug/kg	1.8 U	0.49 J Z	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 1016	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 1262	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 1242	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	2.0 U
Aroclor 5432	ug/kg	3.5 U	3.7 U	3.4 U	3.4 U	3.7 UJ E	3.4 U	3.8 UJ E

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
PCBs and Dioxins - Validated Data
HSA-8S

Sample Name		SL-008-SA8S-SS-0.0-0.5	SL-008-SA8S-SB-2.0-3.0	SL-009-SA8S-SS-0.0-0.5	SL-009-SA8S-SB-4.0-5.0	SL-009-SA8S-SB-7.0-8.0	SL-010-SA8S-SS-0.0-0.5	SL-010-SA8S-SB-4.0-5.0
Sample Date		09/30/2011	11/17/2011	09/30/2011	11/16/2011	11/16/2011	09/30/2011	11/16/2011
SDG		DX145	DX155	DX145	DX155	DX155	DX145	DX155
Start Depth		0	2	0	4	7	0	4
End Depth		0.5	3	0.5	5	8	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.0366 J Z	1.07 U	1.04 U	0.0695 J Z	1.07 U	0.0495 J Z	1.13 U
1,2,3,7,8,9-HxCDD	ng/kg	0.269 J Z	5.36 U	0.164 J Z	5.45 U B	5.35 U B	0.296 J Z	5.65 U B
OCDD	ng/kg	32	10.7 U B	18	10.9 U B	10.7 U B	35.5	3.28 J Z
1,2,3,4,6,7,8-HpCDD	ng/kg	4.59 J Z	5.36 U B	2.62 J Z	5.45 U B	5.35 U B	5.41	5.65 U B
OCDF	ng/kg	1.84 J Z	10.7 U B	10.4 U B	10.9 U B	10.7 U B	1.93 J Z	11.3 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.148 J Z	5.36 U	0.0738 J Z	5.45 U B	5.35 U B	0.115 J Z	5.65 U B
1,2,3,7,8-PeCDD	ng/kg	0.118 J Z	5.36 U	0.0440 J Z	0.0806 J Z	5.35 U	0.187 J Z	0.0375 J Z
2,3,7,8-TCDF	ng/kg	0.658 J Z	1.07 U	0.173 J Z	0.0375 J Z	1.07 U	0.851 J Z	0.0471 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.34 U B	5.36 U B	5.21 U B	5.45 U B	5.35 U B	5.21 U B	5.65 U B
2,3,4,7,8-PeCDF	ng/kg	1.64 J Z	5.36 U B	0.403 J Z	5.45 U B	5.35 U B	1.10 J Z	5.65 U B
1,2,3,7,8-PeCDF	ng/kg	0.222 J Z	5.36 U B	5.21 U B	5.45 U B	5.35 U B	0.271 J Z	5.65 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.34 U B	5.36 U B	5.21 U B	5.45 U B	5.35 U B	5.21 U B	5.65 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.304 J Z	5.36 U B	5.21 U B	5.45 U B	5.35 U B	0.430 J Z	5.65 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.34 U B	5.36 U B	5.21 U B	5.45 U B	5.35 U B	5.21 U B	5.65 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	1.32 J Z	5.36 U B	5.21 U B	5.45 U B	5.35 U B	1.31 J Z	5.65 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.474 J Z	5.36 U B	5.21 U B	5.45 U B	5.35 U B	0.449 J Z	5.65 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.34 U B	5.36 U B	5.21 U B	5.45 U B	5.35 U B	5.21 U B	5.65 U
Aroclor 1260	ug/kg	2.4	1.8 U	1.8 U	1.9 U	1.8 U	3.3	2.0 U
Aroclor 1254	ug/kg	3.6	1.8 U	1.8 U	1.9 U	1.8 U	5.4	2.0 U
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 5460	ug/kg	3.2 J Z	3.6 UJ E	3.5 U	3.8 UJ E	3.6 UJ E	5.5	3.8 UJ E
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 5442	ug/kg	3.5 U	3.6 UJ E	3.5 U	3.8 UJ E	3.6 UJ E	3.5 U	3.8 UJ E
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	2.0 U
Aroclor 5432	ug/kg	3.5 U	3.6 UJ E	3.5 U	3.8 UJ E	3.6 UJ E	3.5 U	3.8 UJ E

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-010-SA8S-SB-8.5-9.5	SL-011-SA8S-SS-0.0-0.5	SL-011-SA8S-SB-4.0-5.0	SL-012-SA8S-SS-0.0-0.5	SL-012-SA8S-SB-4.0-5.0	SL-013-SA8S-SS-0.0-0.5	SL-013-SA8S-SB-4.0-5.0
Sample Date		11/16/2011	09/30/2011	11/17/2011	09/30/2011	11/18/2011	09/29/2011	11/14/2011
SDG		DX155	DX145	DX155	DX145	DX155	DX147	DX155
Start Depth		8.5	0	4	0	4	0	4
End Depth		9.5	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.12 U	1.06 U	1.11 U	1.05 U	1.10 U	1.03 U	1.07 U
1,2,3,7,8,9-HxCDD	ng/kg	5.60 U B	0.268 J Z	5.55 U B	0.202 J Z	5.52 U B	0.289 J Z	5.35 U B
OCDD	ng/kg	11.2 U B	43.9	11.1 U B	26.4	11.0 U B	14.2	10.7 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.60 U B	5.79	5.55 U B	3.22 J Z	5.52 U B	2.17 J Z	5.35 U B
OCDF	ng/kg	11.2 U B	1.89 J Z	11.1 U B	1.62 J Z	11.0 U B	1.27 J Z	10.7 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.60 U B	0.109 J Z	5.55 U B	0.141 J Z	5.52 U B	0.224 J Z	5.35 U
1,2,3,7,8-PeCDD	ng/kg	5.60 U	0.124 J Z	5.55 U	0.0769 J Z	0.0619 J Z	0.188 J Z	5.35 U
2,3,7,8-TCDF	ng/kg	0.0390 J Z	0.451 J Z	0.0609 J Z	0.195 J Z	0.0343 J Z	1.03 U B	1.07 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.60 U B	5.29 U B	5.55 U B	5.27 U B	5.52 U B	0.211 J Z	5.35 U B
2,3,4,7,8-PeCDF	ng/kg	5.60 U B	5.29 U B	5.55 U B	5.27 U B	5.52 U B	0.601 J Z	5.35 U
1,2,3,7,8-PeCDF	ng/kg	5.60 U	0.167 J Z	5.55 U B	0.144 J Z	5.52 U B	0.268 J Z	5.35 U
1,2,3,6,7,8-HxCDF	ng/kg	5.60 U	5.29 U B	5.55 U B	5.27 U B	5.52 U B	0.372 J Z	5.35 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.60 U	0.320 J Z	5.55 U B	5.27 U B	5.52 U	0.253 J Z	5.35 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.60 U B	5.29 U B	5.55 U B	5.27 U B	5.52 U B	0.311 J Z	5.35 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.60 U B	1.21 J Z	5.55 U B	5.27 U B	5.52 U B	0.756 J Z	5.35 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.60 U B	5.29 U B	5.55 U B	5.27 U B	5.52 U B	0.438 J Z	5.35 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.60 U B	5.29 U B	5.55 U	5.27 U B	5.52 U B	0.222 J Z	5.35 U B
Aroclor 1260	ug/kg	2.0 U	1.8 U	1.9 U	2.2	1.9 U	1.6 J Z	1.8 U
Aroclor 1254	ug/kg	2.0 U	1.8 U	1.9 U	14	1.9 U	1.5 J Z	1.8 U
Aroclor 1268	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 1221	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 5460	ug/kg	3.8 UJ E	3.5 U	3.7 UJ E	2.4 J Z	3.7 U	2.5 J Z	3.6 UJ E
Aroclor 1232	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 5442	ug/kg	3.8 UJ E	3.5 U	3.7 UJ E	3.5 U	3.7 U	3.4 U	3.6 UJ E
Aroclor 1248	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 1016	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 1262	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 1242	ug/kg	2.0 U	1.8 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U
Aroclor 5432	ug/kg	3.8 UJ E	3.5 U	3.7 UJ E	3.5 U	3.7 U	3.4 U	3.6 UJ E

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
PCBs and Dioxins - Validated Data
HSA-8S

Sample Name		SL-014-SA8S-SS-0.0-0.5	SL-014-SA8S-SB-4.0-5.0	SL-014-SA8S-SB-7.0-8.0	SL-015-SA8S-SS-0.0-0.5	SL-015-SA8S-SB-4.0-5.0	SL-015-SA8S-SB-9.0-10.0	SL-016-SA8S-SS-0.0-0.5
Sample Date		09/29/2011	10/21/2011	10/21/2011	09/29/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DX147	DX152	DX152	DX147	DX152	DX152	DX145
Start Depth		0	4	7	0	4	9	0
End Depth		0.5	5	8	0.5	5	10	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.04 U	1.06 U B	1.08 U B	1.03 U	0.0439 J Z	1.10 U	0.0659 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.210 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	0.350 J Z
OCDD	ng/kg	64.7	10.6 U B	10.8 U B	86.6	10.8 U B	11.0 U B	21.4
1,2,3,4,6,7,8-HpCDD	ng/kg	6.2	5.28 U B	5.40 U B	5.08 J Z	5.39 U B	5.48 U B	3.04 J Z
OCDF	ng/kg	1.33 J Z	10.6 U B	10.8 U B	10.3 U B	10.8 U B	11.0 U B	1.31 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.194 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	0.0844 J Z
1,2,3,7,8-PeCDD	ng/kg	0.164 J Z	5.28 U B	5.40 U B	5.14 U B	0.142 J Z	5.48 U B	0.140 J Z
2,3,7,8-TCDF	ng/kg	1.04 U B	1.06 U B	1.08 U B	0.0580 J Z	0.0507 J Z	1.10 U B	0.498 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.20 U B	5.28 U B	5.40 U B	5.14 U B	0.0393 J Z	5.48 U B	5.14 U B
2,3,4,7,8-PeCDF	ng/kg	0.409 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	0.640 J Z
1,2,3,7,8-PeCDF	ng/kg	0.220 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	0.590 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.172 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	5.14 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.247 J Z	5.28 U B	5.40 U B	0.169 J Z	5.39 U B	5.48 U B	0.267 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.20 U B	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	5.14 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	0.690 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	5.14 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.220 J Z	5.28 U B	5.40 U B	5.14 U B	5.39 U B	5.48 U B	0.417 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.20 U	5.28 U B	5.40 U B	0.0687 J Z	5.39 U B	5.48 U B	5.14 U B
Aroclor 1260	ug/kg	2	1.8 U	1.9 U	0.55 J Z	1.8 U	1.9 U	2.8
Aroclor 1254	ug/kg	1.4 J Z	1.8 U	1.9 U	1.8 U	0.59 J L, Z	1.9 U	6.8
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Aroclor 5460	ug/kg	1.4 J Z	3.5 UJ E	3.6 UJ E	3.5 U	3.6 UJ E	3.7 UJ E	1.4 J Z
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Aroclor 5442	ug/kg	3.4 U	3.5 UJ E	3.6 UJ E	3.5 U	3.6 UJ E	3.7 UJ E	3.4 U
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.1 J Z
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Aroclor 5432	ug/kg	3.4 U	3.5 UJ E	3.6 UJ E	3.5 U	3.6 UJ E	3.7 UJ E	3.4 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-016-SA8S-SB-4.0-5.0	SL-017-SA8S-SS-0.0-0.5	SL-017-SA8S-SB-4.0-5.0	SL-018-SA8S-SS-0.0-0.5	SL-018-SA8S-SB-4.0-5.0	SL-018-SA8S-SB-7.5-8.5	SL-019-SA8S-SS-0.0-0.5
Sample Date		10/20/2011	09/30/2011	10/21/2011	09/30/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DX150	DX145	DX152	DX145	DX152	DX152	DX145
Start Depth		4	0	4	0	4	7.5	0
End Depth		5	0.5	5	0.5	5	8.5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.09 U	0.0382 J Z	1.06 U	1.02 U	1.11 U	1.07 U	1.02 U
1,2,3,7,8,9-HxCDD	ng/kg	5.44 U B	0.343 J Z	5.31 U B	0.278 J Z	5.56 UJ FD	5.34 U B	0.0989 J Z
OCDD	ng/kg	10.9 U B	34.3	10.6 U B	36.1	11.1 UJ B, FD	10.7 U B	9.43 J Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.44 U B	4.94 J Z	5.31 U B	4.00 J Z	5.56 U B	5.34 U B	1.64 J Z
OCDF	ng/kg	10.9 U B	2.14 J Z	10.6 U B	2.24 J Z	11.1 U B	10.7 U B	10.2 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.44 U B	0.123 J Z	5.31 U	0.102 J Z	5.56 UJ B, FD	5.34 U B	0.0545 J Z
1,2,3,7,8-PeCDD	ng/kg	5.44 U	0.139 J Z	5.31 U	0.0931 J Z	5.56 UJ FD	5.34 U B	0.0518 J Z
2,3,7,8-TCDF	ng/kg	1.09 U	0.699 J Z	1.06 U	9.38	1.11 U	1.07 U	1.02 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.44 U B	5.22 U B	5.31 U B	0.617 J Z	5.56 U B	5.34 U B	5.08 U B
2,3,4,7,8-PeCDF	ng/kg	5.44 U B	0.350 J Z	5.31 U B	5.72	5.56 U B	5.34 U B	0.361 J Z
1,2,3,7,8-PeCDF	ng/kg	5.44 U B	0.326 J Z	5.31 U B	8.38	5.56 UJ FD	5.34 U B	5.08 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.44 U B	0.316 J Z	5.31 U B	1.61 J Z	5.56 U B	5.34 U B	5.08 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.44 U	0.345 J Z	5.31 U B	0.274 J Z	5.56 UJ FD	5.34 U B	5.08 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.44 U B	0.450 J Z	5.31 U B	1.40 J Z	5.56 UJ B, FD	5.34 U B	5.08 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.44 U B	1.12 J Z	5.31 U B	1.50 J Z	5.56 U B	5.34 U B	5.08 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.0636 J Z	0.488 J Z	5.31 U B	6.21	5.56 UJ B, FD	5.34 U B	5.08 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.44 U B	5.22 U B	5.31 U B	0.718 J Z	5.56 UJ FD	5.34 U B	5.08 U B
Aroclor 1260	ug/kg	1.9 U	6.4	1.9 U	220	0.80 J FD, S, L, Z	1.1 J S, L, Z	1.7 U
Aroclor 1254	ug/kg	1.9 U	8.9	1.9 U	1500	1.9 J FD, S, L	5.5 J S, L	1.7 U
Aroclor 1268	ug/kg	1.9 U	1.8 U	1.9 U	180 U	1.9 U	1.8 U	1.7 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	1.9 U	180 U	1.9 U	1.8 U	1.7 U
Aroclor 5460	ug/kg	3.6 UJ E	2.3 J Z	3.6 UJ E	340 U	3.7 UJ E	3.6 UJ E	3.4 U
Aroclor 1232	ug/kg	1.9 U	1.8 U	1.9 U	180 U	1.9 U	1.8 U	1.7 U
Aroclor 5442	ug/kg	3.6 UJ E	3.6 U	3.6 UJ E	340 U	3.7 UJ E	3.6 UJ E	3.4 U
Aroclor 1248	ug/kg	1.9 U	1.5 J Z	1.9 U	500	0.51 J FD, S, L, Z	1.8 U	1.7 U
Aroclor 1016	ug/kg	1.9 U	1.8 U	1.9 U	180 U	1.9 U	1.8 U	1.7 U
Aroclor 1262	ug/kg	1.9 U	1.8 U	1.9 U	180 U	1.9 U	1.8 U	1.7 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	1.9 U	180 U	1.9 U	1.8 U	1.7 U
Aroclor 5432	ug/kg	3.6 UJ E	3.6 U	3.6 UJ E	340 U	3.7 UJ E	3.6 UJ E	3.4 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
PCBs and Dioxins - Validated Data
HSA-8S

Sample Name		SL-019-SA8S-SB-4.0-5.0	SL-020-SA8S-SS-0.0-0.5	SL-020-SA8S-SB-4.0-5.0	SL-020-SA8S-SB-9.0-10.0	SL-021-SA8S-SS-0.0-0.5	SL-021-SA8S-SB-4.0-5.0	SL-021-SA8S-SB-9.0-10.0
Sample Date		12/02/2011	09/30/2011	12/02/2011	12/02/2011	09/30/2011	12/02/2011	12/02/2011
SDG		DX157	DX145	DX157	DX157	DX145	DX157	DX157
Start Depth		4	0	4	9	0	4	9
End Depth		5	0.5	5	10	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.05 U B	1.06 U	1.12 U B	1.08 U B	0.0343 J Z	1.11 U B	1.09 U B
1,2,3,7,8,9-HxCDD	ng/kg	5.25 U B	0.141 J Z	5.62 U B	5.41 U B	0.257 J Z	5.55 U B	5.46 U B
OCDD	ng/kg	10.5 U B	18.9	2.43 J Z	10.8 U B	37.9	11.1 U B	10.9 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.25 U B	3.16 J Z	5.62 U B	5.41 U B	4.66 J Z	5.55 U B	5.46 U B
OCDF	ng/kg	10.5 U B	1.32 J Z	11.2 U B	10.8 U B	2.83 J Z	11.1 U B	10.9 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.25 U B	0.0740 J Z	5.62 U B	5.41 U B	0.0810 J Z	5.55 U B	5.46 U B
1,2,3,7,8-PeCDD	ng/kg	5.25 U B	0.0673 J Z	5.62 U B	5.41 U B	0.0549 J Z	5.55 U B	5.46 U B
2,3,7,8-TCDF	ng/kg	1.05 UJ FD	0.344 J Z	1.12 U B	1.08 U	0.219 J Z	1.11 U B	1.09 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
2,3,4,7,8-PeCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
1,2,3,7,8-PeCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	0.255 J Z	5.55 U B	5.46 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	1.17 J Z	5.55 U B	5.46 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.25 U B	5.28 U B	5.62 U B	5.41 U B	5.28 U B	5.55 U B	5.46 U B
Aroclor 1260	ug/kg	1.8 U	2.2	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1254	ug/kg	1.8 U	1.2 J Z	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.5 U	2.4 J Z	3.7 U	3.7 U	3.5 U	3.7 U	3.7 U
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.5 U	3.5 U	3.7 U	3.7 U	3.5 U	3.7 U	3.7 U
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.5 U	3.5 U	3.7 U	3.7 U	3.5 U	3.7 U	3.7 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-022-SA8S-SS-0.0-0.5	SL-022-SA8S-SB-4.0-5.0	SL-022-SA8S-SB-8.0-9.0	SL-023-SA8S-SS-0.0-0.5	SL-023-SA8S-SB-4.0-5.0	SL-023-SA8S-SB-9.0-10.0	SL-024-SA8S-SS-0.0-0.5
Sample Date		09/30/2011	12/01/2011	12/01/2011	09/30/2011	12/01/2011	12/01/2011	09/29/2011
SDG		DX146	DX156	DX156	DX146	DX156	DX156	DX147
Start Depth		0	4	8	0	4	9	0
End Depth		0.5	5	9	0.5	5	10	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.05 U	1.10 U B	1.08 U B	0.0466 J Z	1.12 U B	1.10 U B	0.0482 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.153 J Z	5.51 U B	5.41 U B	0.333 J Z	5.60 U B	5.48 U B	5.00 U B
OCDD	ng/kg	25.7	11.0 U B	10.8 U B	40.2	11.2 U B	11.0 U B	27.7
1,2,3,4,6,7,8-HpCDD	ng/kg	3.60 J Z	5.51 U B	5.41 U B	5.75	5.60 U B	5.48 U B	3.94 J Z
OCDF	ng/kg	1.23 J Z	11.0 U B	10.8 U B	1.63 J Z	11.2 U B	11.0 U B	10.0 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.0991 J Z	5.51 U B	5.41 U B	0.128 J Z	5.60 U B	5.48 U B	5.00 U B
1,2,3,7,8-PeCDD	ng/kg	5.26 U B	5.51 U B	5.41 U B	5.25 U B	5.60 U B	5.48 U B	5.00 U B
2,3,7,8-TCDF	ng/kg	0.128 J Z	1.10 U B	1.08 U B	0.474 J Z	1.12 U B	1.10 U B	0.282 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.26 U B	5.51 U B	5.41 U B	5.25 U B	5.60 U B	5.48 U B	5.00 U B
2,3,4,7,8-PeCDF	ng/kg	0.165 J Z	5.51 U B	5.41 U B	5.25 U	5.60 U B	5.48 U B	5.00 U B
1,2,3,7,8-PeCDF	ng/kg	0.0992 J Z	5.51 U B	5.41 U B	0.116 J Z	5.60 U B	5.48 U B	5.00 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.26 U B	5.51 U B	5.41 U B	5.25 U B	5.60 U B	5.48 U B	5.00 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.182 J Z	5.51 U B	5.41 U B	0.310 J Z	5.60 U B	5.48 U B	0.225 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.26 U B	5.51 U B	5.41 U B	0.183 J Z	5.60 U B	5.48 U B	5.00 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	0.777 J Z	5.51 U B	5.41 U B	1.01 J Z	5.60 U B	5.48 U B	5.00 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.26 U B	5.51 U B	5.41 U B	0.186 J Z	5.60 U B	5.48 U B	5.00 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.26 U	5.51 U B	5.41 U B	5.25 U B	5.60 U B	5.48 U B	0.0642 J Z
Aroclor 1260	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 1254	ug/kg	1.3 J Z	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 1268	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 1221	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 5460	ug/kg	3.5 U	3.7 U	3.7 U	3.5 U	3.7 U	3.7 U	3.4 UJ S
Aroclor 1232	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 5442	ug/kg	3.5 U	3.7 U	3.7 U	3.5 U	3.7 U	3.7 U	3.4 UJ S
Aroclor 1248	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 1016	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 1262	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 1242	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 UJ S
Aroclor 5432	ug/kg	3.5 U	3.7 U	3.7 U	3.5 U	3.7 U	3.7 U	3.4 UJ S

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A8
PCBs and Dioxins - Validated Data
HSA-8S

Sample Name		SL-024-SA8S-SB-4.0-5.0	SL-024-SA8S-SB-7.0-8.0
Sample Date		11/16/2011	11/16/2011
SDG		DX155	DX155
Start Depth		4	7
End Depth		5	8
Chemical Name	Unit		
2,3,7,8-TCDD	ng/kg	1.10 U	1.12 U
1,2,3,7,8,9-HxCDD	ng/kg	5.52 U	5.62 U B
OCDD	ng/kg	11.0 U B	11.2 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.52 U B	5.62 U B
OCDF	ng/kg	11.0 U B	11.2 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.52 U B	5.62 U B
1,2,3,7,8-PeCDD	ng/kg	5.52 U	5.62 U
2,3,7,8-TCDF	ng/kg	1.10 U	1.12 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.52 U B	5.62 U B
2,3,4,7,8-PeCDF	ng/kg	5.52 U B	5.62 U B
1,2,3,7,8-PeCDF	ng/kg	5.52 U B	5.62 U
1,2,3,6,7,8-HxCDF	ng/kg	5.52 U B	5.62 U
1,2,3,6,7,8-HxCDD	ng/kg	5.52 U B	5.62 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.52 U B	5.62 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.52 U B	5.62 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.52 U B	5.62 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.52 U B	5.62 U B
Aroclor 1260	ug/kg	1.9 U	1.9 U
Aroclor 1254	ug/kg	1.9 U	1.9 U
Aroclor 1268	ug/kg	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.7 UJ E	3.8 UJ E
Aroclor 1232	ug/kg	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.7 UJ E	3.8 UJ E
Aroclor 1248	ug/kg	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.7 UJ E	3.8 UJ E

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA8S-SS-0.0-0.5	SL-003-SA8S-SS-0.0-0.5	SL-005-SA8S-SS-0.0-0.5	SL-007-SA8S-SS-0.0-0.5	SL-008-SA8S-SS-0.0-0.5	SL-009-SA8S-SS-0.0-0.5	SL-010-SA8S-SS-0.0-0.5
Sample Date		09/29/2011	09/29/2011	09/29/2011	09/29/2011	09/30/2011	09/30/2011	09/30/2011
SDG		DE258	DE258	DE258	DE258	DE259	DE259	DE259
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Dicamba	ug/kg	1.3 UJ L	1.2 R Q, L	1.2 UJ L	1.3 UJ L	1.3 U	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	9.5 U	9.3 R Q	9.2 U	9.4 U	9.6 R Q	9.5 U	9.6 U
Dinitrobutyl Phenol	ug/kg	2.5 R L	2.5 R Q, L	2.5 R L	2.5 R L	2.6 R Q, L	2.5 R L	2.6 R L
MCPP	ug/kg	270 UJ L	280 J FD, L	260 UJ L	260 UJ L	190 J Z	110 J Z	270 U
2,4,5-TP	ug/kg	0.18 UJ L	0.18 UJ Q, L	0.17 UJ L	0.18 UJ L	0.18 U	0.18 U	0.18 U
2,4,5-T	ug/kg	0.28 U	0.18 U	0.22	0.18 U	0.18 U	0.18 U	0.18 U
MCPA	ug/kg	1900 J L	260 UJ L	260 UJ L	260 UJ L	270 U	320	270 U
2,4-D	ug/kg	3.8 U	3.7 U	3.7 U	3.8 U	3.9 U	3.8 U	3.9 U
2,4 DB	ug/kg	1.8 U	1.8 UJ FD	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Toxaphene	ug/kg	7.0 UJ H	7.2 UJ H	6.8 UJ H	6.9 UJ H	17	4.7 J Z	8.1 U
Heptachlor Epoxide	ug/kg	0.18 UJ H	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U
Endosulfan Sulfate	ug/kg	0.36 UJ H	0.35 R H, Q	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
Mirex	ug/kg	0.36 UJ H	0.35 UJ H	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
Aldrin	ug/kg	0.18 UJ H	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U
Alpha-BHC	ug/kg	0.18 UJ H	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U
Beta-BHC	ug/kg	0.18 UJ H	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U
Delta-BHC	ug/kg	0.44 J H, S	0.059 J H, Z	0.17 UJ H	0.045 J H, Z	0.54 U	0.040 J Z	0.52
Endosulfan II	ug/kg	0.36 UJ H	0.35 UJ H	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
4,4'-DDT	ug/kg	0.82 J H, S	0.42 UJ H	0.35 UJ H	0.35 UJ H	4.9	0.69	3.2 J Z
Endrin Ketone	ug/kg	0.36 UJ H	0.35 R H, Q	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
Chlordane	ug/kg	1.5 J H, S, Z	3.5 UJ H, FD	3.5 UJ H	1.9 J H, Z	6	2.3 J Z	4.2
Gamma-BHC (Lindane)	ug/kg	0.072 J H, S, Z	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U
Dieldrin	ug/kg	0.36 UJ H	0.35 UJ H	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
Endrin	ug/kg	0.36 UJ H	0.35 UJ H	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
Methoxychlor	ug/kg	1.8 UJ H	1.7 UJ H	1.7 UJ H	1.7 UJ H	1.8 U	1.8 U	1.8 U
4,4'-DDD	ug/kg	0.52 UJ H	0.35 UJ H	0.35 UJ H	0.35 UJ H	0.36 U	0.36 U	0.36 U
4,4'-DDE	ug/kg	0.85 J H, S	0.48 J H	0.35 UJ H	0.35 UJ H	8.8	0.44	5.4
Endrin Aldehyde	ug/kg	0.36 UJ H	0.35 UJ H	0.35 UJ H	0.35 UJ H	0.63 U	0.36 U	0.36 U
Heptachlor	ug/kg	0.18 UJ H	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U
Endosulfan I	ug/kg	0.18 UJ H	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.18 U	0.18 U	0.18 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A9
Pesticides - Validated Data
HSA-8S

Sample Name		SL-011-SA8S-SS-0.0-0.5	SL-012-SA8S-SS-0.0-0.5	SL-013-SA8S-SS-0.0-0.5	SL-014-SA8S-SS-0.0-0.5	SL-015-SA8S-SS-0.0-0.5	SL-016-SA8S-SS-0.0-0.5	SL-017-SA8S-SS-0.0-0.5
Sample Date		09/30/2011	09/30/2011	09/29/2011	09/29/2011	09/29/2011	09/30/2011	09/30/2011
SDG		DE259	DE259	DE258	DE258	DE258	DE259	DE259
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Dicamba	ug/kg	1.3 U	1.3 U	1.2 UJ L	1.2 UJ L	1.2 UJ L	1.2 U	0.45 J Z
2,2-Dichlor-Propionic Acid	ug/kg	9.6 U	9.6 U	9.3 U	9.4 U	9.4 U	9.4 U	9.7 U
Dinitrobutyl Phenol	ug/kg	2.6 R L	2.6 R L	2.5 R L	2.5 R L	2.5 R L	2.5 R L	2.6 R L
MCPP	ug/kg	270 U	270 U	260 UJ L	260 UJ L	260 UJ L	260 U	270 U
2,4,5-TP	ug/kg	0.18 U	0.18 U	0.26 J L	0.21 J L	0.18 UJ L	0.18 U	0.18 U
2,4,5-T	ug/kg	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U
MCPA	ug/kg	340 U	270 U	380 J L	260 UJ L	260 UJ L	1600	270 U
2,4-D	ug/kg	3.8 U	3.8 U	3.7 U	3.7 U	3.7 U	3.7 U	3.9 U
2,4 DB	ug/kg	1.8 U	1.4 J Z	1.4 J Z	0.94 J Z	1.8	1.8 U	1.8 U
Toxaphene	ug/kg	9.4 U	13 U	6.8 UJ H	6.9 UJ H	6.9 UJ H	13 U	7.1 U
Heptachlor Epoxide	ug/kg	0.18 U	0.18 U	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.11 J Z	0.18 U
Endosulfan Sulfate	ug/kg	0.36 U	0.36 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.35 U	0.37 U
Mirex	ug/kg	0.36 U	0.46 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.55 U	0.37 U
Aldrin	ug/kg	0.18 U	0.18 U	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.17 U	0.18 U
Alpha-BHC	ug/kg	0.18 U	0.18 U	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.17 U	0.18 U
Beta-BHC	ug/kg	0.18 U	0.18 U	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.17 U	0.18 U
Delta-BHC	ug/kg	0.18 U	1.4 U	0.17 UJ H	0.054 J H, Z	0.20 J H	0.5	0.18 U
Endosulfan II	ug/kg	0.36 U	0.36 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.35 U	0.37 U
4,4'-DDT	ug/kg	1.8	1.8	1.9 J H	0.80 J H	0.29 J H, Z	2.1	4.6
Endrin Ketone	ug/kg	0.36 U	0.36 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.35 U	0.37 U
Chlordane	ug/kg	4	1.6 J Z	2.7 J H, Z	2.4 J H, Z	1.9 J H, Z	1.3 J Z	1.2 J S, Z
Gamma-BHC (Lindane)	ug/kg	0.18 U	0.18 U	0.060 J H, Z	0.17 UJ H	0.17 UJ H	0.17 U	0.18 U
Dieldrin	ug/kg	0.36 U	0.36 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.33 J Z	0.37 U
Endrin	ug/kg	0.36 U	0.36 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.35 U	0.37 U
Methoxychlor	ug/kg	1.8 U	2.2 U	1.7 UJ H	1.7 UJ H	1.7 UJ H	2.0 U	1.8 U
4,4'-DDD	ug/kg	0.36 U	0.36 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.35 U	0.37 U
4,4'-DDE	ug/kg	2.8	2.2	1.1 J H	1.1 J H	0.57 J H	2	3.9
Endrin Aldehyde	ug/kg	1.2 U	1.2 U	0.35 UJ H	0.35 UJ H	0.36 UJ H	0.80 U	0.37 U
Heptachlor	ug/kg	0.18 U	0.18 U	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.17 U	0.18 U
Endosulfan I	ug/kg	0.18 U	0.18 U	0.17 UJ H	0.17 UJ H	0.17 UJ H	0.12 J Z	0.18 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-018-SA8S-SS-0.0-0.5	SL-019-SA8S-SS-0.0-0.5	SL-020-SA8S-SS-0.0-0.5	SL-021-SA8S-SS-0.0-0.5	SL-022-SA8S-SS-0.0-0.5	SL-023-SA8S-SS-0.0-0.5	SL-024-SA8S-SS-0.0-0.5
Sample Date		09/30/2011	09/30/2011	09/30/2011	09/30/2011	09/30/2011	09/30/2011	09/29/2011
SDG		DE259	DE259	DE259	DE259	DE259	DE259	DE258
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit							
Dichlorprop	ug/kg	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Dicamba	ug/kg	1.2 U	0.61 J Z	1.3 U	1.3 U	1.3 U	1.3 U	1.3 UJ L
2,2-Dichlor-Propionic Acid	ug/kg	9.3 U	9.2 U	9.6 U	9.6 U	9.5 U	9.6 U	9.4 U
Dinitrobutyl Phenol	ug/kg	2.5 R L	2.5 R L	2.6 R L	2.6 R L	2.5 R L	2.5 R L	2.5 R L
MCPP	ug/kg	260 U	260 U	270 U	270 U	270 U	270 U	260 UJ L
2,4,5-TP	ug/kg	0.18 U	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.20 J L
2,4,5-T	ug/kg	0.18 U	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
MCPA	ug/kg	300	260 U	270 U	270 U	270 U	270 U	260 UJ L
2,4-D	ug/kg	3.7 U	3.7 U	3.9 U	3.8 U	3.8 U	3.8 U	3.8 U
2,4 DB	ug/kg	1.8 U	4	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Toxaphene	ug/kg	140 U	20 U	7.1 U	15 U	42 U	70 U	6.9 UJ H
Heptachlor Epoxide	ug/kg	9.6 U	0.17 U	0.18 U	0.18 U	0.18 U	0.40 J Z	0.17 UJ H
Endosulfan Sulfate	ug/kg	7.1 U	3.5 U	0.36 U	0.36 U	0.36 U	3.6 U	0.36 UJ H
Mirex	ug/kg	7.1 U	0.35 U	0.36 U	0.40 U	0.51 U	3.6 U	0.36 UJ H
Aldrin	ug/kg	3.5 U	0.17 U	0.18 U	0.18 U	0.18 U	1.8 U	0.17 UJ H
Alpha-BHC	ug/kg	3.5 U	0.17 U	0.18 U	0.18 U	0.18 U	1.8 U	0.17 UJ H
Beta-BHC	ug/kg	3.5 U	0.17 U	0.18 U	0.18 U	0.18 U	1.8 U	0.17 UJ H
Delta-BHC	ug/kg	3.5 U	1.3 U	0.72	1.7	1.2 U	12	0.17 UJ H
Endosulfan II	ug/kg	12 U	0.35 U	0.36 U	0.36 U	0.36 U	3.6 U	0.36 UJ H
4,4'-DDT	ug/kg	74 U	2.0 J S	1.1	1	1.9	3.0 J Z	0.94 J H
Endrin Ketone	ug/kg	7.1 U	0.35 U	0.36 U	0.36 U	0.34 U	3.6 U	0.36 UJ H
Chlordane	ug/kg	71 U	2.7 J S, Z	3.6 U	3.7	3.6	36 U	2.9 J H, Z
Gamma-BHC (Lindane)	ug/kg	3.5 U	0.17 U	0.18 U	0.18 U	0.18 U	1.8 U	0.17 UJ H
Dieldrin	ug/kg	25 U	0.35 U	0.36 U	0.36 U	0.36 U	3.6 U	0.36 UJ H
Endrin	ug/kg	8.1 U	0.35 U	0.36 U	0.36 U	0.36 U	3.6 U	0.36 UJ H
Methoxychlor	ug/kg	35 U	1.7 U	1.8 U	1.8 U	2.1 U	18 U	1.7 UJ H
4,4'-DDD	ug/kg	7.1 U	0.35 U	0.36 U	0.36 U	0.36 U	3.6 U	0.36 UJ H
4,4'-DDE	ug/kg	59 U	1.6 J S	1	1.4	2	4.3	0.62 J H
Endrin Aldehyde	ug/kg	7.1 U	0.99 U	0.40 U	0.69 U	2.2 U	3.7 U	0.36 UJ H
Heptachlor	ug/kg	3.5 U	0.17 U	0.18 U	0.18 U	0.18 U	1.8 U	0.17 UJ H
Endosulfan I	ug/kg	3.5 U	0.27 U	0.18 U	0.18 U	0.18 U	1.8 U	0.17 UJ H

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-001-SA8S-SS-0.0-0.5	SL-001-SA8S-SB-4.0-5.0	SL-003-SA8S-SS-0.0-0.5	SL-005-SA8S-SS-0.0-0.5	SL-005-SA8S-SB-3.5-4.5	SL-007-SA8S-SS-0.0-0.5	SL-007-SA8S-SB-4.0-5.0
Sample Date		09/29/2011	11/18/2011	09/29/2011	09/29/2011	11/15/2011	09/29/2011	11/15/2011
SDG		DE258	DE289	DE258	DE258	DE287	DE258	DE287
Start Depth		0	4	0	0	3.5	0	4
End Depth		0.5	5	0.5	0.5	4.5	0.5	5
Chemical Name	Unit							
N-Nitrosodimethylamine	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 UJ Q
2,4-Dinitrotoluene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Nitrobenzene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
1,3-Dichlorobenzene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Hexachlorobutadiene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
1,2-Dichlorobenzene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
4-Nitroaniline	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
4-Nitrophenol	ug/kg	530 U	560 U	520 U	510 U	560 U	520 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
4-Methylphenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
4-Chloroaniline	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Phenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U B	20 U	19 U B	18 U B	20 U	19 U	7.1 J Z
Di-N-Octyl Phthalate	ug/kg	19 U	20 U	19 U	18 U	20 U	19 U	20 U
Hexachlorobenzene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Anthracene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.2 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Dimethylphthalate	ug/kg	19 U	20 U	19 U	18 U	20 U	19 U	20 U
Dibenzofuran	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Benzo(g,h,i)perylene	ug/kg	1.8 U B	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Benzo(b)fluoranthene	ug/kg	3.8	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.3 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Benzo(k)fluoranthene	ug/kg	0.72 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Acenaphthylene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Chrysene	ug/kg	1.1 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Benzo(a)pyrene	ug/kg	0.87 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1000 R Q	1000 U	1100 U	1000 U	1200 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 UJ L	560 U	520 UJ L	510 UJ L	560 U	520 UJ L	580 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Benzo(a)anthracene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-001-SA8S-SS-0.0-0.5	SL-001-SA8S-SB-4.0-5.0	SL-003-SA8S-SS-0.0-0.5	SL-005-SA8S-SS-0.0-0.5	SL-005-SA8S-SB-3.5-4.5	SL-007-SA8S-SS-0.0-0.5	SL-007-SA8S-SB-4.0-5.0
Sample Date		09/29/2011	11/18/2011	09/29/2011	09/29/2011	11/15/2011	09/29/2011	11/15/2011
SDG		DE258	DE289	DE258	DE258	DE287	DE258	DE287
Start Depth		0	4	0	0	3.5	0	4
End Depth		0.5	5	0.5	0.5	4.5	0.5	5
Chemical Name	Unit							
Aniline	ug/kg	530 U	560 U	520 U	510 U	560 U	520 U	580 U
Benzoic Acid	ug/kg	530 UJ L	560 U	520 UJ L	510 UJ L	560 U	520 UJ L	580 U
Hexachloroethane	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Hexachlorocyclopentadiene	ug/kg	530 U	560 U	520 U	510 U	560 U	520 U	580 U
Isophorone	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
Acenaphthene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Diethylphthalate	ug/kg	19 U	20 U	19 U	18 U	20 U	19 U	20 U
Di-n-Butylphthalate	ug/kg	19 U	20 U	19 U	18 U	20 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	16 J Z	20 U	20	18 U	20 U	20	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Fluorene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Carbazole	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Pentachlorophenol	ug/kg	530 U	560 U	520 U	510 U	560 U	520 U	580 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
2-Nitroaniline	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
2-Nitrophenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
1-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
Naphthalene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
2-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
3,3`-Dichlorobenzidine	ug/kg	350 U	370 U	340 U	340 U	370 U	350 U	380 U
Benzidine	ug/kg	3500 U	3700 U	3400 R Q	3400 U	3700 U	3500 U	3800 UJ Q
2-Methylphenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
2-Chlorophenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 UJ Q
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
3-Nitroaniline	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U
Benzyl Alcohol	ug/kg	530 U	560 U	520 U	510 U	560 U	520 U	580 UJ Q
2,6-Dinitrotoluene	ug/kg	180 U	190 U	170 U	170 U	190 U	170 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-008-SA8S-SS-0.0-0.5	SL-008-SA8S-SB-2.0-3.0	SL-009-SA8S-SS-0.0-0.5	SL-009-SA8S-SB-4.0-5.0	SL-009-SA8S-SB-7.0-8.0	SL-010-SA8S-SS-0.0-0.5	SL-010-SA8S-SB-4.0-5.0
Sample Date		09/30/2011	11/17/2011	09/30/2011	11/16/2011	11/16/2011	09/30/2011	11/16/2011
SDG		DE259	DE288	DE259	DE287	DE287	DE259	DE288
Start Depth		0	2	0	4	7	0	4
End Depth		0.5	3	0.5	5	8	0.5	5
Chemical Name	Unit							
N-Nitrosodimethylamine	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
4-Nitrophenol	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Phenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U B	16 J Z	19 U B	20 U	6.8 J Z	19 U B	20 U
Di-N-Octyl Phthalate	ug/kg	19 U	19 U	19 U	20 U	19 U	19 U	20 U
Hexachlorobenzene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Anthracene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.2	1.8 U	1.4 J Z	1.9 U	1.8 U	3.8	1.9 U
Dimethylphthalate	ug/kg	19 U	19 U	19 U	20 U	19 U	19 U	20 U
Dibenzofuran	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Benzo(g,h,i)perylene	ug/kg	0.80 J Z	1.8 U	1.8 U	1.9 U	1.8 U	1.2 J Z	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	0.97 J Z	1.9 U
Benzo(b)fluoranthene	ug/kg	2.5	1.8 U	0.93 J Z	1.9 U	1.8 U	3.4	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	19 J Z	--
Fluoranthene (8270C SIM)	ug/kg	3.3	1.8 U	1.7 J Z	1.9 U	1.8 U	--	1.9 U
Benzo(k)fluoranthene	ug/kg	7.9	1.8 U	2.6	1.9 U	1.8 U	10	1.9 U
Acenaphthylene	ug/kg	0.48 J Z	1.8 U	1.8 U	1.9 U	1.8 U	0.37 J Z	1.9 U
Chrysene	ug/kg	2.7	1.8 U	1.0 J Z	1.9 U	1.8 U	3.9	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Benzo(a)pyrene	ug/kg	1.5 J Z	1.8 U	0.75 J Z	1.9 U	1.8 U	1.8	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Benzo(a)anthracene	ug/kg	1.0 J Z	1.8 U	1.8 U	1.9 U	1.8 U	1.3 J Z	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-008-SA8S-SS-0.0-0.5	SL-008-SA8S-SB-2.0-3.0	SL-009-SA8S-SS-0.0-0.5	SL-009-SA8S-SB-4.0-5.0	SL-009-SA8S-SB-7.0-8.0	SL-010-SA8S-SS-0.0-0.5	SL-010-SA8S-SB-4.0-5.0
Sample Date		09/30/2011	11/17/2011	09/30/2011	11/16/2011	11/16/2011	09/30/2011	11/16/2011
SDG		DE259	DE288	DE259	DE287	DE287	DE259	DE288
Start Depth		0	2	0	4	7	0	4
End Depth		0.5	3	0.5	5	8	0.5	5
Chemical Name	Unit							
Aniline	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
Benzoic Acid	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
Isophorone	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Acenaphthene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Diethylphthalate	ug/kg	19 U	19 U	19 U	20 U	19 U	19 U	20 U
Di-n-Butylphthalate	ug/kg	19 U	19 U	19 U	20 U	19 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.4 J Z	1.8 U	0.92 J Z	1.9 U	1.8 U	2.8	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	11 J Z	10 J Z	6.4 J Z	20 U	19 U	47	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Fluorene	ug/kg	0.84 J Z	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Carbazole	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Pentachlorophenol	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
1-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Naphthalene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	0.95 J Z	1.9 U
2-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	350 U	360 U	350 U	380 U	360 U	360 U	380 U
Benzidine	ug/kg	3500 R Q	3600 U	3500 U	3800 U	3600 U	3600 U	3800 U
2-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U
Benzyl Alcohol	ug/kg	530 U	540 U	530 U	570 U	540 U	540 U	570 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	190 U	180 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-010-SA8S-SB-8.5-9.5	SL-011-SA8S-SS-0.0-0.5	SL-011-SA8S-SB-4.0-5.0	SL-012-SA8S-SS-0.0-0.5	SL-012-SA8S-SB-4.0-5.0	SL-013-SA8S-SS-0.0-0.5	SL-013-SA8S-SB-4.0-5.0
Sample Date		11/16/2011	09/30/2011	11/17/2011	09/30/2011	11/18/2011	09/29/2011	11/14/2011
SDG		DE288	DE259	DE288	DE259	DE289	DE258	DE286
Start Depth		8.5	0	4	0	4	0	4
End Depth		9.5	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
N-Nitrosodimethylamine	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Nitrobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Hexachlorobutadiene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
4-Nitroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
4-Nitrophenol	ug/kg	580 U	530 U	560 U	530 U	560 U	510 U	530 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
4-Methylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
4-Chloroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Phenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	20 J Z	23 J Z	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	19 U B	7.0 J Z	--	--	18 U B	19 U
Di-N-Octyl Phthalate	ug/kg	20 U	19 U	20 U	19 U	20 U	18 U	19 U
Hexachlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Anthracene	ug/kg	1.9 U	0.56 J Z	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
2,4-Dichlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	11	1.8 U	1.8 U	1.8 U	0.80 J Z	1.8 U
Dimethylphthalate	ug/kg	20 U	19 U	20 U	19 U	20 U	18 U	19 U
Dibenzofuran	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Benzo(g,h,i)perylene	ug/kg	1.9 U	1.8	1.8 U	1.8 U	1.8 U	1.7 U B	1.8 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.9 U	1.2 J Z	1.8 U	1.8 U	1.8 U	1.7 U B	1.8 U
Benzo(b)fluoranthene	ug/kg	1.9 U	8.6	1.8 U	0.97 J Z	1.8 U	5.3	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	12	1.8 U	1.8 U	1.8 U	1.3 J Z	1.8 U
Benzo(k)fluoranthene	ug/kg	1.9 U	11	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Acenaphthylene	ug/kg	1.9 U	1.6 J Z	1.8 U	1.8 U	1.8 U	0.41 J Z	1.8 U
Chrysene	ug/kg	1.9 U	18	1.8 U	1.8 U	1.8 U	0.89 J Z	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Benzo(a)pyrene	ug/kg	1.9 U	6.2	1.8 U	1.8 U	1.8 U	1.7	1.8 U
2,4-Dinitrophenol	ug/kg	1200 U	1100 U	1100 U	1100 U	1100 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	530 U	560 U	530 U	560 U	510 UJ L	530 U
Dibenzo(a,h)anthracene	ug/kg	1.9 U	1.5 J Z	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Benzo(a)anthracene	ug/kg	1.9 U	13	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-010-SA8S-SB-8.5-9.5	SL-011-SA8S-SS-0.0-0.5	SL-011-SA8S-SB-4.0-5.0	SL-012-SA8S-SS-0.0-0.5	SL-012-SA8S-SB-4.0-5.0	SL-013-SA8S-SS-0.0-0.5	SL-013-SA8S-SB-4.0-5.0
Sample Date		11/16/2011	09/30/2011	11/17/2011	09/30/2011	11/18/2011	09/29/2011	11/14/2011
SDG		DE288	DE259	DE288	DE259	DE289	DE258	DE286
Start Depth		8.5	0	4	0	4	0	4
End Depth		9.5	0.5	5	0.5	5	0.5	5
Chemical Name	Unit							
Aniline	ug/kg	580 U	530 U	560 U	530 U	560 U	510 U	530 U
Benzoic Acid	ug/kg	580 U	530 U	560 U	530 U	560 U	510 UJ L	530 U
Hexachloroethane	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Hexachlorocyclopentadiene	ug/kg	580 U	530 U	560 U	530 U	560 U	510 U	530 U
Isophorone	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Acenaphthene	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Diethylphthalate	ug/kg	20 U	19 U	20 U	19 U	20 U	18 U	19 U
Di-n-Butylphthalate	ug/kg	20 U	19 U	20 U	19 U	20 U	18 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	3.4	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	210	20 U	31	23	27	13 J Z
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Fluorene	ug/kg	1.9 U	2	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Carbazole	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Pentachlorophenol	ug/kg	580 U	530 U	560 U	530 U	560 U	510 U	530 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
2-Nitroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
2-Nitrophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
1-Methylnaphthalene	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
Naphthalene	ug/kg	1.9 U	0.93 J Z	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
2-Methylnaphthalene	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
2-Chloronaphthalene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
3,3`-Dichlorobenzidine	ug/kg	380 U	350 U	370 U	360 U	370 U	340 U	350 U
Benzidine	ug/kg	3800 U	3500 U	3700 U	3600 U	3700 U	3400 U	3500 U
2-Methylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
2-Chlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
3-Nitroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U
Benzyl Alcohol	ug/kg	580 U	530 U	560 U	530 U	560 U	510 U	530 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	190 U	180 U	190 U	170 U	180 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-014-SA8S-SS-0.0-0.5	SL-014-SA8S-SB-4.0-5.0	SL-014-SA8S-SB-7.0-8.0	SL-015-SA8S-SS-0.0-0.5	SL-015-SA8S-SB-4.0-5.0	SL-015-SA8S-SB-9.0-10.0	SL-016-SA8S-SS-0.0-0.5
Sample Date		09/29/2011	10/21/2011	10/21/2011	09/29/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DE258	DE277	DE277	DE258	DE277	DE277	DE259
Start Depth		0	4	7	0	4	9	0
End Depth		0.5	5	8	0.5	5	10	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine	ug/kg	1.7 U	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Nitrobenzene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
1,3-Dichlorobenzene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Hexachlorobutadiene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
4-Nitroaniline	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
4-Nitrophenol	ug/kg	520 U	540 U	550 U	520 U	530 U	560 U	520 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
4-Methylphenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
4-Chloroaniline	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Phenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	30 J Z
Bis(2-Chloroethyl) ether	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	36 J Z
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U B	19 U	30	19 UJ S	19 U	20 U	--
Di-N-Octyl Phthalate	ug/kg	19 U	19 U	44	19 UJ S	9.1 J Z	20 U	19 U
Hexachlorobenzene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Anthracene	ug/kg	0.42 J Z	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
2,4-Dichlorophenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.8	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.1 J Z
Dimethylphthalate	ug/kg	19 U	19 U	20 U	19 UJ S	19 U	20 U	19 U
Dibenzofuran	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Benzo(g,h,i)perylene	ug/kg	1.7 U B	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.7 U B	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
Benzo(b)fluoranthene	ug/kg	16	1.8 U	1.8 U	1.4 J S, Z	1.8 U	1.9 U	1.3 J Z
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	4.6	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7
Benzo(k)fluoranthene	ug/kg	1.7 U	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	4.7
Acenaphthylene	ug/kg	0.78 J Z	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
Chrysene	ug/kg	2.7	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.6 J Z
bis(2-Chloroisopropyl) ether	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Benzo(a)pyrene	ug/kg	3.3	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1100 U	1000 U	1100 U	1100 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	520 UJ L	540 U	550 U	520 UJ L	530 U	560 U	520 U
Dibenzo(a,h)anthracene	ug/kg	1.7 U B	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
Benzo(a)anthracene	ug/kg	4	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
4-Chloro-3-Methylphenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-014-SA8S-SS-0.0-0.5	SL-014-SA8S-SB-4.0-5.0	SL-014-SA8S-SB-7.0-8.0	SL-015-SA8S-SS-0.0-0.5	SL-015-SA8S-SB-4.0-5.0	SL-015-SA8S-SB-9.0-10.0	SL-016-SA8S-SS-0.0-0.5
Sample Date		09/29/2011	10/21/2011	10/21/2011	09/29/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DE258	DE277	DE277	DE258	DE277	DE277	DE259
Start Depth		0	4	7	0	4	9	0
End Depth		0.5	5	8	0.5	5	10	0.5
Chemical Name	Unit							
Aniline	ug/kg	520 U	540 U	550 U	520 U	530 U	560 U	520 U
Benzoic Acid	ug/kg	520 UJ L	540 U	550 U	520 UJ L	530 U	560 U	520 U
Hexachloroethane	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Hexachlorocyclopentadiene	ug/kg	520 U	540 U	550 U	520 U	530 U	560 U	520 U
Isophorone	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Acenaphthene	ug/kg	1.7 U	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
Diethylphthalate	ug/kg	19 U	19 U	20 U	19 UJ S	19 U	20 U	19 U
Di-n-Butylphthalate	ug/kg	19 U	19 U	20 U	19 UJ S	19 U	20 U	8.0 J Z
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.6 J Z	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	0.73 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	47	19 U	20 U	8.6 J S, Z	19 U	20 U	26
N-Nitrosodiphenylamine	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Fluorene	ug/kg	1.7 U	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
Carbazole	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Pentachlorophenol	ug/kg	520 U	540 U	550 U	520 U	530 U	560 U	520 U
2,4,6-Trichlorophenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
2-Nitroaniline	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
2-Nitrophenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
1-Methylnaphthalene	ug/kg	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.7 U
Naphthalene	ug/kg	1.7 U	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
2-Methylnaphthalene	ug/kg	1.7 U	1.8 U	1.8 U	1.7 UJ S	1.8 U	1.9 U	1.7 U
2-Chloronaphthalene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
3,3`-Dichlorobenzidine	ug/kg	350 U	360 U	370 U	350 U	350 U	370 U	350 U
Benzidine	ug/kg	3500 U	3600 U	3700 U	3500 U	3500 U	3700 U	3500 U
2-Methylphenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
2-Chlorophenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
3-Nitroaniline	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U
Benzyl Alcohol	ug/kg	520 U	540 U	550 U	520 U	530 U	560 U	230 J Z
2,6-Dinitrotoluene	ug/kg	170 U	180 U	180 U	170 U	180 U	190 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-016-SA8S-SB-4.0-5.0	SL-017-SA8S-SS-0.0-0.5	SL-017-SA8S-SB-4.0-5.0	SL-018-SA8S-SS-0.0-0.5	SL-018-SA8S-SB-4.0-5.0	SL-018-SA8S-SB-7.5-8.5	SL-019-SA8S-SS-0.0-0.5
Sample Date		10/20/2011	09/30/2011	10/21/2011	09/30/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DE273	DE259	DE277	DE259	DE277	DE277	DE259
Start Depth		4	0	4	0	4	7.5	0
End Depth		5	0.5	5	0.5	5	8.5	0.5
Chemical Name	Unit							
N-Nitrosodimethylamine	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.7 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
4-Nitrophenol	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Phenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	27 J Z	--	21 J Z	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	9.5 J Z	--	34	--	20 U	14 J Z	18 U B
Di-N-Octyl Phthalate	ug/kg	19 U	19 U	50	19 U	20 U	19 U	18 U
Hexachlorobenzene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Anthracene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.7 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	0.91 J Z	1.9 U	1.8 U	1.3 J Z
Dimethylphthalate	ug/kg	19 U	19 U	20 U	19 U	20 U	19 U	18 U
Dibenzofuran	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Benzo(g,h,i)perylene	ug/kg	1.8 U	1.8 U	0.82 J Z	0.95 J Z	1.9 U	1.8 U	0.84 J Z
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	1.8 U	0.87 J Z	1.7 U	1.9 U	1.8 U	1.7 U
Benzo(b)fluoranthene	ug/kg	1.8 U	1.8 U	1.0 J Z	0.99 J Z	1.9 U	1.8 U	5.8
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.6 J Z	1.9 U	1.8 U	3
Benzo(k)fluoranthene	ug/kg	1.8 U	2	1.8 U	5	1.9 U	1.8 U	1.7 U
Acenaphthylene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	0.52 J Z
Chrysene	ug/kg	1.8 U	0.46 J Z	1.8 U	1.6 J Z	1.9 U	1.8 U	3.9
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Benzo(a)pyrene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.6 J Z
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1000 U	1100 U	1100 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.7 U
Benzo(a)anthracene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.2 J Z
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-016-SA8S-SB-4.0-5.0	SL-017-SA8S-SS-0.0-0.5	SL-017-SA8S-SB-4.0-5.0	SL-018-SA8S-SS-0.0-0.5	SL-018-SA8S-SB-4.0-5.0	SL-018-SA8S-SB-7.5-8.5	SL-019-SA8S-SS-0.0-0.5
Sample Date		10/20/2011	09/30/2011	10/21/2011	09/30/2011	10/21/2011	10/21/2011	09/30/2011
SDG		DE273	DE259	DE277	DE259	DE277	DE277	DE259
Start Depth		4	0	4	0	4	7.5	0
End Depth		5	0.5	5	0.5	5	8.5	0.5
Chemical Name	Unit							
Aniline	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
Benzoic Acid	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Hexachlorocyclopentadiene	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
Isophorone	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Acenaphthene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.7 U
Diethylphthalate	ug/kg	19 U	19 U	20 U	19 U	20 U	19 U	18 U
Di-n-Butylphthalate	ug/kg	8.2 J Z	19 U	20 U	19 U	20 U	19 U	18 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	0.88 J Z	1.9 U	1.8 U	0.81 J Z
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	210
Butylbenzylphthalate (8270C SIM)	ug/kg	13 J Z	19 U	20 U	19 U	20 U	19 U	--
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Fluorene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.1 J Z
Carbazole	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Pentachlorophenol	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
1-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.7 U
Naphthalene	ug/kg	1.8 U	1.8 U	1.8 U	0.75 J Z	1.9 U	1.8 U	1.7 U
2-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.7 U
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
3,3`-Dichlorobenzidine	ug/kg	360 U	360 U	360 U	340 U	370 U	350 U	340 U
Benzidine	ug/kg	3600 U	3600 U	3600 U	3400 U	3700 UJ Q	3500 U	3400 U
2-Methylphenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U
Benzyl Alcohol	ug/kg	540 U	540 U	540 U	520 U	550 U	530 U	510 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	170 U	180 U	180 U	170 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-019-SA8S-SB-4.0-5.0	SL-020-SA8S-SS-0.0-0.5	SL-020-SA8S-SB-4.0-5.0	SL-020-SA8S-SB-9.0-10.0	SL-021-SA8S-SS-0.0-0.5	SL-021-SA8S-SB-4.0-5.0
Sample Date		12/02/2011	09/30/2011	12/02/2011	12/02/2011	09/30/2011	12/02/2011
SDG		DE292	DE259	DE292	DE292	DE259	DE292
Start Depth		4	0	4	9	0	4
End Depth		5	0.5	5	10	0.5	5
Chemical Name	Unit						
N-Nitrosodimethylamine	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Nitrobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Hexachlorobutadiene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
4-Nitroaniline	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
4-Nitrophenol	ug/kg	530 U	540 U	560 U	560 U	540 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
4-Methylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
4-Chloroaniline	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Phenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	19 J Z	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U	--	20 U	20 U	300 J S	20 U
Di-N-Octyl Phthalate	ug/kg	19 U	19 U	20 U	20 U	19 U	20 U
Hexachlorobenzene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Anthracene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	35 J Z	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	--	1.8 U	6.8 J S	1.9 U
Dimethylphthalate	ug/kg	19 U	19 U	20 U	20 U	19 U	20 U
Dibenzofuran	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Benzo(g,h,i)perylene	ug/kg	1.8 U	1.3 J Z	1.9 U	1.8 U	1.3 J S, Z	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	0.79 J Z	1.9 U	1.8 U	0.84 J S, Z	1.9 U
Benzo(b)fluoranthene	ug/kg	1.8 U	1.2 J Z	1.9 U	1.8 U	8.1 J S	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	49 J Z	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	1.5 J Z	--	1.8 U	14 J S	1.9 U
Benzo(k)fluoranthene	ug/kg	1.8 U	3.3	1.9 U	1.8 U	33 J S	1.9 U
Acenaphthylene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	5.5 J S	1.9 U
Chrysene	ug/kg	1.8 U	1.6 J Z	1.9 U	1.8 U	16 J S	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Benzo(a)pyrene	ug/kg	1.8 U	0.75 J Z	1.9 U	1.8 U	7.6 J S	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 U	540 U	560 U	560 U	540 U	560 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	2.2 J S	1.9 U
Benzo(a)anthracene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	19 J S	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-019-SA8S-SB-4.0-5.0	SL-020-SA8S-SS-0.0-0.5	SL-020-SA8S-SB-4.0-5.0	SL-020-SA8S-SB-9.0-10.0	SL-021-SA8S-SS-0.0-0.5	SL-021-SA8S-SB-4.0-5.0
Sample Date		12/02/2011	09/30/2011	12/02/2011	12/02/2011	09/30/2011	12/02/2011
SDG		DE292	DE259	DE292	DE292	DE259	DE292
Start Depth		4	0	4	9	0	4
End Depth		5	0.5	5	10	0.5	5
Chemical Name	Unit						
Aniline	ug/kg	530 U	540 U	560 U	560 U	540 U	560 U
Benzoic Acid	ug/kg	530 R Q	540 U	560 U	560 U	540 U	560 U
Hexachloroethane	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	530 U	540 U	560 U	560 U	540 U	560 U
Isophorone	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Acenaphthene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Diethylphthalate	ug/kg	19 U	19 U	20 U	20 U	19 U	20 U
Di-n-Butylphthalate	ug/kg	19 U	19 U	20 U	20 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	52 J Z	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.8 U	--	1.8 U	3.1 J S	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	220	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	--	20 U	20 U	220	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Fluorene	ug/kg	1.8 U	0.74 J Z	1.9 U	1.8 U	5.2 J S	1.9 U
Carbazole	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Pentachlorophenol	ug/kg	530 U	540 U	560 U	560 U	540 U	560 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
2-Nitroaniline	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
2-Nitrophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
1-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Naphthalene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.0 J S, Z	1.9 U
2-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	350 U	360 U	380 U	370 U	360 U	370 U
Benzidine	ug/kg	3500 R Q	3600 U	3800 U	3700 U	3600 U	3700 U
2-Methylphenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
2-Chlorophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
3-Nitroaniline	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U
Benzyl Alcohol	ug/kg	530 U	540 U	560 U	560 U	540 U	560 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	190 U	190 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-021-SA8S-SB-9.0-10.0	SL-022-SA8S-SS-0.0-0.5	SL-022-SA8S-SB-4.0-5.0	SL-022-SA8S-SB-8.0-9.0	SL-023-SA8S-SS-0.0-0.5	SL-023-SA8S-SB-4.0-5.0
Sample Date		12/02/2011	09/30/2011	12/01/2011	12/01/2011	09/30/2011	12/01/2011
SDG		DE292	DE259	DE291	DE291	DE259	DE291
Start Depth		9	0	4	8	0	4
End Depth		10	0.5	5	9	0.5	5
Chemical Name	Unit						
N-Nitrosodimethylamine	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Nitrobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Hexachlorobutadiene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
4-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
4-Nitrophenol	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
4-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
4-Chloroaniline	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Phenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	22 J Z	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	19 U B	20 U	20 U	19 U	7.7 J Z
Di-N-Octyl Phthalate	ug/kg	20 U	19 U	20 U	20 U	19 U	20 U
Hexachlorobenzene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Anthracene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Dimethylphthalate	ug/kg	20 U	19 U	20 U	20 U	19 U	20 U
Dibenzofuran	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Benzo(g,h,i)perylene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Benzo(b)fluoranthene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Benzo(k)fluoranthene	ug/kg	1.8 U	1.4 J Z	1.9 U	1.9 U	1.6 J Z	1.9 U
Acenaphthylene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Chrysene	ug/kg	1.8 U	0.51 J Z	1.9 U	1.9 U	1.8 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Benzo(a)pyrene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Benzo(a)anthracene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Sample Name		SL-021-SA8S-SB-9.0-10.0	SL-022-SA8S-SS-0.0-0.5	SL-022-SA8S-SB-4.0-5.0	SL-022-SA8S-SB-8.0-9.0	SL-023-SA8S-SS-0.0-0.5	SL-023-SA8S-SB-4.0-5.0
Sample Date		12/02/2011	09/30/2011	12/01/2011	12/01/2011	09/30/2011	12/01/2011
SDG		DE292	DE259	DE291	DE291	DE259	DE291
Start Depth		9	0	4	8	0	4
End Depth		10	0.5	5	9	0.5	5
Chemical Name	Unit						
Aniline	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
Benzoic Acid	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
Hexachloroethane	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
Isophorone	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Acenaphthene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Diethylphthalate	ug/kg	20 U	19 U	20 U	20 U	19 U	20 U
Di-n-Butylphthalate	ug/kg	20 U	19 U	20 U	20 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	210	--	--	260	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	--	20 U	20 U	--	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Fluorene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Carbazole	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Pentachlorophenol	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
2-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
2-Nitrophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
1-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Naphthalene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2-Methylnaphthalene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	350 U	370 U	380 U	350 U	380 U
Benzidine	ug/kg	3700 U	3500 U	3700 U	3800 U	3500 U	3800 U
2-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
2-Chlorophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
3-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U
Benzyl Alcohol	ug/kg	560 U	530 U	560 U	570 U	530 U	570 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	190 U	190 U	180 U	190 U

U - Compound not detected above the reporting limit
J - Result is an estimated value
R - Result is rejected

Appendix A10
Semivolatiles - Validated Data
HSA-8S

Sample Name		SL-023-SA8S-SB-9.0-10.0	SL-024-SA8S-SS-0.0-0.5	SL-024-SA8S-SB-4.0-5.0	SL-024-SA8S-SB-7.0-8.0
Sample Date		12/01/2011	09/29/2011	11/16/2011	11/16/2011
SDG		DE291	DE258	DE287	DE287
Start Depth		9	0	4	7
End Depth		10	0.5	5	8
Chemical Name	Unit				
N-Nitrosodimethylamine	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	170 U	190 U	190 U
Nitrobenzene	ug/kg	180 U	170 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	170 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	170 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	170 U	190 U	190 U
Hexachlorobutadiene	ug/kg	180 U	170 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	170 U	190 U	190 U
4-Nitroaniline	ug/kg	180 U	170 U	190 U	190 U
4-Nitrophenol	ug/kg	550 U	520 U	560 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	170 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	170 U	190 U	190 U
4-Methylphenol	ug/kg	180 U	170 U	190 U	190 U
4-Chloroaniline	ug/kg	180 U	170 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	170 U	190 U	190 U
Phenol	ug/kg	180 U	170 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	170 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	170 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	19 J Z	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	19 U	7.2 J Z	20 U
Di-N-Octyl Phthalate	ug/kg	20 U	19 U	20 U	20 U
Hexachlorobenzene	ug/kg	180 U	170 U	190 U	190 U
Anthracene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	170 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	170 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Dimethylphthalate	ug/kg	20 U	19 U	20 U	20 U
Dibenzofuran	ug/kg	180 U	170 U	190 U	190 U
Benzo(g,h,i)perylene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Benzo(b)fluoranthene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Benzo(k)fluoranthene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Acenaphthylene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Chrysene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	170 U	190 U	190 U
Benzo(a)pyrene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1000 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	520 UJ L	560 U	570 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Benzo(a)anthracene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	170 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	170 U	190 U	190 U

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Sample Name		SL-023-SA8S-SB-9.0-10.0	SL-024-SA8S-SS-0.0-0.5	SL-024-SA8S-SB-4.0-5.0	SL-024-SA8S-SB-7.0-8.0
Sample Date		12/01/2011	09/29/2011	11/16/2011	11/16/2011
SDG		DE291	DE258	DE287	DE287
Start Depth		9	0	4	7
End Depth		10	0.5	5	8
Chemical Name	Unit				
Aniline	ug/kg	550 U	520 U	560 U	570 U
Benzoic Acid	ug/kg	550 U	520 UJ L	560 U	570 U
Hexachloroethane	ug/kg	180 U	170 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	170 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	550 U	520 U	560 U	570 U
Isophorone	ug/kg	180 U	170 U	190 U	190 U
Acenaphthene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Diethylphthalate	ug/kg	20 U	19 U	20 U	20 U
Di-n-Butylphthalate	ug/kg	20 U	19 U	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	19 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	170 U	190 U	190 U
Fluorene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Carbazole	ug/kg	180 U	170 U	190 U	190 U
Pentachlorophenol	ug/kg	550 U	520 U	560 U	570 U
2,4,6-Trichlorophenol	ug/kg	180 U	170 U	190 U	190 U
2-Nitroaniline	ug/kg	180 U	170 U	190 U	190 U
2-Nitrophenol	ug/kg	180 U	170 U	190 U	190 U
1-Methylnaphthalene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
Naphthalene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
2-Methylnaphthalene	ug/kg	1.8 U	1.7 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	170 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	350 U	370 U	380 U
Benzidine	ug/kg	3700 U	3500 U	3700 U	3800 U
2-Methylphenol	ug/kg	180 U	170 U	190 U	190 U
2-Chlorophenol	ug/kg	180 U	170 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	170 U	190 U	190 U
3-Nitroaniline	ug/kg	180 U	170 U	190 U	190 U
Benzyl Alcohol	ug/kg	550 U	520 U	560 U	570 U
2,6-Dinitrotoluene	ug/kg	180 U	170 U	190 U	190 U

U - Compound not detected above the reporting limit
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