Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7439-92-1	LEAD	14.8		0.530	3.18	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7439-93-2	LITHIUM	22.7		0.36	4.2	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7439-95-4	MAGNESIUM	4240		1.77	10.6	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7439-96-5	MANGANESE	283		0.0880	1.06	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7439-98-7	MOLYBDENUM	2.12	UJ	0.180	2.12	mg/kg	J	UJ	F, FD, B	1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7440-02-0	NICKEL	10.7		0.138	2.12	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7440-09-7	POTASSIUM	3490		8.84	106	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7440-23-5	SODIUM	78.3	J	17.7	106	mg/kg	J	J	Z	1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7440-31-5	TIN	10.6	U	0.233	10.6	mg/kg	J	U	B	1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7440-32-6	TITANIUM METAL POWDER	1010		0.180	1.06	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7440-36-0	ANTIMONY	4.24	UJ	0.784	4.24	mg/kg	U	UJ	Q	1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7440-38-2	ARSENIC	3.24	J	0.742	4.24	mg/kg	J	J	Z	1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7440-39-3	BARIUM	71.5		0.0350	1.06	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7440-41-7	BERYLLIUM	0.477	J	0.0710	1.06	mg/kg	J	J	Z	1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7440-42-8	BORON	4.79	J	0.890	10.6	mg/kg	J	J	Z	1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7440-43-9	CADMIUM	0.447	J	0.0806	1.06	mg/kg	J	J	Z	1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7440-47-3	CHROMIUM	16.7		0.170	3.18	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7440-48-4	COBALT	4.8		0.105	1.06	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7440-50-8	COPPER	4.81		0.307	2.12	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7440-62-2	VANADIUM (FUME OR DUST)	31.2		0.138	1.06	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7440-66-6	ZINC	57.2		0.212	4.24	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7440-67-7	ZIRCONIUM	1.66	J	0.890	5.30	mg/kg	J	J	Z	1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7440-70-2	CALCIUM METAL	5070		3.54	21.2	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6010C	12/16/2013	PH139	7.5	1	7723-14-0	PHOSPHORUS	431		3.06	10.6	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6020A	12/17/2013	PH139	7.5	2	7782-49-2	SELENIUM	0.203	J	0.106	0.424	mg/kg	J	J	Z	1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6020A	12/17/2013	PH139	7.5	2	7440-22-4	SILVER	0.201	J	0.0276	0.212	mg/kg	J	J	Z	1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6020A	12/17/2013	PH139	7.5	2	7440-24-6	STRONTIUM	25.3	J	0.0721	0.424	mg/kg		J	Q	1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	6020A	12/17/2013	PH139	7.5	2	7440-28-0	THALLIUM	0.213		0.0318	0.212	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	7471B	12/17/2013	PH139	7.5	1	7439-97-6	MERCURY	0.182		0.0103	0.0171	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8015M	12/13/2013	PH139	7.5	5	PHCC12C14	EFH (C12-C14)	27	U	11	27	mg/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8015M	12/13/2013	PH139	7.5	5	PHCC15C20	EFH (C15-C20)	35		11	27	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8015M	12/13/2013	PH139	7.5	5	PHCC21C30	EFH (C21-C30)	150		11	27	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8015M	12/13/2013	PH139	7.5	5	PHCC30C40	EFH (C30-C40)	370		22	54	mg/kg				1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8015M	12/13/2013	PH139	7.5	5	PHCC8C11	EFH (C8-C11)	27	U	11	27	mg/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8082A	12/11/2013	PH139	7.5	1	11096-82-5	Aroclor 1260	18	U	4.2	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8082A	12/11/2013	PH139	7.5	1	11097-69-1	Aroclor 1254	18	U	4.8	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8082A	12/11/2013	PH139	7.5	1	11100-14-4	Aroclor 1268	18	U	3.6	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8082A	12/11/2013	PH139	7.5	1	11104-28-2	Aroclor 1221	18	U	5.5	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8082A	12/11/2013	PH139	7.5	1	11126-42-4	Aroclor 5460	36	U	11	36	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8082A	12/11/2013	PH139	7.5	1	11141-16-5	Aroclor 1232	18	U	4.4	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8082A	12/11/2013	PH139	7.5	1	12642-23-8	Aroclor 5442	36	U	11	36	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8082A	12/11/2013	PH139	7.5	1	12672-29-6	Aroclor 1248	18	U	3.6	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8082A	12/11/2013	PH139	7.5	1	12674-11-2	Aroclor 1016	18	U	3.6	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8082A	12/11/2013	PH139	7.5	1	37324-23-5	Aroclor 1262	18	U	3.6	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8082A	12/11/2013	PH139	7.5	1	53469-21-9	Aroclor 1242	18	U	4.4	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8082A	12/11/2013	PH139	7.5	1	63496-31-1	Aroclor 5432	36	U	11	36	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	190	U	65	190	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	117-84-0	Di-n-octylphthalate	190	U	65	190	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	120-12-7	ANTHRACENE	18	U	3.6	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	129-00-0	PYRENE	18	U	7.2	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	131-11-3	DIMETHYL PHTHALATE	190	U	65	190	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	191-24-2	BENZO(G,H,I)PERYLENE	18	U	7.2	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	192-97-2	Benzo(e)pyrene	180	U	36	180	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	193-39-5	INDENO(1,2,3-CD)PYRENE	18	U	7.2	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	205-99-2	BENZO(B)FLUORANTHENE	15	J	7.2	18	ug/kg	J	J	FD, Z	1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	206-44-0	FLUORANTHENE	18	U	7.2	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	207-08-9	BENZO(K)FLUORANTHENE	18	U	7.2	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	208-96-8	ACENAPHTHYLENE	18	U	3.6	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	218-01-9	Chrysene	20	J	3.6	18	ug/kg		J	FD	1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	50-32-8	BENZO(A)PYRENE	18	U	7.2	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	53-70-3	DIBENZO(A,H)ANTHRACENE	18	U	7.2	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	56-55-3	BENZO(A)ANTHRACENE	18	U	7.2	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	18	U	7.2	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	83-32-9	ACENAPHTHENE	18	U	7.2	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	84-66-2	DIETHYL PHTHALATE	190	U	65	190	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	84-74-2	Di-n-butylphthalate	190	U	65	190	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	85-01-8	PHENANTHRENE	18	U	7.2	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	85-68-7	BENZYL BUTYL PHTHALATE	190	U	65	190	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	86-73-7	FLUORENE	18	U	7.2	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	90-12-0	1-METHYLNAPHTHALENE	18	U	7.2	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	91-20-3	NAPHTHALENE	12	J	7.2	18	ug/kg	J	J	FD, Z	1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	8270D SIM	12/24/2013	PH139	7.5	10	91-57-6	2-METHYLNAPHTHALENE	18	U	7.2	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	9012B	12/16/2013	PH139	7.5	1	57-12-5	CYANIDE	0.52	U	0.19	0.52	mg/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	9045M	12/5/2013	PH139	7.5	1	pH	PH	6.97		0.0100	0.0100	pH unit				1787238.443	269060.427	-118.704858	34.237303
SL-546-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301922	LL	160.3M	12/12/2013	PH139	3.1	1	MOIST	MOISTURE	3.1		0.10	0.10	%				1787302.438	269309.109	-118.704652	34.237988
SL-546-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301922	LL	8015M	12/13/2013	PH139	3.1	5	PHCC12C14	EFH (C12-C14)	26	U	10	26	mg/kg	U			1787302.438	269309.109	-118.704652	34.237988
SL-546-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301922	LL	8015M	12/13/2013	PH139	3.1	5	PHCC15C20	EFH (C15-C20)	11	J	10	26	mg/kg	J	J	Z	1787302.438	269309.109	-118.704652	34.237988
SL-546-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301922	LL	8015M	12/13/2013	PH139	3.1	5	PHCC21C30	EFH (C21-C30)	76		10	26	mg/kg				1787302.438	269309.109	-118.704652	34.237988
SL-546-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301922	LL	8015M	12/13/2013	PH139	3.1	5	PHCC30C40	EFH (C30-C40)	250		21	52	mg/kg				1787302.438	269309.109	-118.704652	34.237988
SL-546-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301922	LL	8015M	12/13/2013	PH139	3.1	5	PHCC8C11	EFH (C8-C11)	26	U	10	26	mg/kg	U			1787302.438	269309.109	-118.704652	34.237988

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-547-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301923	LL	160.3M	12/12/2013	PH139	5.4	1	MOIST	MOISTURE	5.4		0.10	0.10	%				1787492.289	269701.388	-118.704033	34.23907
SL-547-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301923	LL	8015M	12/13/2013	PH139	5.4	2	PHCC12C14	EFH (C12-C14)	11	U	4.2	11	mg/kg	U			1787492.289	269701.388	-118.704033	34.23907
SL-547-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301923	LL	8015M	12/13/2013	PH139	5.4	2	PHCC15C20	EFH (C15-C20)	10	J	4.2	11	mg/kg	J	J	Z	1787492.289	269701.388	-118.704033	34.23907
SL-547-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301923	LL	8015M	12/13/2013	PH139	5.4	2	PHCC21C30	EFH (C21-C30)	62		4.2	11	mg/kg				1787492.289	269701.388	-118.704033	34.23907
SL-547-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301923	LL	8015M	12/13/2013	PH139	5.4	2	PHCC30C40	EFH (C30-C40)	150		8.5	21	mg/kg				1787492.289	269701.388	-118.704033	34.23907
SL-547-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301923	LL	8015M	12/13/2013	PH139	5.4	2	PHCC8C11	EFH (C8-C11)	11	U	4.2	11	mg/kg	U			1787492.289	269701.388	-118.704033	34.23907
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	160.3M	12/12/2013	PH139	3.3	1	MOIST	MOISTURE	3.3		0.10	0.10	%				1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	1613B	12/17/2013	PH139	3.3	1	1746-01-6	2,3,7,8-TCDD	0.994	U	0.0572	0.994	ng/kg	JBQ	U	B	1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	1613B	12/17/2013	PH139	3.3	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	4.97	U	0.0251	4.97	ng/kg	JBQ	U	B	1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	1613B	12/17/2013	PH139	3.3	1	3268-87-9	OCDD	9.94	U	0.0394	9.94	ng/kg	JB	U	B	1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	1613B	12/17/2013	PH139	3.3	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	4.97	U	0.0275	4.97	ng/kg	JB	U	B	1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	1613B	12/17/2013	PH139	3.3	1	39001-02-0	OCDF	9.94	U	0.0491	9.94	ng/kg	JBQ	U	B	1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	1613B	12/17/2013	PH139	3.3	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	4.97	U	0.0254	4.97	ng/kg	JBQ	U	B	1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	1613B	12/17/2013	PH139	3.3	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	4.97	U	0.0385	4.97	ng/kg	JBQ	U	B	1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	1613B	12/17/2013	PH139	3.3	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	0.994	U	0.0553	0.994	ng/kg	JBQ	U	B	1787698.365	269193.639	-118.703339	34.237678
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	1613B	12/17/2013	PH141	1.6	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	4.86	U	0.0284	4.86	ng/kg	JBQ	U	B	1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	1613B	12/17/2013	PH141	1.6	1	57117-31-4	2,3,4,7,8-PECDF	4.86	U	0.0274	4.86	ng/kg	JBQ	U	B	1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	1613B	12/17/2013	PH141	1.6	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	4.86	U	0.0277	4.86	ng/kg	JBQ	U	B	1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	1613B	12/17/2013	PH141	1.6	1	57117-44-9	1,2,3,6,7,8-HXCDF	4.86	U	0.0334	4.86	ng/kg	JB	U	B	1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	1613B	12/17/2013	PH141	1.6	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	4.86	U	0.0321	4.86	ng/kg	JBQ	U	B	1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	1613B	12/17/2013	PH141	1.6	1	60851-34-5	2,3,4,6,7,8-HXCDF	4.86	U	0.0326	4.86	ng/kg	JBQ	U	B	1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	1613B	12/17/2013	PH141	1.6	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	4.86	U	0.0212	4.86	ng/kg	JB	U	B	1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	1613B	12/17/2013	PH141	1.6	1	70648-26-9	1,2,3,4,7,8-HXCDF	4.86	U	0.0354	4.86	ng/kg	JB	U	B	1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	1613B	12/17/2013	PH141	1.6	1	72918-21-9	1,2,3,7,8,9-HXCDF	4.86	U	0.0366	4.86	ng/kg	JBQ	U	B	1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8015M	12/13/2013	PH141	1.6	1	PHCC12C14	EFH (C12-C14)	5.1	U	2.0	5.1	mg/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8015M	12/13/2013	PH141	1.6	1	PHCC15C20	EFH (C15-C20)	2.2	J	2.0	5.1	mg/kg	J	J	Z	1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8015M	12/13/2013	PH141	1.6	1	PHCC21C30	EFH (C21-C30)	11		2.0	5.1	mg/kg				1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8015M	12/13/2013	PH141	1.6	1	PHCC30C40	EFH (C30-C40)	19		4.1	10	mg/kg				1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8015M	12/13/2013	PH141	1.6	1	PHCC8C11	EFH (C8-C11)	5.1	U	2.0	5.1	mg/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	1024-57-3	HEPTACHLOR EPOXIDE	0.84	U	0.17	0.84	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	1031-07-8	ENDOSULFAN SULFATE	1.7	U	0.34	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	2385-85-5	MIREX	1.7	U	0.36	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	309-00-2	ALDRIN	0.84	U	0.17	0.84	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	319-84-6	ALPHA-BHC	0.84	U	0.17	0.84	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	319-85-7	BETA-BHC	1.9	U	0.98	1.9	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	319-86-8	DELTA-BHC	0.84	U	0.46	0.84	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	33213-65-9	ENDOSULFAN II	1.7	U	0.34	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	50-29-3	4,4'-DDT	1.7	U	0.36	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	53494-70-5	ENDRIN KETONE	1.8	U	0.61	1.8	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	57-74-9	CHLORDANE	17	U	4.1	17	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	58-89-9	gamma-BHC (Lindane)	0.84	U	0.17	0.84	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	60-57-1	DIELDRIN	1.7	U	0.34	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	72-20-8	ENDRIN	1.7	U	0.34	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	72-43-5	Methoxychlor	6.8	U	1.7	6.8	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	72-54-8	4,4'-DDD	1.7	U	0.34	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	72-55-9	4,4'-DDE	1.7	U	0.34	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	7421-93-4	ENDRIN ALDEHYDE	1.7	U	0.34	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	76-44-8	HEPTACHLOR	0.84	U	0.17	0.84	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	8001-35-2	Toxaphene	34	U	14	34	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8081B	12/16/2013	PH141	1.6	1	959-98-8	ENDOSULFAN I	0.84	U	0.22	0.84	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	18	U	6.1	18	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	117-84-0	Di-n-octylphthalate	18	U	6.1	18	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	120-12-7	ANTHRACENE	1.7	U	0.34	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	129-00-0	PYRENE	0.88	J	0.67	1.7	ug/kg	J	J	Z	1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	131-11-3	DIMETHYL PHTHALATE	18	U	6.1	18	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	191-24-2	BENZO(G,H,I)PERYLENE	1.7	U	0.67	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	192-97-2	Benzo(e)pyrene	17	U	3.4	17	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.7	U	0.67	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	205-99-2	BENZO(B)FLUORANTHENE	0.78	J	0.67	1.7	ug/kg	J	J	Z	1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	206-44-0	FLUORANTHENE	0.72	J	0.67	1.7	ug/kg	J	J	Z	1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	207-08-9	BENZO(K)FLUORANTHENE	1.7	U	0.67	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.34	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	218-01-9	Chrysene	0.71	J	0.34	1.7	ug/kg	J	J	Z	1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	50-32-8	BENZO(A)PYRENE	1.7	U	0.67	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.67	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	56-55-3	BENZO(A)ANTHRACENE	1.7	U	0.67	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.67	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	83-32-9	ACENAPHTHENE	1.7	U	0.67	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	84-66-2	DIETHYL PHTHALATE	18	U	6.1	18	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	84-74-2	Di-n-butylphthalate	18	U	6.1	18	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	85-01-8	PHENANTHRENE	1.7	U	0.67	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	85-68-7	BENZYL BUTYL PHTHALATE	18	U	6.1	18	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	86-73-7	FLUORENE	1.7	U	0.67	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	90-12-0	1-METHYLNAPHTHALENE	1.7	U	0.67	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	91-20-3	NAPHTHALENE	1.7	U	0.67	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	8270D SIM	12/27/2013	PH141	1.6	1	91-57-6	2-METHYLNAPHTHALENE	1.7	U	0.67	1.7	ug/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	160.3M	12/13/2013	PH141	3.4	1	MOIST	MOISTURE	3.4		0.10	0.10	%				1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8015M	12/13/2013	PH141	3.4	5	PHCC12C14	EFH (C12-C14)	26	U	10	26	mg/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8015M	12/13/2013	PH141	3.4	5	PHCC15C20	EFH (C15-C20)	28		10	26	mg/kg				1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8015M	12/13/2013	PH141	3.4	5	PHCC21C30	EFH (C21-C30)	180		10	26	mg/kg				1784723.302	267738.472	-118.713148	34.233622

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8015M	12/13/2013	PH141	3.4	5	PHCC30C40	EFH (C30-C40)	490		21	52	mg/kg				1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8015M	12/13/2013	PH141	3.4	5	PHCC8C11	EFH (C8-C11)	26	U	10	26	mg/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/17/2013	PH141	3.4	1	33213-65-9	ENDOSULFAN II	1.8	U	0.34	1.8	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	1024-57-3	HEPTACHLOR EPOXIDE	0.86	U	0.18	0.86	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	1031-07-8	ENDOSULFAN SULFATE	1.8	U	0.34	1.8	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	2385-85-5	MIREX	1.8	U	0.36	1.8	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	309-00-2	ALDRIN	0.86	U	0.18	0.86	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	319-84-6	ALPHA-BHC	0.86	U	0.18	0.86	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	319-85-7	BETA-BHC	2	U	0.99	2.0	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	319-86-8	DELTA-BHC	0.86	U	0.47	0.86	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	50-29-3	4,4'-DDT	2.6		0.36	1.8	ug/kg				1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	53494-70-5	ENDRIN KETONE	1.9	U	0.62	1.9	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	57-74-9	CHLORDANE	18	U	4.1	18	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	58-89-9	gamma-BHC (Lindane)	0.86	U	0.18	0.86	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	60-57-1	DIELDRIN	1.8	U	0.34	1.8	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	72-20-8	ENDRIN	1.8	U	0.34	1.8	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	72-43-5	Methoxychlor	6.9	U	1.8	6.9	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	72-54-8	4,4'-DDD	1.8	U	0.34	1.8	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	72-55-9	4,4'-DDE	2.7		0.34	1.8	ug/kg				1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	7421-93-4	ENDRIN ALDEHYDE	0.4	J	0.34	1.8	ug/kg	J	J	Z	1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	76-44-8	HEPTACHLOR	0.86	U	0.18	0.86	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	8001-35-2	Toxaphene	34	U	14	34	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8081B	12/16/2013	PH141	3.4	1	959-98-8	ENDOSULFAN I	0.86	U	0.23	0.86	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8151A	12/15/2013	PH141	3.4	1	120-36-5	DICHLORPROP	17	U	9.2	17	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8151A	12/15/2013	PH141	3.4	1	1918-00-9	DICAMBA	12	U	4.1	12	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8151A	12/15/2013	PH141	3.4	1	75-99-0	2,2-DICHLOR0PROPIONIC ACID	92	U	53	92	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8151A	12/15/2013	PH141	3.4	1	88-85-7	DINITROBUTYL PHENOL	25	U	9.2	25	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8151A	12/15/2013	PH141	3.4	1	93-65-2	MCPP	2600	U	770	2600	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8151A	12/15/2013	PH141	3.4	1	93-72-1	2,4,5-TP (Silvex)	0.97	J	0.77	1.7	ug/kg	J	J	Z	1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8151A	12/15/2013	PH141	3.4	1	93-76-5	2,4,5-T	2		0.84	1.7	ug/kg				1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8151A	12/15/2013	PH141	3.4	1	94-74-6	MCPA (2-METHYL-4-CHLOROPHENOXYACETIC A	2600	U	780	2600	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8151A	12/15/2013	PH141	3.4	1	94-75-7	2,4-D	37	U	12	37	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305597	LL	8151A	12/15/2013	PH141	3.4	1	94-82-6	2,4-DB	26	U	26	26	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	160.3M	12/13/2013	PH141	3.6	1	MOIST	MOISTURE	3.6		0.10	0.10	%				1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8015M	12/16/2013	PH141	3.6	25.1	GROC5C12	GASOLINE RANGE ORGANICS (C5-C12)	1	U	0.2	1.0	mg/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8015M	12/13/2013	PH141	3.6	1	PHCC12C14	EFH (C12-C14)	5.2	U	2.1	5.2	mg/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8015M	12/13/2013	PH141	3.6	1	PHCC15C20	EFH (C15-C20)	5.2		2.1	5.2	mg/kg				1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8015M	12/13/2013	PH141	3.6	1	PHCC21C30	EFH (C21-C30)	30		2.1	5.2	mg/kg				1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8015M	12/13/2013	PH141	3.6	1	PHCC30C40	EFH (C30-C40)	74		4.1	10	mg/kg				1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8015M	12/13/2013	PH141	3.6	1	PHCC8C11	EFH (C8-C11)	5.2	U	2.1	5.2	mg/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	1024-57-3	HEPTACHLOR EPOXIDE	0.86	U	0.18	0.86	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	1031-07-8	ENDOSULFAN SULFATE	1.8	U	0.34	1.8	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	2385-85-5	MIREX	1.8	U	0.36	1.8	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	309-00-2	ALDRIN	0.86	U	0.18	0.86	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	319-84-6	ALPHA-BHC	0.86	U	0.18	0.86	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	319-85-7	BETA-BHC	2	U	1.0	2.0	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	319-86-8	DELTA-BHC	0.86	U	0.47	0.86	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	33213-65-9	ENDOSULFAN II	1.8	U	0.34	1.8	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	50-29-3	4,4'-DDT	1.8	U	0.36	1.8	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	53494-70-5	ENDRIN KETONE	1.9	U	0.62	1.9	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	57-74-9	CHLORDANE	18	U	4.1	18	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	58-89-9	gamma-BHC (Lindane)	0.86	U	0.18	0.86	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	60-57-1	DIELDRIN	1.8	U	0.34	1.8	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	72-20-8	ENDRIN	1.8	U	0.34	1.8	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	72-43-5	Methoxychlor	7	U	1.8	7.0	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	72-54-8	4,4'-DDD	1.8	U	0.34	1.8	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	72-55-9	4,4'-DDE	1.8	U	0.34	1.8	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	7421-93-4	ENDRIN ALDEHYDE	1.8	U	0.34	1.8	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	76-44-8	HEPTACHLOR	0.86	U	0.18	0.86	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	8001-35-2	Toxaphene	34	U	15	34	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8081B	12/16/2013	PH141	3.6	1	959-98-8	ENDOSULFAN I	0.86	U	0.23	0.86	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8151A	12/15/2013	PH141	3.6	1	120-36-5	DICHLORPROP	17	U	9.2	17	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8151A	12/15/2013	PH141	3.6	1	1918-00-9	DICAMBA	12	U	4.1	12	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8151A	12/15/2013	PH141	3.6	1	75-99-0	2,2-DICHLOR0PROPIONIC ACID	100	U	100	100	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8151A	12/15/2013	PH141	3.6	1	88-85-7	DINITROBUTYL PHENOL	25	U	9.2	25	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8151A	12/15/2013	PH141	3.6	1	93-65-2	MCPP	2600	U	770	2600	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6020A	1/4/2014	PH148	3.7	2	7782-49-2	SELENIUM	0.284	J	0.0998	0.399	mg/kg	J	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6020A	1/4/2014	PH148	3.7	2	7440-22-4	SILVER	0.0426	J	0.0260	0.200	mg/kg	J	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6020A	1/4/2014	PH148	3.7	2	7440-24-6	STRONTIUM	9.84		0.0679	0.399	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6020A	1/4/2014	PH148	3.7	2	7440-28-0	THALLIUM	0.218		0.0300	0.200	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	7471B	12/23/2013	PH148	3.7	1	7439-97-6	MERCURY	0.0109	J	0.0102	0.0170	mg/kg	J	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8015M	12/23/2013	PH148	3.7	1	PHCC12C14	EFH (C12-C14)	5.1	U	2.1	5.1	mg/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8015M	12/23/2013	PH148	3.7	1	PHCC15C20	EFH (C15-C20)	5.1	U	2.1	5.1	mg/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8015M	12/23/2013	PH148	3.7	1	PHCC21C30	EFH (C21-C30)	15	J	2.1	5.1	mg/kg		J	FD	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8015M	12/23/2013	PH148	3.7	1	PHCC30C40	EFH (C30-C40)	30	J	4.1	10	mg/kg		J	Q	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8015M	12/23/2013	PH148	3.7	1	PHCC8C11	EFH (C8-C11)	5.1	U	2.1	5.1	mg/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	1024-57-3	HEPTACHLOR EPOXIDE	0.86	U	0.18	0.86	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	1031-07-8	ENDOSULFAN SULFATE	1.8	U	0.34	1.8	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	2385-85-5	MIREX	1.8	U	0.36	1.8	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	309-00-2	ALDRIN	0.86	U	0.18	0.86	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	319-84-6	ALPHA-BHC	0.86	U	0.18	0.86	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	319-85-7	BETA-BHC	2	U	1.0	2.0	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	319-86-8	DELTA-BHC	0.86	U	0.47	0.86	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	33213-65-9	ENDOSULFAN II	1.8	U	0.34	1.8	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	50-29-3	4,4'-DDT	0.9	J	0.36	1.8	ug/kg	J	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	53494-70-5	ENDRIN KETONE	1.9	U	0.62	1.9	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	57-74-9	CHLORDANE	18	U	4.2	18	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	58-89-9	gamma-BHC (Lindane)	0.86	U	0.18	0.86	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	60-57-1	DIELDRIN	1.8	U	0.34	1.8	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	72-20-8	ENDRIN	1.8	U	0.34	1.8	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	72-43-5	Methoxychlor	7	U	1.8	7.0	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	72-54-8	4,4'-DDD	1.8	U	0.34	1.8	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	72-55-9	4,4'-DDE	0.64	J	0.34	1.8	ug/kg	J	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	7421-93-4	ENDRIN ALDEHYDE	1.8	U	0.34	1.8	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	76-44-8	HEPTACHLOR	0.86	U	0.18	0.86	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	8001-35-2	Toxaphene	34	U	15	34	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8081B	12/23/2013	PH148	3.7	1	959-98-8	ENDOSULFAN I	0.86	U	0.23	0.86	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	18	U	6.1	18	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	117-84-0	Di-n-octylphthalate	18	U	6.1	18	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	120-12-7	ANTHRACENE	1.7	U	0.34	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	129-00-0	PYRENE	2	J	0.68	1.7	ug/kg		J	FD	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	131-11-3	DIMETHYL PHTHALATE	18	U	6.1	18	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	191-24-2	BENZO(G,H,I)PERYLENE	1.7	U	0.68	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	192-97-2	Benzo(e)pyrene	17	U	3.4	17	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.7	U	0.68	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	205-99-2	BENZO(B)FLUORANTHENE	2.5	J	0.68	1.7	ug/kg		J	FD	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	206-44-0	FLUORANTHENE	2.1	J	0.68	1.7	ug/kg		J	FD	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	207-08-9	BENZO(K)FLUORANTHENE	1	J	0.68	1.7	ug/kg	J	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.34	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	218-01-9	Chrysene	2.1	J	0.34	1.7	ug/kg		J	FD	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	50-32-8	BENZO(A)PYRENE	1.2	J	0.68	1.7	ug/kg	J	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.68	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	56-55-3	BENZO(A)ANTHRACENE	1.2	J	0.68	1.7	ug/kg	J	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.68	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	83-32-9	ACENAPHTHENE	1.7	U	0.68	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	84-66-2	DIETHYL PHTHALATE	18	U	6.1	18	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	84-74-2	Di-n-butylphthalate	18	U	6.1	18	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	85-01-8	PHENANTHRENE	1.5	J	0.68	1.7	ug/kg	J	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	85-68-7	BENZYL BUTYL PHTHALATE	18	U	6.1	18	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	86-73-7	FLUORENE	1.7	U	0.68	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	90-12-0	1-METHYLNAPHTHALENE	0.72	J	0.68	1.7	ug/kg	J	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	91-20-3	NAPHTHALENE	1.7		0.68	1.7	ug/kg				1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	8270D SIM	1/2/2014	PH148	3.7	1	91-57-6	2-METHYLNAPHTHALENE	0.85	J	0.68	1.7	ug/kg	J	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	9045M	12/13/2013	PH148	3.7	1	pH	PH	6.47		0.0100	0.0100	pH unit				1787147.609	268982.757	-118.705156	34.237088
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	160.3M	12/20/2013	PH151	4.2	1	MOIST	MOISTURE	4.2		0.10	0.10	%				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	1613B	12/24/2013	PH151	4.2	1	1746-01-6	2,3,7,8-TCDD	1.02	U	0.0547	1.02	ng/kg	U			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	1613B	12/24/2013	PH151	4.2	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	0.286	J	0.0376	5.11	ng/kg	JBQ	J	Z	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	1613B	12/24/2013	PH151	4.2	1	3268-87-9	OCDD	15.6		0.0253	10.2	ng/kg	B			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	1613B	12/24/2013	PH151	4.2	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	2.19	J	0.0307	5.11	ng/kg	JB	J	Z	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	1613B	12/24/2013	PH151	4.2	1	39001-02-0	OCDF	1.1	J	0.0339	10.2	ng/kg	JB	J	Z	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	1613B	12/24/2013	PH151	4.2	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.11	U	0.0389	5.11	ng/kg	JBQ	U	B	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	1613B	12/24/2013	PH151	4.2	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	5.11	U	0.0421	5.11	ng/kg	U			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	1613B	12/24/2013	PH151	4.2	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	0.161	J	0.0539	1.02	ng/kg	JQ	J	Z	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	1613B	12/24/2013	PH151	4.2	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	5.11	U	0.0322	5.11	ng/kg	JBQ	U	B	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	1613B	12/24/2013	PH151	4.2	1	57117-31-4	2,3,4,7,8-PECDF	5.11	U	0.0241	5.11	ng/kg	JBQ	U	B	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	1613B	12/24/2013	PH151	4.2	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	5.11	U	0.0272	5.11	ng/kg	JBQ	U	B	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	1613B	12/24/2013	PH151	4.2	1	57117-44-9	1,2,3,6,7,8-HXCDF	5.11	U	0.0251	5.11	ng/kg	JBQ	U	B	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	1613B	12/24/2013	PH151	4.2	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.11	U	0.0388	5.11	ng/kg	JB	U	B	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	1613B	12/24/2013	PH151	4.2	1	60851-34-5	2,3,4,6,7,8-HXCDF	5.11	U	0.0230	5.11	ng/kg	JBQ	U	B	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	1613B	12/24/2013	PH151	4.2	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	0.625	J	0.0286	5.11	ng/kg	JB	J	Z	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	1613B	12/24/2013	PH151	4.2	1	70648-26-9	1,2,3,4,7,8-HXCDF	5.11	U	0.0251	5.11	ng/kg	JBQ	U	B	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	1613B	12/24/2013	PH151	4.2	1	72918-21-9	1,2,3,7,8,9-HXCDF	5.11	U	0.0249	5.11	ng/kg	JB	U	B	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/27/2013	PH151	4.2	1	7429-90-5	ALUMINUM (FUME OR DUST)	14000		7.24	40.1	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/27/2013	PH151	4.2	1	7439-89-6	IRON	22900		3.63	40.1	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/27/2013	PH151	4.2	1	7439-95-4	MAGNESIUM	5690		1.68	10.0	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/27/2013	PH151	4.2	1	7440-70-2	CALCIUM METAL	6130		3.35	20.1	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7439-92-1	LEAD	13.7		0.502	3.01	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7439-93-2	LITHIUM	25.2		0.34	4.0	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7439-96-5	MANGANESE	332		0.0833	1.00	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7439-98-7	MOLYBDENUM	2.01	U	0.171	2.01	mg/kg	J	U	F	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7440-02-0	NICKEL	14.4		0.130	2.01	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7440-09-7	POTASSIUM	4130		8.37	100	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7440-23-5	SODIUM	65.8	J	16.8	100	mg/kg	J	J	Z	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7440-31-5	TIN	10	U	0.221	10.0	mg/kg	J	U	B	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7440-32-6	TITANIUM METAL POWDER	896		0.171	1.00	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7440-36-0	ANTIMONY	1.5	J	0.743	4.01	mg/kg	J	J	Q, Z	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7440-38-2	ARSENIC	5.36		0.703	4.01	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7440-39-3	BARIUM	74.8		0.0331	1.00	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7440-41-7	BERYLLIUM	0.66	J	0.0672	1.00	mg/kg	J	J	Z	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7440-42-8	BORON	8.25	J	0.843	10.0	mg/kg	J	J	Z	1782577.644	268192.82	-118.720257	34.234829

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7440-43-9	CADMIUM	1	U	0.0763	1.00	mg/kg	U			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7440-47-3	CHROMIUM	21.1		0.161	3.01	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7440-48-4	COBALT	6.83		0.0994	1.00	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7440-50-8	COPPER	12.5		0.291	2.01	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7440-62-2	VANADIUM (FUME OR DUST)	38.2		0.130	1.00	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7440-66-6	ZINC	67.1		0.201	4.01	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7440-67-7	ZIRCONIUM	3.07	J	0.843	5.02	mg/kg	J	J	Z	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6010C	12/26/2013	PH151	4.2	1	7723-14-0	PHOSPHORUS	508	J	2.90	10.0	mg/kg		J	Q	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6020A	1/7/2014	PH151	4.2	5	7440-24-6	STRONTIUM	28.7		0.171	1.00	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6020A	1/4/2014	PH151	4.2	2	7782-49-2	SELENIUM	0.15	J	0.100	0.401	mg/kg	J	J	Z	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6020A	1/4/2014	PH151	4.2	2	7440-22-4	SILVER	0.0775	J	0.0261	0.201	mg/kg	J	J	Z	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	6020A	1/4/2014	PH151	4.2	2	7440-28-0	THALLIUM	0.285		0.0301	0.201	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	7471B	12/23/2013	PH151	4.2	1	7439-97-6	MERCURY	0.0148	J	0.0103	0.0172	mg/kg	J	J	Z	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8015M	12/18/2013	PH151	4.2	1	PHCC12C14	EFH (C12-C14)	5.2	U	2.1	5.2	mg/kg	U			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8015M	12/18/2013	PH151	4.2	1	PHCC15C20	EFH (C15-C20)	4.2	J	2.1	5.2	mg/kg	J	J	Z	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8015M	12/18/2013	PH151	4.2	1	PHCC21C30	EFH (C21-C30)	27		2.1	5.2	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8015M	12/18/2013	PH151	4.2	1	PHCC30C40	EFH (C30-C40)	57		4.2	10	mg/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8015M	12/18/2013	PH151	4.2	1	PHCC8C11	EFH (C8-C11)	5.2	U	2.1	5.2	mg/kg	U			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.2	19	ug/kg	J	J	Z	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	117-84-0	Di-n-octylphthalate	19	U	6.2	19	ug/kg	U			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	120-12-7	ANTHRACENE	1.7	U	0.35	1.7	ug/kg	U			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	129-00-0	PYRENE	2.1		0.69	1.7	ug/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	131-11-3	DIMETHYL PHTHALATE	19	U	6.2	19	ug/kg	U			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	191-24-2	BENZO(G,H,I)PERYLENE	1.7	U	0.69	1.7	ug/kg	U			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	192-97-2	Benzo(e)pyrene	18	U	3.5	18	ug/kg	U			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.7	U	0.69	1.7	ug/kg	U			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	205-99-2	BENZO(B)FLUORANTHENE	1.8		0.69	1.7	ug/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	206-44-0	FLUORANTHENE	1.8		0.69	1.7	ug/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	207-08-9	BENZO(K)FLUORANTHENE	1.7	U	0.69	1.7	ug/kg	U			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.35	1.7	ug/kg	U			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	218-01-9	Chrysene	2.1		0.35	1.7	ug/kg				1782577.644	268192.82	-118.720257	34.234829
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	1613B	12/24/2013	PH148	2.2	1	1746-01-6	2,3,7,8-TCDD	0.11	J	0.0966	0.992	ng/kg	JQ	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	1613B	12/24/2013	PH148	2.2	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	0.472	J	0.0356	4.96	ng/kg	JQ	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	1613B	12/24/2013	PH148	2.2	1	3268-87-9	OCDD	26.9		0.0338	9.92	ng/kg	B			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	1613B	12/24/2013	PH148	2.2	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	3.2	J	0.0390	4.96	ng/kg	JB	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	1613B	12/24/2013	PH148	2.2	1	39001-02-0	OCDF	2.03	J	0.0524	9.92	ng/kg	JB	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	1613B	12/24/2013	PH148	2.2	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	0.157	J	0.0355	4.96	ng/kg	JQ	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	1613B	12/24/2013	PH148	2.2	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	0.328	J	0.0531	4.96	ng/kg	JQ	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	1613B	12/24/2013	PH148	2.2	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	0.202	J	0.0805	0.992	ng/kg	JQ	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	1613B	12/24/2013	PH148	2.2	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	4.96	UJ	0.0390	4.96	ng/kg	JBQ	UJ	B, FD	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	1613B	12/24/2013	PH148	2.2	1	57117-31-4	2,3,4,7,8-PECDF	0.395	J	0.0331	4.96	ng/kg	JBQ	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	1613B	12/24/2013	PH148	2.2	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	0.288	J	0.0354	4.96	ng/kg	JBQ	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	1613B	12/24/2013	PH148	2.2	1	57117-44-9	1,2,3,6,7,8-HXCDF	0.22	J	0.0305	4.96	ng/kg	J	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	1613B	12/24/2013	PH148	2.2	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	0.391	J	0.0378	4.96	ng/kg	JB	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	1613B	12/24/2013	PH148	2.2	1	60851-34-5	2,3,4,6,7,8-HXCDF	0.301	J	0.0318	4.96	ng/kg	JB	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	1613B	12/24/2013	PH148	2.2	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	0.851	J	0.0239	4.96	ng/kg	JB	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	1613B	12/24/2013	PH148	2.2	1	70648-26-9	1,2,3,4,7,8-HXCDF	4.96	U	0.0334	4.96	ng/kg	JB	U	B	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	1613B	12/24/2013	PH148	2.2	1	72918-21-9	1,2,3,7,8,9-HXCDF	0.258	J	0.0364	4.96	ng/kg	JBQ	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/27/2013	PH148	2.2	1	7429-90-5	ALUMINUM (FUME OR DUST)	9880		7.16	39.7	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/27/2013	PH148	2.2	1	7439-89-6	IRON	17800		3.59	39.7	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/27/2013	PH148	2.2	1	7439-95-4	MAGNESIUM	3960		1.66	9.93	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/27/2013	PH148	2.2	1	7440-70-2	CALCIUM METAL	2070		3.32	19.9	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7439-92-1	LEAD	8.44		0.496	2.98	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7439-93-2	LITHIUM	26.1		0.34	4.0	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7439-96-5	MANGANESE	273		0.0824	0.993	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7439-98-7	MOLYBDENUM	1.99	U	0.169	1.99	mg/kg	J	U	F	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7440-02-0	NICKEL	7.68		0.129	1.99	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7440-09-7	POTASSIUM	2820		8.28	99.3	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7440-23-5	SODIUM	57.6	J	16.6	99.3	mg/kg	J	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7440-31-5	TIN	9.93	U	0.218	9.93	mg/kg	J	U	B	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7440-32-6	TITANIUM METAL POWDER	959		0.169	0.993	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7440-36-0	ANTIMONY	1.22	J	0.735	3.97	mg/kg	J	J	FD, Q, Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7440-38-2	ARSENIC	3.75	J	0.695	3.97	mg/kg	J	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7440-39-3	BARIUM	63.9		0.0328	0.993	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7440-41-7	BERYLLIUM	0.382	J	0.0665	0.993	mg/kg	J	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7440-42-8	BORON	4.2	J	0.834	9.93	mg/kg	J	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7440-43-9	CADMIUM	0.993	UJ	0.0754	0.993	mg/kg	U	UJ	FD	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7440-47-3	CHROMIUM	13.5		0.159	2.98	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7440-48-4	COBALT	4.2		0.0983	0.993	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7440-50-8	COPPER	6.43	J	0.288	1.99	mg/kg		J	FD	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7440-62-2	VANADIUM (FUME OR DUST)	28.4		0.129	0.993	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7440-66-6	ZINC	53.6		0.199	3.97	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7440-67-7	ZIRCONIUM	4.96	UJ	0.834	4.96	mg/kg	U	UJ	FD	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6010C	12/26/2013	PH148	2.2	1	7723-14-0	PHOSPHORUS	321	J	2.87	9.93	mg/kg		J	Q	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6020A	1/4/2014	PH148	2.2	2	7782-49-2	SELENIUM	0.459		0.0993	0.397	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6020A	1/4/2014	PH148	2.2	2	7440-22-4	SILVER	0.045	J	0.0258	0.199	mg/kg	J	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6020A	1/4/2014	PH148	2.2	2	7440-24-6	STRONTIUM	10.2		0.0675	0.397	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	6020A	1/4/2014	PH148	2.2	2	7440-28-0	THALLIUM	0.233		0.0298	0.199	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	7471B	12/23/2013	PH148	2.2	1	7439-97-6	MERCURY	0.0096	J	0.0095	0.0158	mg/kg	J	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8015M	12/23/2013	PH148	2.2	1	PHCC12C14	EFH (C12-C14)	5.1	U	2.0	5.1	mg/kg	U			1787147.609	268982.757	-118.705156	34.237088

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8015M	12/23/2013	PH148	2.2	1	PHCC15C20	EFH (C15-C20)	5.1	U	2.0	5.1	mg/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8015M	12/23/2013	PH148	2.2	1	PHCC21C30	EFH (C21-C30)	6.8	J	2.0	5.1	mg/kg		J	FD	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8015M	12/23/2013	PH148	2.2	1	PHCC30C40	EFH (C30-C40)	20		4.1	10	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8015M	12/23/2013	PH148	2.2	1	PHCC8C11	EFH (C8-C11)	5.1	U	2.0	5.1	mg/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	1024-57-3	HEPTACHLOR EPOXIDE	0.85	U	0.17	0.85	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	1031-07-8	ENDOSULFAN SULFATE	1.7	U	0.34	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	2385-85-5	MIREX	1.7	U	0.36	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	309-00-2	ALDRIN	0.85	U	0.17	0.85	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	319-84-6	ALPHA-BHC	0.85	U	0.17	0.85	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	319-85-7	BETA-BHC	1.9	U	0.98	1.9	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	319-86-8	DELTA-BHC	0.85	U	0.46	0.85	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	33213-65-9	ENDOSULFAN II	1.7	U	0.34	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	50-29-3	4,4'-DDT	0.49	J	0.36	1.7	ug/kg	J	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	53494-70-5	ENDRIN KETONE	1.8	U	0.61	1.8	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	57-74-9	CHLORDANE	17	U	4.1	17	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	58-89-9	gamma-BHC (Lindane)	0.85	U	0.17	0.85	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	60-57-1	DIELDRIN	1.7	U	0.34	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	72-20-8	ENDRIN	1.7	U	0.34	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	72-43-5	Methoxychlor	6.9	U	1.7	6.9	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	72-54-8	4,4'-DDD	1.7	U	0.34	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	72-55-9	4,4'-DDE	0.4	J	0.34	1.7	ug/kg	J	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	7421-93-4	ENDRIN ALDEHYDE	1.7	U	0.34	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	76-44-8	HEPTACHLOR	0.85	U	0.17	0.85	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	8001-35-2	Toxaphene	34	U	14	34	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8081B	12/23/2013	PH148	2.2	1	959-98-8	ENDOSULFAN I	0.85	U	0.22	0.85	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	18	U	6.0	18	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	117-84-0	Di-n-octylphthalate	18	U	6.0	18	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	120-12-7	ANTHRACENE	1.7	U	0.34	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	129-00-0	PYRENE	0.67	J	0.67	1.7	ug/kg	J	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	131-11-3	DIMETHYL PHTHALATE	18	U	6.0	18	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	191-24-2	BENZO(G,H,I)PERYLENE	1.7	U	0.67	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	192-97-2	Benzo(e)pyrene	17	U	3.3	17	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.7	U	0.67	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	205-99-2	BENZO(B)FLUORANTHENE	0.73	J	0.67	1.7	ug/kg	J	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	206-44-0	FLUORANTHENE	1.7	UJ	0.67	1.7	ug/kg	U	UJ	FD	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	207-08-9	BENZO(K)FLUORANTHENE	1.7	UJ	0.67	1.7	ug/kg	U	UJ	FD	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.34	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	218-01-9	Chrysene	0.81	J	0.34	1.7	ug/kg	J	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	50-32-8	BENZO(A)PYRENE	1.7	UJ	0.67	1.7	ug/kg	U	UJ	FD	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.67	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	56-55-3	BENZO(A)ANTHRACENE	1.7	UJ	0.67	1.7	ug/kg	U	UJ	FD	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.67	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	83-32-9	ACENAPHTHENE	1.7	U	0.67	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	84-66-2	DIETHYL PHTHALATE	18	U	6.0	18	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	84-74-2	Di-n-butylphthalate	18	U	6.0	18	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	85-01-8	PHENANTHRENE	0.8	J	0.67	1.7	ug/kg	J	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	85-68-7	BENZYL BUTYL PHTHALATE	18	U	6.0	18	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	86-73-7	FLUORENE	1.7	U	0.67	1.7	ug/kg	U			1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	90-12-0	1-METHYLNAPHTHALENE	1.7	UJ	0.67	1.7	ug/kg	U	UJ	FD	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	91-20-3	NAPHTHALENE	1.1	J	0.67	1.7	ug/kg	J	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	8270D SIM	1/2/2014	PH148	2.2	1	91-57-6	2-METHYLNAPHTHALENE	1.7	UJ	0.67	1.7	ug/kg	U	UJ	FD	1787147.609	268982.757	-118.705156	34.237088
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	9045M	12/13/2013	PH148	2.2	1	pH	PH	6.41		0.0100	0.0100	pH unit				1787147.609	268982.757	-118.705156	34.237088
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	1613B	12/23/2013	PH148	15.3	1	1746-01-6	2,3,7,8-TCDD	1.16	UJ	0.123	1.16	ng/kg	U	UJ	FD	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	1613B	12/23/2013	PH148	15.3	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	1.18	J	0.0667	5.80	ng/kg	J	J	FD, Z	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	1613B	12/23/2013	PH148	15.3	1	3268-87-9	OCDD	856	J	0.0985	11.6	ng/kg	B	J	FD	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	1613B	12/23/2013	PH148	15.3	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	90.2	J	0.120	5.80	ng/kg	B	J	FD	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	1613B	12/23/2013	PH148	15.3	1	39001-02-0	OCDF	35.2		0.0752	11.6	ng/kg	B			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	1613B	12/23/2013	PH148	15.3	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	0.665	J	0.0681	5.80	ng/kg	JQ	J	FD, Z	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	1613B	12/23/2013	PH148	15.3	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	0.215	J	0.0834	5.80	ng/kg	JQ	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	1613B	12/23/2013	PH148	15.3	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	0.466	J	0.102	1.16	ng/kg	J	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	1613B	12/23/2013	PH148	15.3	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	1.18	J	0.0635	5.80	ng/kg	JBQ	J	FD, Z	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	1613B	12/23/2013	PH148	15.3	1	57117-31-4	2,3,4,7,8-PECDF	0.59	J	0.0484	5.80	ng/kg	JB	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8015M	12/12/2013	PH138	4.5	1	PHCC12C14	EFH (C12-C14)	5.2	U	2.1	5.2	mg/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8015M	12/12/2013	PH138	4.5	1	PHCC15C20	EFH (C15-C20)	5.2	U	2.1	5.2	mg/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8015M	12/12/2013	PH138	4.5	1	PHCC21C30	EFH (C21-C30)	5.2	U	2.1	5.2	mg/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8015M	12/12/2013	PH138	4.5	1	PHCC30C40	EFH (C30-C40)	10	U	4.2	10	mg/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8015M	12/12/2013	PH138	4.5	1	PHCC8C11	EFH (C8-C11)	5.2	U	2.1	5.2	mg/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8015M	12/5/2013	PH138	4.5	25.1	GROC5C12	GASOLINE RANGE ORGANICS (C5-C12)	1.1	U	0.2	1.1	mg/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	1024-57-3	HEPTACHLOR EPOXIDE	0.87	U	0.18	0.87	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	1031-07-8	ENDOSULFAN SULFATE	1.8	U	0.35	1.8	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	2385-85-5	MIREX	1.8	U	0.37	1.8	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	309-00-2	ALDRIN	0.87	U	0.18	0.87	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	319-84-6	ALPHA-BHC	0.87	U	0.18	0.87	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	319-85-7	BETA-BHC	2	U	1.0	2.0	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	319-86-8	DELTA-BHC	0.87	U	0.47	0.87	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	33213-65-9	ENDOSULFAN II	1.8	U	0.35	1.8	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	50-29-3	4,4'-DDT	1.8	U	0.37	1.8	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	53494-70-5	ENDRIN KETONE	1.9	U	0.63	1.9	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	57-74-9	CHLORDANE	18	U	4.2	18	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	58-89-9	gamma-BHC (Lindane)	0.87	U	0.18	0.87	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	60-57-1	DIELDRIN	1.8	U	0.35	1.8	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	72-20-8	ENDRIN	1.8	U	0.35	1.8	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	72-43-5	Methoxychlor	7	U	1.8	7.0	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	72-54-8	4,4'-DDD	1.8	U	0.35	1.8	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	72-55-9	4,4'-DDE	1.8	U	0.35	1.8	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	7421-93-4	ENDRIN ALDEHYDE	1.8	U	0.35	1.8	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	76-44-8	HEPTACHLOR	0.87	U	0.18	0.87	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	8001-35-2	Toxaphene	35	U	15	35	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8081B	12/16/2013	PH138	4.5	1	959-98-8	ENDOSULFAN I	0.87	U	0.23	0.87	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8082A	12/11/2013	PH138	4.5	1	11096-82-5	Aroclor 1260	18	U	4.1	18	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8082A	12/11/2013	PH138	4.5	1	11097-69-1	Aroclor 1254	18	U	4.6	18	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8082A	12/11/2013	PH138	4.5	1	11100-14-4	Aroclor 1268	18	U	3.5	18	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8082A	12/11/2013	PH138	4.5	1	11104-28-2	Aroclor 1221	18	U	5.3	18	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8082A	12/11/2013	PH138	4.5	1	11126-42-4	Aroclor 5460	35	U	10	35	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8082A	12/11/2013	PH138	4.5	1	11141-16-5	Aroclor 1232	18	U	4.3	18	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8082A	12/11/2013	PH138	4.5	1	12642-23-8	Aroclor 5442	35	U	10	35	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8082A	12/11/2013	PH138	4.5	1	12672-29-6	Aroclor 1248	18	U	3.5	18	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8082A	12/11/2013	PH138	4.5	1	12674-11-2	Aroclor 1016	18	U	3.5	18	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8082A	12/11/2013	PH138	4.5	1	37324-23-5	Aroclor 1262	18	U	3.5	18	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8082A	12/11/2013	PH138	4.5	1	53469-21-9	Aroclor 1242	18	U	4.3	18	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8082A	12/11/2013	PH138	4.5	1	63496-31-1	Aroclor 5432	35	U	10	35	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	19	U	6.3	19	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	117-84-0	Di-n-octylphthalate	19	U	6.3	19	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	120-12-7	ANTHRACENE	1.7	U	0.35	1.7	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	129-00-0	PYRENE	1.7	U	0.70	1.7	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	131-11-3	DIMETHYL PHTHALATE	19	U	6.3	19	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	191-24-2	BENZO(G,H,I)PERYLENE	1.7	U	0.70	1.7	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	192-97-2	Benzo(e)pyrene	18	U	3.5	18	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.7	U	0.70	1.7	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	205-99-2	BENZO(B)FLUORANTHENE	1.7	U	0.70	1.7	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	206-44-0	FLUORANTHENE	1.7	U	0.70	1.7	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	207-08-9	BENZO(K)FLUORANTHENE	1.7	U	0.70	1.7	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.35	1.7	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	218-01-9	Chrysene	1.7	U	0.35	1.7	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	50-32-8	BENZO(A)PYRENE	1.7	U	0.70	1.7	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.70	1.7	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	56-55-3	BENZO(A)ANTHRACENE	1.7	U	0.70	1.7	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.70	1.7	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	83-32-9	ACENAPHTHENE	1.7	U	0.70	1.7	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	84-66-2	DIETHYL PHTHALATE	19	U	6.3	19	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	84-74-2	Di-n-butylphthalate	19	U	6.3	19	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	85-01-8	PHENANTHRENE	1.7	U	0.70	1.7	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	85-68-7	BENZYL BUTYL PHTHALATE	19	U	6.3	19	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	86-73-7	FLUORENE	1.7	U	0.70	1.7	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	90-12-0	1-METHYLNAPHTHALENE	1.7	U	0.70	1.7	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	91-20-3	NAPHTHALENE	1.7	U	0.70	1.7	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	8270D SIM	12/27/2013	PH138	4.5	1	91-57-6	2-METHYLNAPHTHALENE	1.7	U	0.70	1.7	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-509-NBZ-SB-2.5-3.5	12/3/2013	N	2.5	3.5	ft	SO	NBZ_DG		7300108	LL	9045M	12/4/2013	PH138	4.5	1	pH	PH	7.6		0.0100	0.0100	pH unit				1781974.74	266794.341	-118.722219	34.230974
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	160.3M	12/11/2013	PH138	4.6	1	MOIST	MOISTURE	4.6		0.10	0.10	%				1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	1613B	12/14/2013	PH138	4.6	1	1746-01-6	2,3,7,8-TCDD	1.03	U	0.0589	1.03	ng/kg	JB	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	1613B	12/14/2013	PH138	4.6	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	5.17	U	0.0282	5.17	ng/kg	JBQ	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	1613B	12/14/2013	PH138	4.6	1	3268-87-9	OCDD	10.3	U	0.0301	10.3	ng/kg	JB	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	1613B	12/14/2013	PH138	4.6	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	5.17	U	0.0355	5.17	ng/kg	JBQ	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	1613B	12/14/2013	PH138	4.6	1	39001-02-0	OCDF	10.3	U	0.0360	10.3	ng/kg	JBQ	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	1613B	12/14/2013	PH138	4.6	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.17	U	0.0286	5.17	ng/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	1613B	12/14/2013	PH138	4.6	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	0.0784	J	0.0373	5.17	ng/kg	JQ	J	Z	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	1613B	12/14/2013	PH138	4.6	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	0.081	J	0.0393	1.03	ng/kg	JQ	J	Z	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	1613B	12/14/2013	PH138	4.6	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	5.17	U	0.0191	5.17	ng/kg	JBQ	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	1613B	12/14/2013	PH138	4.6	1	57117-31-4	2,3,4,7,8-PECDF	5.17	U	0.0192	5.17	ng/kg	JBQ	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	1613B	12/14/2013	PH138	4.6	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	5.17	U	0.0199	5.17	ng/kg	JB	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	1613B	12/14/2013	PH138	4.6	1	57117-44-9	1,2,3,6,7,8-HXCDF	5.17	U	0.0183	5.17	ng/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	1613B	12/14/2013	PH138	4.6	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.17	U	0.0305	5.17	ng/kg	JBQ	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	1613B	12/14/2013	PH138	4.6	1	60851-34-5	2,3,4,6,7,8-HXCDF	5.17	U	0.0192	5.17	ng/kg	JBQ	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	1613B	12/14/2013	PH138	4.6	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	5.17	U	0.0128	5.17	ng/kg	JBQ	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	1613B	12/14/2013	PH138	4.6	1	70648-26-9	1,2,3,4,7,8-HXCDF	5.17	U	0.0198	5.17	ng/kg	JB	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	1613B	12/14/2013	PH138	4.6	1	72918-21-9	1,2,3,7,8,9-HXCDF	5.17	U	0.0230	5.17	ng/kg	JBQ	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8015M	12/12/2013	PH138	4.6	1	PHCC12C14	EFH (C12-C14)	5.2	U	2.1	5.2	mg/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8015M	12/12/2013	PH138	4.6	1	PHCC15C20	EFH (C15-C20)	5.2	U	2.1	5.2	mg/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8015M	12/12/2013	PH138	4.6	1	PHCC21C30	EFH (C21-C30)	5.2	U	2.1	5.2	mg/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8015M	12/12/2013	PH138	4.6	1	PHCC30C40	EFH (C30-C40)	10	U	4.2	10	mg/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8015M	12/12/2013	PH138	4.6	1	PHCC8C11	EFH (C8-C11)	5.2	U	2.1	5.2	mg/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	1024-57-3	HEPTACHLOR EPOXIDE	0.87	U	0.18	0.87	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	1031-07-8	ENDOSULFAN SULFATE	1.8	U	0.35	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	2385-85-5	MIREX	1.8	U	0.37	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	309-00-2	ALDRIN	0.87	U	0.18	0.87	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	319-84-6	ALPHA-BHC	0.87	U	0.18	0.87	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	319-85-7	BETA-BHC	2	U	1.0	2.0	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	319-86-8	DELTA-BHC	0.87	U	0.47	0.87	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	33213-65-9	ENDOSULFAN II	1.8	U	0.35	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	50-29-3	4,4'-DDT	1.8	U	0.37	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	53494-70-5	ENDRIN KETONE	1.9	U	0.63	1.9	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	57-74-9	CHLORDANE	18	U	4.2	18	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	58-89-9	gamma-BHC (Lindane)	0.87	U	0.18	0.87	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	60-57-1	DIELDRIN	1.8	U	0.35	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	72-20-8	ENDRIN	1.8	U	0.35	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	72-43-5	Methoxychlor	7	U	1.8	7.0	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	72-54-8	4,4'-DDD	1.8	U	0.35	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	72-55-9	4,4'-DDE	1.8	U	0.35	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	7421-93-4	ENDRIN ALDEHYDE	1.8	U	0.35	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	76-44-8	HEPTACHLOR	0.87	U	0.18	0.87	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	8001-35-2	Toxaphene	35	U	15	35	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8081B	12/16/2013	PH138	4.6	1	959-98-8	ENDOSULFAN I	0.87	U	0.23	0.87	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8082A	12/11/2013	PH138	4.6	1	11096-82-5	Aroclor 1260	18	U	4.1	18	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8082A	12/11/2013	PH138	4.6	1	11097-69-1	Aroclor 1254	18	U	4.6	18	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8082A	12/11/2013	PH138	4.6	1	11100-14-4	Aroclor 1268	18	U	3.5	18	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8082A	12/11/2013	PH138	4.6	1	11104-28-2	Aroclor 1221	18	U	5.3	18	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8082A	12/11/2013	PH138	4.6	1	11126-42-4	Aroclor 5460	35	U	10	35	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8082A	12/11/2013	PH138	4.6	1	11141-16-5	Aroclor 1232	18	U	4.3	18	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	6010C	12/16/2013	PH141	2	1	7440-36-0	ANTIMONY	3.96	U	0.733	3.96	mg/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	6010C	12/16/2013	PH141	2	1	7440-38-2	ARSENIC	19.7		0.693	3.96	mg/kg				1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	6010C	12/16/2013	PH141	2	1	7440-39-3	BARIUM	61.3		0.0327	0.991	mg/kg				1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	6010C	12/16/2013	PH141	2	1	7440-41-7	BERYLLIUM	0.514	J	0.0664	0.991	mg/kg	J	J	Z	1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	6010C	12/16/2013	PH141	2	1	7440-42-8	BORON	9.91	U	0.832	9.91	mg/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	6010C	12/16/2013	PH141	2	1	7440-43-9	CADMIUM	0.372	J	0.0753	0.991	mg/kg	J	J	Z	1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	6010C	12/16/2013	PH141	2	1	7440-47-3	CHROMIUM	14.9		0.159	2.97	mg/kg				1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	6010C	12/16/2013	PH141	2	1	7440-48-4	COBALT	4.67		0.0981	0.991	mg/kg				1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	6010C	12/16/2013	PH141	2	1	7440-50-8	COPPER	1.74	J	0.287	1.98	mg/kg	J	J	Z	1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	6010C	12/16/2013	PH141	2	1	7440-62-2	VANADIUM (FUME OR DUST)	29.3		0.129	0.991	mg/kg				1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	6010C	12/16/2013	PH141	2	1	7440-66-6	ZINC	52.9		0.198	3.96	mg/kg				1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	6010C	12/16/2013	PH141	2	1	7440-67-7	ZIRCONIUM	1.48	J	0.832	4.95	mg/kg	J	J	Z	1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	6010C	12/16/2013	PH141	2	1	7440-70-2	CALCIUM METAL	1980		3.31	19.8	mg/kg				1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	6010C	12/16/2013	PH141	2	1	7723-14-0	PHOSPHORUS	458		2.86	9.91	mg/kg				1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	6020A	12/17/2013	PH141	2	2	7782-49-2	SELENIUM	0.396	U	0.0991	0.396	mg/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	6020A	12/17/2013	PH141	2	2	7440-22-4	SILVER	0.198	U	0.0258	0.198	mg/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	6020A	12/17/2013	PH141	2	2	7440-24-6	STRONTIUM	8.81		0.0674	0.396	mg/kg				1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	6020A	12/17/2013	PH141	2	2	7440-28-0	THALLIUM	0.227		0.0297	0.198	mg/kg				1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	7471B	12/17/2013	PH141	2	1	7439-97-6	MERCURY	0.0167	U	0.0100	0.0167	mg/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8015M	12/13/2013	PH141	2	1	PHCC12C14	EFH (C12-C14)	5.1	U	2.0	5.1	mg/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8015M	12/13/2013	PH141	2	1	PHCC15C20	EFH (C15-C20)	2.4	J	2.0	5.1	mg/kg	J	J	Z	1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8015M	12/13/2013	PH141	2	1	PHCC21C30	EFH (C21-C30)	12		2.0	5.1	mg/kg				1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8015M	12/13/2013	PH141	2	1	PHCC30C40	EFH (C30-C40)	38		4.1	10	mg/kg				1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8015M	12/13/2013	PH141	2	1	PHCC8C11	EFH (C8-C11)	5.1	U	2.0	5.1	mg/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	18	U	6.0	18	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	117-84-0	Di-n-octylphthalate	18	U	6.0	18	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	120-12-7	ANTHRACENE	1.7	U	0.34	1.7	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	129-00-0	PYRENE	0.74	J	0.67	1.7	ug/kg	J	J	Z	1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	131-11-3	DIMETHYL PHTHALATE	18	U	6.0	18	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	191-24-2	BENZO(G,H,I)PERYLENE	1.7	U	0.67	1.7	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	192-97-2	Benzo(e)pyrene	17	U	3.4	17	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.7	U	0.67	1.7	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	205-99-2	BENZO(B)FLUORANTHENE	0.88	J	0.67	1.7	ug/kg	J	J	Z	1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	206-44-0	FLUORANTHENE	0.77	J	0.67	1.7	ug/kg	J	J	Z	1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	207-08-9	BENZO(K)FLUORANTHENE	1.7	U	0.67	1.7	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.34	1.7	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	218-01-9	Chrysene	0.68	J	0.34	1.7	ug/kg	J	J	Z	1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	50-32-8	BENZO(A)PYRENE	1.7	U	0.67	1.7	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.67	1.7	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	56-55-3	BENZO(A)ANTHRACENE	1.7	U	0.67	1.7	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.67	1.7	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	83-32-9	ACENAPHTHENE	1.7	U	0.67	1.7	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	84-66-2	DIETHYL PHTHALATE	18	U	6.0	18	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	84-74-2	Di-n-butylphthalate	18	U	6.0	18	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	85-01-8	PHENANTHRENE	1.7	U	0.67	1.7	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	85-68-7	BENZYL BUTYL PHTHALATE	18	U	6.0	18	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	86-73-7	FLUORENE	1.7	U	0.67	1.7	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	90-12-0	1-METHYLNAPHTHALENE	1.7	U	0.67	1.7	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	91-20-3	NAPHTHALENE	1.7	U	0.67	1.7	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-512-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305591	LL	8270D SIM	12/27/2013	PH141	2	1	91-57-6	2-METHYLNAPHTHALENE	1.7	U	0.67	1.7	ug/kg	U			1782786.125	266444.131	-118.719526	34.230028
SL-513-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307346	LL	160.3M	12/17/2013	PH142	6.6	1	MOIST	MOISTURE	6.6		0.10	0.10	%				1783391.712	267493.344	-118.717547	34.232923
SL-513-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307346	LL	8015M	12/19/2013	PH142	6.6	2	PHCC12C14	EFH (C12-C14)	11	U	4.3	11	mg/kg	U			1783391.712	267493.344	-118.717547	34.232923
SL-513-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307346	LL	8015M	12/19/2013	PH142	6.6	2	PHCC15C20	EFH (C15-C20)	12		4.3	11	mg/kg				1783391.712	267493.344	-118.717547	34.232923
SL-513-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307346	LL	8015M	12/19/2013	PH142	6.6	2	PHCC21C30	EFH (C21-C30)	47		4.3	11	mg/kg				1783391.712	267493.344	-118.717547	34.232923
SL-513-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307346	LL	8015M	12/19/2013	PH142	6.6	2	PHCC30C40	EFH (C30-C40)	120		8.6	21	mg/kg				1783391.712	267493.344	-118.717547	34.232923
SL-513-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307346	LL	8015M	12/19/2013	PH142	6.6	2	PHCC8C11	EFH (C8-C11)	11	U	4.3	11	mg/kg	U			1783391.712	267493.344	-118.717547	34.232923
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	160.3M	12/17/2013	PH142	8	1	MOIST	MOISTURE	8		0.10	0.10	%				1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	33213-65-9	ENDOSULFAN II	1.8	U	0.36	1.8	ug/kg	U			1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	1024-57-3	HEPTACHLOR EPOXIDE	0.9	U	0.18	0.90	ug/kg	U			1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	1031-07-8	ENDOSULFAN SULFATE	1.8	U	0.36	1.8	ug/kg	U			1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	2385-85-5	MIREX	1.8	U	0.38	1.8	ug/kg	U			1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	309-00-2	ALDRIN	0.9	U	0.18	0.90	ug/kg	U			1782491.035	267284.794	-118.720522	34.232332

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	319-84-6	ALPHA-BHC	0.9	U	0.18	0.90	ug/kg	U			1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	319-85-7	BETA-BHC	2.1	U	1.0	2.1	ug/kg	U			1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	319-86-8	DELTA-BHC	0.9	U	0.49	0.90	ug/kg	U			1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	50-29-3	4,4'-DDT	0.61	J	0.38	1.8	ug/kg	J	J	Z, *#	1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	53494-70-5	ENDRIN KETONE	2	U	0.65	2.0	ug/kg	U			1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	57-74-9	CHLORDANE	18	U	4.3	18	ug/kg	U			1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	58-89-9	gamma-BHC (Lindane)	0.9	U	0.22	0.90	ug/kg	U			1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	60-57-1	DIELDRIN	1.8	U	0.36	1.8	ug/kg	U			1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	72-20-8	ENDRIN	1.8	U	0.36	1.8	ug/kg	U			1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	72-43-5	Methoxychlor	7.3	U	1.8	7.3	ug/kg	U			1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	72-54-8	4,4'-DDD	1.8	U	0.36	1.8	ug/kg	U			1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	72-55-9	4,4'-DDE	0.85	J	0.36	1.8	ug/kg	J	J	Z	1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	7421-93-4	ENDRIN ALDEHYDE	0.5	J	0.36	1.8	ug/kg	J	J	Z	1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	76-44-8	HEPTACHLOR	0.9	U	0.18	0.90	ug/kg	U			1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	8001-35-2	Toxaphene	36	U	15	36	ug/kg	U			1782491.035	267284.794	-118.720522	34.232332
SL-514-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307342	LL	8081B	12/17/2013	PH142	8	1	959-98-8	ENDOSULFAN I	0.42	J	0.24	0.90	ug/kg	J	J	Z	1782491.035	267284.794	-118.720522	34.232332
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	160.3M	12/17/2013	PH142	9.2	1	MOIST	MOISTURE	9.2		0.10	0.10	%				1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	1024-57-3	HEPTACHLOR EPOXIDE	0.91	U	0.19	0.91	ug/kg	U			1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	1031-07-8	ENDOSULFAN SULFATE	1.9	U	0.36	1.9	ug/kg	U			1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	2385-85-5	MIREX	1.9	U	0.39	1.9	ug/kg	U			1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	309-00-2	ALDRIN	0.91	U	0.19	0.91	ug/kg	U			1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	319-84-6	ALPHA-BHC	0.91	U	0.19	0.91	ug/kg	U			1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	319-85-7	BETA-BHC	2.1	U	1.1	2.1	ug/kg	U			1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	319-86-8	DELTA-BHC	0.91	U	0.50	0.91	ug/kg	U			1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	33213-65-9	ENDOSULFAN II	1.9	UJ	0.36	1.9	ug/kg	U	UJ	C	1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	50-29-3	4,4'-DDT	1.2	J	0.39	1.9	ug/kg	J	J	Z	1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	53494-70-5	ENDRIN KETONE	2	U	0.66	2.0	ug/kg	U			1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	57-74-9	CHLORDANE	19	U	4.4	19	ug/kg	U			1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	58-89-9	gamma-BHC (Lindane)	0.91	U	0.19	0.91	ug/kg	U			1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	60-57-1	DIELDRIN	1.9	U	0.36	1.9	ug/kg	U			1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	72-20-8	ENDRIN	1.9	U	0.61	1.9	ug/kg	U			1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	72-43-5	Methoxychlor	7.4	U	1.9	7.4	ug/kg	U			1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	72-54-8	4,4'-DDD	1.9	U	0.36	1.9	ug/kg	U			1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	72-55-9	4,4'-DDE	1	J	0.36	1.9	ug/kg	J	J	Z, *#	1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	7421-93-4	ENDRIN ALDEHYDE	1.9	U	0.36	1.9	ug/kg	U			1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	76-44-8	HEPTACHLOR	0.91	U	0.19	0.91	ug/kg	U			1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	8001-35-2	Toxaphene	36	U	15	36	ug/kg	U			1782515.711	267362.573	-118.720442	34.232546
SL-515-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307343	LL	8081B	12/17/2013	PH142	9.2	1	959-98-8	ENDOSULFAN I	0.91	U	0.24	0.91	ug/kg	U			1782515.711	267362.573	-118.720442	34.232546
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	160.3M	12/17/2013	PH142	6.4	1	MOIST	MOISTURE	6.4		0.10	0.10	%				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	1613B	12/17/2013	PH142	6.4	1	1746-01-6	2,3,7,8-TCDD	1.03	U	0.0924	1.03	ng/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	1613B	12/17/2013	PH142	6.4	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	0.14	J	0.0394	5.15	ng/kg	JQ	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	1613B	12/17/2013	PH142	6.4	1	3268-87-9	OCDD	10.3		0.0236	10.3	ng/kg	B			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	1613B	12/17/2013	PH142	6.4	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	1.52	J	0.0422	5.15	ng/kg	JB	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	1613B	12/17/2013	PH142	6.4	1	39001-02-0	OCDF	0.775	J	0.0434	10.3	ng/kg	JB	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	1613B	12/17/2013	PH142	6.4	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.15	U	0.0405	5.15	ng/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	1613B	12/17/2013	PH142	6.4	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	5.15	U	0.0589	5.15	ng/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	1613B	12/17/2013	PH142	6.4	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	0.115	J	0.0896	1.03	ng/kg	JQ	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	1613B	12/17/2013	PH142	6.4	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	5.15	U	0.0295	5.15	ng/kg	JBQ	U	B	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	1613B	12/17/2013	PH142	6.4	1	57117-31-4	2,3,4,7,8-PECDF	0.3	J	0.0343	5.15	ng/kg	JQ	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	1613B	12/17/2013	PH142	6.4	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	0.231	J	0.0381	5.15	ng/kg	JBQ	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	1613B	12/17/2013	PH142	6.4	1	57117-44-9	1,2,3,6,7,8-HXCDF	5.15	U	0.0339	5.15	ng/kg	JB	U	B	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	1613B	12/17/2013	PH142	6.4	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	0.144	J	0.0420	5.15	ng/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	1613B	12/17/2013	PH142	6.4	1	60851-34-5	2,3,4,6,7,8-HXCDF	0.153	J	0.0355	5.15	ng/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	1613B	12/17/2013	PH142	6.4	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	0.411	J	0.0239	5.15	ng/kg	JB	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	1613B	12/17/2013	PH142	6.4	1	70648-26-9	1,2,3,4,7,8-HXCDF	0.156	J	0.0353	5.15	ng/kg	JBQ	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	1613B	12/17/2013	PH142	6.4	1	72918-21-9	1,2,3,7,8,9-HXCDF	5.15	U	0.0402	5.15	ng/kg	JB	U	B	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7429-90-5	ALUMINUM (FUME OR DUST)	15700		7.48	41.5	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7439-89-6	IRON	23500		3.75	41.5	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7439-92-1	LEAD	11.8		0.519	3.11	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7439-93-2	LITHIUM	29.5		0.35	4.1	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8151A	12/15/2013	PH141	3.6	1	93-72-1	2,4,5-TP (Silvex)	1.7	U	0.77	1.7	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8151A	12/15/2013	PH141	3.6	1	93-76-5	2,4,5-T	1.7	U	0.84	1.7	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8151A	12/15/2013	PH141	3.6	1	94-74-6	MCPA (2-METHYL-4-CHLOROPHENOXYACETIC A(	2600	U	780	2600	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8151A	12/15/2013	PH141	3.6	1	94-75-7	2,4-D	37	U	12	37	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-556-NBZ-SB-4.0-5.0	12/6/2013	N	4	5	ft	SO	NBZ_DG		7305598	LL	8151A	12/15/2013	PH141	3.6	1	94-82-6	2,4-DB	17	U	12	17	ug/kg	U			1784723.302	267738.472	-118.713148	34.233622
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	160.3M	12/17/2013	PH142	4.3	1	MOIST	MOISTURE	4.3		0.10	0.10	%				1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	300.0	12/19/2013	PH142	4.3	1	14797-55-8	Nitrate-NO3	3.2	J	0.42	0.78	mg/kg		J	Q	1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8015M	12/18/2013	PH142	4.3	1	PHCC12C14	EFH (C12-C14)	5.2	U	2.1	5.2	mg/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8015M	12/18/2013	PH142	4.3	1	PHCC15C20	EFH (C15-C20)	2.7	J	2.1	5.2	mg/kg	J	J	Z	1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8015M	12/18/2013	PH142	4.3	1	PHCC21C30	EFH (C21-C30)	23		2.1	5.2	mg/kg				1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8015M	12/18/2013	PH142	4.3	1	PHCC30C40	EFH (C30-C40)	43		4.1	10	mg/kg				1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8015M	12/18/2013	PH142	4.3	1	PHCC8C11	EFH (C8-C11)	5.2	U	2.1	5.2	mg/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	19	U	6.2	19	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	117-84-0	Di-n-octylphthalate	19	U	6.2	19	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	120-12-7	ANTHRACENE	1.7	U	0.35	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	129-00-0	PYRENE	1.4	J	0.69	1.7	ug/kg	J	J	Z	1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	131-11-3	DIMETHYL PHTHALATE	19	U	6.2	19	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	191-24-2	BENZO(G,H,I)PERYLENE	0.93	J	0.69	1.7	ug/kg	J	J	Z	1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	192-97-2	Benzo(e)pyrene	18	U	3.5	18	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	193-39-5	INDENO(1,2,3-CD)PYRENE	0.77	J	0.69	1.7	ug/kg	J	J	Z	1783466.787	267638.876	-118.717303	34.233324

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	205-99-2	BENZO(B)FLUORANTHENE	1.8		0.69	1.7	ug/kg				1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	206-44-0	FLUORANTHENE	1.3	J	0.69	1.7	ug/kg	J	J	Z	1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	207-08-9	BENZO(K)FLUORANTHENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.35	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	218-01-9	Chrysene	2		0.35	1.7	ug/kg				1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	50-32-8	BENZO(A)PYRENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	56-55-3	BENZO(A)ANTHRACENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	83-32-9	ACENAPHTHENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	84-66-2	DIETHYL PHTHALATE	19	U	6.2	19	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	84-74-2	Di-n-butylphthalate	19	U	6.2	19	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	85-01-8	PHENANTHRENE	1.1	J	0.69	1.7	ug/kg	J	J	Z	1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	85-68-7	BENZYL BUTYL PHTHALATE	19	U	6.2	19	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	86-73-7	FLUORENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	90-12-0	1-METHYLNAPHTHALENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	91-20-3	NAPHTHALENE	0.78	J	0.69	1.7	ug/kg	J	J	Z	1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307347	LL	8270D SIM	12/29/2013	PH142	4.3	1	91-57-6	2-METHYLNAPHTHALENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	160.3M	12/17/2013	PH142	4.8	1	MOIST	MOISTURE	4.8		0.10	0.10	%				1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	300.0	12/19/2013	PH142	4.8	1	14797-55-8	Nitrate-NO3	0.61	J	0.42	0.79	mg/kg	J	J	Q, Z	1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8015M	12/18/2013	PH142	4.8	1	PHCC12C14	EFH (C12-C14)	5.2	U	2.1	5.2	mg/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8015M	12/18/2013	PH142	4.8	1	PHCC15C20	EFH (C15-C20)	5.2	U	2.1	5.2	mg/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8015M	12/18/2013	PH142	4.8	1	PHCC21C30	EFH (C21-C30)	5.2	U	2.1	5.2	mg/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8015M	12/18/2013	PH142	4.8	1	PHCC30C40	EFH (C30-C40)	10	U	4.2	10	mg/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8015M	12/18/2013	PH142	4.8	1	PHCC8C11	EFH (C8-C11)	5.2	U	2.1	5.2	mg/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8015M	12/16/2013	PH142	4.8	25.99	GROC5C12	GASOLINE RANGE ORGANICS (C5-C12)	1.1	U	0.2	1.1	mg/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	19	U	6.2	19	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	117-84-0	Di-n-octylphthalate	19	U	6.2	19	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	120-12-7	ANTHRACENE	1.7	U	0.35	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	129-00-0	PYRENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	131-11-3	DIMETHYL PHTHALATE	19	U	6.2	19	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	191-24-2	BENZO(G,H,I)PERYLENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	192-97-2	Benzo(e)pyrene	18	U	3.5	18	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	205-99-2	BENZO(B)FLUORANTHENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	206-44-0	FLUORANTHENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	207-08-9	BENZO(K)FLUORANTHENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.35	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	218-01-9	Chrysene	1.7	U	0.35	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	50-32-8	BENZO(A)PYRENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	56-55-3	BENZO(A)ANTHRACENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	83-32-9	ACENAPHTHENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	84-66-2	DIETHYL PHTHALATE	19	U	6.2	19	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	84-74-2	Di-n-butylphthalate	19	U	6.2	19	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	85-01-8	PHENANTHRENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	85-68-7	BENZYL BUTYL PHTHALATE	19	U	6.2	19	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	86-73-7	FLUORENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	90-12-0	1-METHYLNAPHTHALENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	91-20-3	NAPHTHALENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-522-NBZ-SB-2.5-3.5	12/9/2013	N	2.5	3.5	ft	SO	NBZ_DG		7307354	LL	8270D SIM	12/29/2013	PH142	4.8	1	91-57-6	2-METHYLNAPHTHALENE	1.7	U	0.69	1.7	ug/kg	U			1783466.787	267638.876	-118.717303	34.233324
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	160.3M	12/17/2013	PH142	4.5	1	MOIST	MOISTURE	4.5		0.10	0.10	%				1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	300.0	12/19/2013	PH142	4.5	1	14797-55-8	Nitrate-NO3	8.6	J	0.42	0.78	mg/kg		J	Q	1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8015M	12/18/2013	PH142	4.5	1	PHCC12C14	EFH (C12-C14)	5.2	U	2.1	5.2	mg/kg	U			1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8015M	12/18/2013	PH142	4.5	1	PHCC15C20	EFH (C15-C20)	3.3	J	2.1	5.2	mg/kg	J	J	Z	1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8015M	12/18/2013	PH142	4.5	1	PHCC21C30	EFH (C21-C30)	36		2.1	5.2	mg/kg				1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8015M	12/18/2013	PH142	4.5	1	PHCC30C40	EFH (C30-C40)	72		4.2	10	mg/kg				1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8015M	12/18/2013	PH142	4.5	1	PHCC8C11	EFH (C8-C11)	5.2	U	2.1	5.2	mg/kg	U			1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	19		6.3	19	ug/kg				1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	117-84-0	Di-n-octylphthalate	19	U	6.3	19	ug/kg	U			1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	120-12-7	ANTHRACENE	1.7	U	0.35	1.7	ug/kg	U			1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	129-00-0	PYRENE	2.5		0.70	1.7	ug/kg				1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	131-11-3	DIMETHYL PHTHALATE	19	U	6.3	19	ug/kg	U			1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	191-24-2	BENZO(G,H,I)PERYLENE	1.1	J	0.70	1.7	ug/kg	J	J	Z	1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	192-97-2	Benzo(e)pyrene	18	U	3.5	18	ug/kg	U			1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	193-39-5	INDENO(1,2,3-CD)PYRENE	0.79	J	0.70	1.7	ug/kg	J	J	Z	1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	205-99-2	BENZO(B)FLUORANTHENE	3.4		0.70	1.7	ug/kg				1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	206-44-0	FLUORANTHENE	2.5		0.70	1.7	ug/kg				1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	207-08-9	BENZO(K)FLUORANTHENE	0.87	J	0.70	1.7	ug/kg	J	J	Z	1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.35	1.7	ug/kg	U			1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	218-01-9	Chrysene	3		0.35	1.7	ug/kg				1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	50-32-8	BENZO(A)PYRENE	1.4	J	0.70	1.7	ug/kg	J	J	Z	1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.70	1.7	ug/kg	U			1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	56-55-3	BENZO(A)ANTHRACENE	1	J	0.70	1.7	ug/kg	J	J	Z	1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.70	1.7	ug/kg	U			1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	83-32-9	ACENAPHTHENE	1.7	U	0.70	1.7	ug/kg	U			1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	84-66-2	DIETHYL PHTHALATE	19	U	6.3	19	ug/kg	U			1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	84-74-2	Di-n-butylphthalate	19	U	6.3	19	ug/kg	U			1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	85-01-8	PHENANTHRENE	1.7		0.70	1.7	ug/kg	J			1783480.664	267788.26	-118.71726	34.233735

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	85-68-7	BENZYL BUTYL PHTHALATE	7.6	J	6.3	19	ug/kg	J	J	Z	1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	86-73-7	FLUORENE	1.7	U	0.70	1.7	ug/kg	U			1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	90-12-0	1-METHYLNAPHTHALENE	1.1	J	0.70	1.7	ug/kg	J	J	Z	1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	91-20-3	NAPHTHALENE	2.1		0.70	1.7	ug/kg				1783480.664	267788.26	-118.71726	34.233735
SL-523-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307348	LL	8270D SIM	12/29/2013	PH142	4.5	1	91-57-6	2-METHYLNAPHTHALENE	1.6	J	0.70	1.7	ug/kg	J	J	Z	1783480.664	267788.26	-118.71726	34.233735
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	160.3M	12/17/2013	PH142	4.6	1	MOIST	MOISTURE	4.6		0.10	0.10	%				1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	300.0	12/19/2013	PH142	4.6	1	14797-55-8	Nitrate-NO3	0.7	J	0.42	0.78	mg/kg	J	J	FD, Q, Z	1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8015M	12/19/2013	PH142	4.6	2	PHCC12C14	EFH (C12-C14)	10	U	4.2	10	mg/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8015M	12/19/2013	PH142	4.6	2	PHCC15C20	EFH (C15-C20)	8.4	J	4.2	10	mg/kg	J	J	FD, Q, Z	1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8015M	12/19/2013	PH142	4.6	2	PHCC21C30	EFH (C21-C30)	58	J	4.2	10	mg/kg		J	FD	1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8015M	12/19/2013	PH142	4.6	2	PHCC30C40	EFH (C30-C40)	120	J	8.4	21	mg/kg		J	FD	1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8015M	12/19/2013	PH142	4.6	2	PHCC8C11	EFH (C8-C11)	10	U	4.2	10	mg/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	19	UJ	6.2	19	ug/kg	U	UJ	FD	1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	117-84-0	Di-n-octylphthalate	19	U	6.2	19	ug/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	120-12-7	ANTHRACENE	1.7	UJ	0.35	1.7	ug/kg	U	UJ	FD	1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	129-00-0	PYRENE	1.4	J	0.69	1.7	ug/kg	J	J	FD, Z	1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	131-11-3	DIMETHYL PHTHALATE	19	U	6.2	19	ug/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	191-24-2	BENZO(G,H,I)PERYLENE	1.7	UJ	0.69	1.7	ug/kg	U	UJ	FD	1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	192-97-2	Benzo(e)pyrene	18	U	3.5	18	ug/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.7	UJ	0.69	1.7	ug/kg	U	UJ	FD	1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	205-99-2	BENZO(B)FLUORANTHENE	2	J	0.69	1.7	ug/kg		J	FD	1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	206-44-0	FLUORANTHENE	1.3	J	0.69	1.7	ug/kg	J	J	FD, Z	1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	207-08-9	BENZO(K)FLUORANTHENE	1.7	UJ	0.69	1.7	ug/kg	U	UJ	FD	1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.35	1.7	ug/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	218-01-9	Chrysene	2.4	J	0.35	1.7	ug/kg		J	FD	1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	50-32-8	BENZO(A)PYRENE	1.7	UJ	0.69	1.7	ug/kg	U	UJ	FD	1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.69	1.7	ug/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	56-55-3	BENZO(A)ANTHRACENE	1.7	UJ	0.69	1.7	ug/kg	U	UJ	FD	1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.69	1.7	ug/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	83-32-9	ACENAPHTHENE	1.7	U	0.69	1.7	ug/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	84-66-2	DIETHYL PHTHALATE	19	U	6.2	19	ug/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	84-74-2	Di-n-butylphthalate	19	U	6.2	19	ug/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	50-32-8	BENZO(A)PYRENE	0.9	J	0.69	1.7	ug/kg	J	J	Z	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.69	1.7	ug/kg	U			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	56-55-3	BENZO(A)ANTHRACENE	0.75	J	0.69	1.7	ug/kg	J	J	Z	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.69	1.7	ug/kg	U			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	83-32-9	ACENAPHTHENE	1.7	U	0.69	1.7	ug/kg	U			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	84-66-2	DIETHYL PHTHALATE	19	U	6.2	19	ug/kg	U			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	84-74-2	Di-n-butylphthalate	19	U	6.2	19	ug/kg	U			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	85-01-8	PHENANTHRENE	1.5	J	0.69	1.7	ug/kg	J	J	Z	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	85-68-7	BENZYL BUTYL PHTHALATE	28		6.2	19	ug/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	86-73-7	FLUORENE	1.7	U	0.69	1.7	ug/kg	U			1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	90-12-0	1-METHYLNAPHTHALENE	0.79	J	0.69	1.7	ug/kg	J	J	Z	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	91-20-3	NAPHTHALENE	2.7		0.69	1.7	ug/kg				1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	8270D SIM	12/31/2013	PH151	4.2	1	91-57-6	2-METHYLNAPHTHALENE	1.2	J	0.69	1.7	ug/kg	J	J	Z	1782577.644	268192.82	-118.720257	34.234829
SL-521-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313728	LL	9045M	12/15/2013	PH151	4.2	1	pH	PH	7.68		0.0100	0.0100	pH unit				1782577.644	268192.82	-118.720257	34.234829
SL-557-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313729	LL	160.3M	12/20/2013	PH151	3.6	1	MOIST	MOISTURE	3.6		0.10	0.10	%				1783232.699	268594.327	-118.7181	34.235945
SL-557-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313729	LL	8082A	12/24/2013	PH151	3.6	1	11096-82-5	Aroclor 1260	18	U	4.0	18	ug/kg	U			1783232.699	268594.327	-118.7181	34.235945
SL-557-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313729	LL	8082A	12/24/2013	PH151	3.6	1	11097-69-1	Aroclor 1254	18	U	4.6	18	ug/kg	U			1783232.699	268594.327	-118.7181	34.235945
SL-557-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313729	LL	8082A	12/24/2013	PH151	3.6	1	11100-14-4	Aroclor 1268	18	U	3.4	18	ug/kg	U			1783232.699	268594.327	-118.7181	34.235945
SL-557-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313729	LL	8082A	12/24/2013	PH151	3.6	1	11104-28-2	Aroclor 1221	18	U	5.3	18	ug/kg	U			1783232.699	268594.327	-118.7181	34.235945
SL-557-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313729	LL	8082A	12/24/2013	PH151	3.6	1	11126-42-4	Aroclor 5460	34	U	10	34	ug/kg	U			1783232.699	268594.327	-118.7181	34.235945
SL-557-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313729	LL	8082A	12/24/2013	PH151	3.6	1	11141-16-5	Aroclor 1232	18	U	4.3	18	ug/kg	U			1783232.699	268594.327	-118.7181	34.235945
SL-557-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313729	LL	8082A	12/24/2013	PH151	3.6	1	12642-23-8	Aroclor 5442	34	U	10	34	ug/kg	U			1783232.699	268594.327	-118.7181	34.235945
SL-557-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313729	LL	8082A	12/24/2013	PH151	3.6	1	12672-29-6	Aroclor 1248	18	U	3.4	18	ug/kg	U			1783232.699	268594.327	-118.7181	34.235945
SL-557-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313729	LL	8082A	12/24/2013	PH151	3.6	1	12674-11-2	Aroclor 1016	18	U	3.4	18	ug/kg	U			1783232.699	268594.327	-118.7181	34.235945
SL-557-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313729	LL	8082A	12/24/2013	PH151	3.6	1	37324-23-5	Aroclor 1262	18	U	3.4	18	ug/kg	U			1783232.699	268594.327	-118.7181	34.235945
SL-557-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313729	LL	8082A	12/24/2013	PH151	3.6	1	53469-21-9	Aroclor 1242	18	U	4.3	18	ug/kg	U			1783232.699	268594.327	-118.7181	34.235945
SL-557-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313729	LL	8082A	12/24/2013	PH151	3.6	1	63496-31-1	Aroclor 5432	34	U	10	34	ug/kg	U			1783232.699	268594.327	-118.7181	34.235945
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	1613B	12/25/2013	PH155	3.5	1	1746-01-6	2,3,7,8-TCDD	1.04	U	0.0432	1.04	ng/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	1613B	12/25/2013	PH155	3.5	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	0.297	J	0.0282	5.18	ng/kg	JBQ	J	Z	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	1613B	12/25/2013	PH155	3.5	1	3268-87-9	OCDD	13.6		0.0246	10.4	ng/kg	B			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	1613B	12/25/2013	PH155	3.5	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	2.12	J	0.0291	5.18	ng/kg	JB	J	Z	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	1613B	12/25/2013	PH155	3.5	1	39001-02-0	OCDF	0.95	J	0.0272	10.4	ng/kg	JB	J	Z	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	1613B	12/25/2013	PH155	3.5	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.18	U	0.0292	5.18	ng/kg	JBQ	U	B	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	1613B	12/25/2013	PH155	3.5	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	5.18	U	0.0346	5.18	ng/kg	JBQ	U	B	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	1613B	12/25/2013	PH155	3.5	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	0.151	J	0.0561	1.04	ng/kg	J	J	Z	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	1613B	12/25/2013	PH155	3.5	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	5.18	U	0.0284	5.18	ng/kg	JB	U	B	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	1613B	12/25/2013	PH155	3.5	1	57117-31-4	2,3,4,7,8-PECDF	0.38	J	0.0270	5.18	ng/kg	JB	J	Z	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	1613B	12/25/2013	PH155	3.5	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	5.18	U	0.0294	5.18	ng/kg	JB	U	B	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	1613B	12/25/2013	PH155	3.5	1	57117-44-9	1,2,3,6,7,8-HXCDF	5.18	U	0.0234	5.18	ng/kg	JB	U	B	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	1613B	12/25/2013	PH155	3.5	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.18	U	0.0313	5.18	ng/kg	JB	U	B	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	1613B	12/25/2013	PH155	3.5	1	60851-34-5	2,3,4,6,7,8-HXCDF	5.18	U	0.0209	5.18	ng/kg	JBQ	U	B	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	1613B	12/25/2013	PH155	3.5	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	0.605	J	0.0241	5.18	ng/kg	JB	J	Z	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	1613B	12/25/2013	PH155	3.5	1	70648-26-9	1,2,3,4,7,8-HXCDF	5.18	U	0.0232	5.18	ng/kg	JB	U	B	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	1613B	12/25/2013	PH155	3.5	1	72918-21-9	1,2,3,7,8,9-HXCDF	5.18	U	0.0238	5.18	ng/kg	JB	U	B	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7439-92-1	LEAD	13.3		0.503	3.02	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7439-93-2	LITHIUM	23.8		0.34	4.0	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7439-96-5	MANGANESE	293		0.0835	1.01	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7439-98-7	MOLYBDENUM	2.01	U	0.171	2.01	mg/kg	J	U	F	1781804.808	267716.2	-118.722803	34.233504

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7440-02-0	NICKEL	13.7		0.131	2.01	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7440-09-7	POTASSIUM	4210		8.39	101	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7440-23-5	SODIUM	60.7	J	16.8	101	mg/kg	J	J	Z	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7440-31-5	TIN	10.1	U	0.221	10.1	mg/kg	J	U	B	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7440-32-6	TITANIUM METAL POWDER	942		0.171	1.01	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7440-36-0	ANTIMONY	1.73	J	0.745	4.02	mg/kg	J	J	Q, Z	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7440-38-2	ARSENIC	6.49		0.704	4.02	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7440-39-3	BARIUM	77.7		0.0332	1.01	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7440-41-7	BERYLLIUM	0.675	J	0.0674	1.01	mg/kg	J	J	Z	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7440-42-8	BORON	6.14	J	0.845	10.1	mg/kg	J	J	Z	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7440-43-9	CADMIUM	1.01	U	0.0765	1.01	mg/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7440-47-3	CHROMIUM	20.2		0.161	3.02	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7440-48-4	COBALT	7.03		0.0996	1.01	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7440-50-8	COPPER	14.8		0.292	2.01	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7440-62-2	VANADIUM (FUME OR DUST)	40.1		0.131	1.01	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7440-66-6	ZINC	67.7		0.201	4.02	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7440-67-7	ZIRCONIUM	2.88	J	0.845	5.03	mg/kg	J	J	Z	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/26/2013	PH155	3.5	1	7723-14-0	PHOSPHORUS	497	J	2.91	10.1	mg/kg		J	Q	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/27/2013	PH155	3.5	1	7429-90-5	ALUMINUM (FUME OR DUST)	14700		7.25	40.2	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/27/2013	PH155	3.5	1	7439-89-6	IRON	24200		3.64	40.2	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/27/2013	PH155	3.5	1	7439-95-4	MAGNESIUM	5520		1.68	10.1	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6010C	12/27/2013	PH155	3.5	1	7440-70-2	CALCIUM METAL	3730		3.36	20.1	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6020A	1/4/2014	PH155	3.5	2	7440-22-4	SILVER	0.0584	J	0.0262	0.201	mg/kg	J	J	Z	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6020A	1/4/2014	PH155	3.5	2	7440-28-0	THALLIUM	0.322		0.0302	0.201	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6020A	1/7/2014	PH155	3.5	5	7440-24-6	STRONTIUM	24.5		0.171	1.01	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	6020A	1/4/2014	PH155	3.5	2	7782-49-2	SELENIUM	0.227	J	0.101	0.402	mg/kg	J	J	Z	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	7471B	12/23/2013	PH155	3.5	1	7439-97-6	MERCURY	0.0126	J	0.0103	0.0172	mg/kg	J	J	Z	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8015M	12/23/2013	PH155	3.5	5	PHCC12C14	EFH (C12-C14)	26	U	10	26	mg/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8015M	12/23/2013	PH155	3.5	5	PHCC15C20	EFH (C15-C20)	26	U	10	26	mg/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8015M	12/23/2013	PH155	3.5	5	PHCC21C30	EFH (C21-C30)	59		10	26	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8015M	12/23/2013	PH155	3.5	5	PHCC30C40	EFH (C30-C40)	110		21	52	mg/kg				1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8015M	12/23/2013	PH155	3.5	5	PHCC8C11	EFH (C8-C11)	14	J	10	26	mg/kg	J	J	Z	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	18	U	6.1	18	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	117-84-0	Di-n-octylphthalate	18	U	6.1	18	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	120-12-7	ANTHRACENE	1.7	U	0.34	1.7	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	129-00-0	PYRENE	1.7	U	0.68	1.7	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	131-11-3	DIMETHYL PHTHALATE	18	U	6.1	18	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	191-24-2	BENZO(G,H,I)PERYLENE	1.7	U	0.68	1.7	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	192-97-2	Benzo(e)pyrene	17	U	3.4	17	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.7	U	0.68	1.7	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	205-99-2	BENZO(B)FLUORANTHENE	1.3	J	0.68	1.7	ug/kg	J	J	Z	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	206-44-0	FLUORANTHENE	1.7	U	0.68	1.7	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	207-08-9	BENZO(K)FLUORANTHENE	1.7	U	0.68	1.7	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.34	1.7	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	218-01-9	Chrysene	1	J	0.34	1.7	ug/kg	J	J	Z	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	50-32-8	BENZO(A)PYRENE	1.7	U	0.68	1.7	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.68	1.7	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	56-55-3	BENZO(A)ANTHRACENE	1.7	U	0.68	1.7	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.68	1.7	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	83-32-9	ACENAPHTHENE	1.7	U	0.68	1.7	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	84-66-2	DIETHYL PHTHALATE	18	U	6.1	18	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	84-74-2	Di-n-butylphthalate	18	U	6.1	18	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	85-01-8	PHENANTHRENE	1.7	U	0.68	1.7	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	85-68-7	BENZYL BUTYL PHTHALATE	13	J	6.1	18	ug/kg	J	J	Z	1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	86-73-7	FLUORENE	1.7	U	0.68	1.7	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	90-12-0	1-METHYLNAPHTHALENE	1.7	U	0.68	1.7	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	91-20-3	NAPHTHALENE	1.7	U	0.68	1.7	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	8270D SIM	1/2/2014	PH155	3.5	1	91-57-6	2-METHYLNAPHTHALENE	1.7	U	0.68	1.7	ug/kg	U			1781804.808	267716.2	-118.722803	34.233504
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	9045M	12/17/2013	PH155	3.5	1	pH	PH	6.32		0.0100	0.0100	pH unit				1781804.808	267716.2	-118.722803	34.233504
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	160.3M	12/20/2013	PH155	2.8	1	MOIST	MOISTURE	2.8		0.10	0.10	%				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	1613B	12/25/2013	PH155	2.8	1	1746-01-6	2,3,7,8-TCDD	1.03	U	0.0387	1.03	ng/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	1613B	12/25/2013	PH155	2.8	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	0.258	J	0.0324	5.13	ng/kg	JB	J	Z	1781689.64	268207.728	-118.723196	34.234852
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	1613B	12/23/2013	PH148	15.3	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	1.21	J	0.0506	5.80	ng/kg	JB	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	1613B	12/23/2013	PH148	15.3	1	57117-44-9	1,2,3,6,7,8-HXCDF	0.563	J	0.0509	5.80	ng/kg	J	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	1613B	12/23/2013	PH148	15.3	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	3.07	J	0.0701	5.80	ng/kg	JB	J	FD, Z	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	1613B	12/23/2013	PH148	15.3	1	60851-34-5	2,3,4,6,7,8-HXCDF	0.787	J	0.0498	5.80	ng/kg	JB	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	1613B	12/23/2013	PH148	15.3	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	14.5	J	0.0451	5.80	ng/kg	B	J	FD	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	1613B	12/23/2013	PH148	15.3	1	70648-26-9	1,2,3,4,7,8-HXCDF	0.501	J	0.0529	5.80	ng/kg	JB	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	1613B	12/23/2013	PH148	15.3	1	72918-21-9	1,2,3,7,8,9-HXCDF	5.8	U	0.0553	5.80	ng/kg	JBQ	U	B	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	160.3M	12/18/2013	PH148	15.3	1	MOIST	MOISTURE	15.3		0.10	0.10	%				1786657.311	270658.372	-118.706817	34.241683
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8082A	12/11/2013	PH138	4.6	1	12642-23-8	Aroclor 5442	35	U	10	35	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8082A	12/11/2013	PH138	4.6	1	12672-29-6	Aroclor 1248	18	U	3.5	18	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8082A	12/11/2013	PH138	4.6	1	12674-11-2	Aroclor 1016	18	U	3.5	18	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8082A	12/11/2013	PH138	4.6	1	37324-23-5	Aroclor 1262	18	U	3.5	18	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8082A	12/11/2013	PH138	4.6	1	53469-21-9	Aroclor 1242	18	U	4.3	18	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8082A	12/11/2013	PH138	4.6	1	63496-31-1	Aroclor 5432	35	U	10	35	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	19	U	6.3	19	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	117-84-0	Di-n-octylphthalate	19	U	6.3	19	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	120-12-7	ANTHRACENE	1.7	U	0.35	1.7	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	129-00-0	PYRENE	1.7	U	0.70	1.7	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	131-11-3	DIMETHYL PHTHALATE	19	U	6.3	19	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	191-24-2	BENZO(G,H,I)PERYLENE	1.7	U	0.70	1.7	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	192-97-2	Benzo(e)pyrene	18	U	3.5	18	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.7	U	0.70	1.7	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	205-99-2	BENZO(B)FLUORANTHENE	1.7	U	0.70	1.7	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	206-44-0	FLUORANTHENE	1.7	U	0.70	1.7	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	207-08-9	BENZO(K)FLUORANTHENE	1.7	U	0.70	1.7	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.35	1.7	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	218-01-9	Chrysene	1.7	U	0.35	1.7	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	50-32-8	BENZO(A)PYRENE	1.7	U	0.70	1.7	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.70	1.7	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	56-55-3	BENZO(A)ANTHRACENE	1.7	U	0.70	1.7	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.70	1.7	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	83-32-9	ACENAPHTHENE	1.7	U	0.70	1.7	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	84-66-2	DIETHYL PHTHALATE	19	U	6.3	19	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	84-74-2	Di-n-butylphthalate	19	U	6.3	19	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	85-01-8	PHENANTHRENE	1.7	U	0.70	1.7	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	85-68-7	BENZYL BUTYL PHTHALATE	19	U	6.3	19	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	86-73-7	FLUORENE	1.7	U	0.70	1.7	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	90-12-0	1-METHYLNAPHTHALENE	1.7	U	0.70	1.7	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	91-20-3	NAPHTHALENE	1.7	U	0.70	1.7	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	8270D SIM	12/27/2013	PH138	4.6	1	91-57-6	2-METHYLNAPHTHALENE	1.7	U	0.70	1.7	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300113	LL	9045M	12/4/2013	PH138	4.6	1	pH	PH	7.93		0.0100	0.0100	pH unit				1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	160.3M	12/11/2013	PH138	8.3	1	MOIST	MOISTURE	8.3		0.10	0.10	%				1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	1613B	12/14/2013	PH138	8.3	1	1746-01-6	2,3,7,8-TCDD	1.06	U	0.0605	1.06	ng/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	1613B	12/14/2013	PH138	8.3	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	5.31	U	0.0294	5.31	ng/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	1613B	12/14/2013	PH138	8.3	1	3268-87-9	OCDD	10.6	U	0.0333	10.6	ng/kg	JB	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	1613B	12/14/2013	PH138	8.3	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	5.31	U	0.0327	5.31	ng/kg	JB	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	1613B	12/14/2013	PH138	8.3	1	39001-02-0	OCDF	10.6	U	0.0413	10.6	ng/kg	JBQ	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	1613B	12/14/2013	PH138	8.3	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.31	U	0.0317	5.31	ng/kg	JBQ	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	1613B	12/14/2013	PH138	8.3	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	5.31	U	0.0395	5.31	ng/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	1613B	12/14/2013	PH138	8.3	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	1.06	U	0.0419	1.06	ng/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	1613B	12/14/2013	PH138	8.3	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	5.31	U	0.0176	5.31	ng/kg	JB	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	1613B	12/14/2013	PH138	8.3	1	57117-31-4	2,3,4,7,8-PECDF	5.31	U	0.0214	5.31	ng/kg	JBQ	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	1613B	12/14/2013	PH138	8.3	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	5.31	U	0.0229	5.31	ng/kg	JBQ	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8015M	12/12/2013	PH138	8.3	1	57117-44-9	1,2,3,6,7,8-HXCDF	5.31	U	0.0226	5.31	ng/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	1613B	12/14/2013	PH138	8.3	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.31	U	0.0356	5.31	ng/kg	JBQ	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	1613B	12/14/2013	PH138	8.3	1	60851-34-5	2,3,4,6,7,8-HXCDF	5.31	U	0.0237	5.31	ng/kg	JB	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	1613B	12/14/2013	PH138	8.3	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	5.31	U	0.0123	5.31	ng/kg	JBQ	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	1613B	12/14/2013	PH138	8.3	1	70648-26-9	1,2,3,4,7,8-HXCDF	5.31	U	0.0249	5.31	ng/kg	JBQ	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	1613B	12/14/2013	PH138	8.3	1	72918-21-9	1,2,3,7,8,9-HXCDF	5.31	U	0.0280	5.31	ng/kg	JBQ	U	B	1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8015M	12/12/2013	PH138	8.3	1	PHCC12C14	EFH (C12-C14)	5.5	U	2.2	5.5	mg/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8015M	12/12/2013	PH138	8.3	1	PHCC15C20	EFH (C15-C20)	5.5	U	2.2	5.5	mg/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8015M	12/12/2013	PH138	8.3	1	PHCC21C30	EFH (C21-C30)	5.5	U	2.2	5.5	mg/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8015M	12/12/2013	PH138	8.3	1	PHCC30C40	EFH (C30-C40)	11	U	4.4	11	mg/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8015M	12/12/2013	PH138	8.3	1	PHCC8C11	EFH (C8-C11)	5.5	U	2.2	5.5	mg/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8015M	12/6/2013	PH138	8.3	25.35	GROC5C12	GASOLINE RANGE ORGANICS (C5-C12)	1.1	U	0.2	1.1	mg/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	1024-57-3	HEPTACHLOR EPOXIDE	0.91	U	0.19	0.91	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	1031-07-8	ENDOSULFAN SULFATE	1.9	U	0.36	1.9	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	2385-85-5	MIREX	1.9	U	0.38	1.9	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	309-00-2	ALDRIN	0.91	U	0.19	0.91	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	319-84-6	ALPHA-BHC	0.91	U	0.19	0.91	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	319-85-7	BETA-BHC	2.1	U	1.0	2.1	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	319-86-8	DELTA-BHC	0.91	U	0.49	0.91	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	33213-65-9	ENDOSULFAN II	1.9	U	0.36	1.9	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	50-29-3	4,4'-DDT	1.9	U	0.38	1.9	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	53494-70-5	ENDRIN KETONE	2	U	0.65	2.0	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	57-74-9	CHLORDANE	19	U	4.4	19	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	58-89-9	gamma-BHC (Lindane)	0.91	U	0.19	0.91	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	60-57-1	DIELDRIN	1.9	U	0.36	1.9	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	72-20-8	ENDRIN	1.9	U	0.36	1.9	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	72-43-5	Methoxychlor	7.3	U	1.9	7.3	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	72-54-8	4,4'-DDD	1.9	U	0.36	1.9	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	72-55-9	4,4'-DDE	1.9	U	0.36	1.9	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	7421-93-4	ENDRIN ALDEHYDE	1.9	U	0.36	1.9	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	76-44-8	HEPTACHLOR	0.91	U	0.19	0.91	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	8001-35-2	Toxaphene	36	U	15	36	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8081B	12/16/2013	PH138	8.3	1	959-98-8	ENDOSULFAN I	0.91	U	0.24	0.91	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8082A	12/11/2013	PH138	8.3	1	11096-82-5	Aroclor 1260	19	U	4.3	19	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8082A	12/11/2013	PH138	8.3	1	11097-69-1	Aroclor 1254	19	U	4.8	19	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8082A	12/11/2013	PH138	8.3	1	11100-14-4	Aroclor 1268	19	U	3.6	19	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8082A	12/11/2013	PH138	8.3	1	11104-28-2	Aroclor 1221	19	U	5.6	19	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8082A	12/11/2013	PH138	8.3	1	11126-42-4	Aroclor 5460	36	U	11	36	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8082A	12/11/2013	PH138	8.3	1	11141-16-5	Aroclor 1232	19	U	4.5	19	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8082A	12/11/2013	PH138	8.3	1	12642-23-8	Aroclor 5442	36	U	11	36	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8082A	12/11/2013	PH138	8.3	1	12672-29-6	Aroclor 1248	19	U	3.6	19	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8082A	12/11/2013	PH138	8.3	1	12674-11-2	Aroclor 1016	19	U	3.6	19	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8082A	12/11/2013	PH138	8.3	1	37324-23-5	Aroclor 1262	19	U	3.6	19	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8082A	12/11/2013	PH138	8.3	1	53469-21-9	Aroclor 1242	19	U	4.5	19	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8082A	12/11/2013	PH138	8.3	1	63496-31-1	Aroclor 5432	36	U	11	36	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	20	U	6.5	20	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	117-84-0	Di-n-octylphthalate	20	U	6.5	20	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	120-12-7	ANTHRACENE	1.8	U	0.36	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	129-00-0	PYRENE	1.8	U	0.73	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	131-11-3	DIMETHYL PHTHALATE	20	U	6.5	20	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	191-24-2	BENZO(G,H,I)PERYLENE	1.8	U	0.73	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	192-97-2	Benzo(e)pyrene	19	U	3.6	19	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.8	U	0.73	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	205-99-2	BENZO(B)FLUORANTHENE	1.8	U	0.73	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	206-44-0	FLUORANTHENE	1.8	U	0.73	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	207-08-9	BENZO(K)FLUORANTHENE	1.8	U	0.73	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	208-96-8	ACENAPHTHYLENE	1.8	U	0.36	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	218-01-9	Chrysene	1.8	U	0.36	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	50-32-8	BENZO(A)PYRENE	1.8	U	0.73	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.8	U	0.73	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	56-55-3	BENZO(A)ANTHRACENE	1.8	U	0.73	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.8	U	0.73	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	83-32-9	ACENAPHTHENE	1.8	U	0.73	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	84-66-2	DIETHYL PHTHALATE	20	U	6.5	20	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	84-74-2	Di-n-butylphthalate	20	U	6.5	20	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	85-01-8	PHENANTHRENE	1.8	U	0.73	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	85-68-7	BENZYL BUTYL PHTHALATE	20	U	6.5	20	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	86-73-7	FLUORENE	1.8	U	0.73	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	90-12-0	1-METHYLNAPHTHALENE	1.8	U	0.73	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	91-20-3	NAPHTHALENE	1.8	U	0.73	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	8270D SIM	12/27/2013	PH138	8.3	1	91-57-6	2-METHYLNAPHTHALENE	1.8	U	0.73	1.8	ug/kg	U			1782061.867	267056.722	-118.721937	34.231697
SL-510-NBZ-SB-4.0-5.0	12/3/2013	N	4	5	ft	SO	NBZ_DG		7300114	LL	9045M	12/4/2013	PH138	8.3	1	pH	PH	8.04		0.0100	0.0100	pH unit				1782061.867	267056.722	-118.721937	34.231697
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	160.3M	12/12/2013	PH139	4.4	1	MOIST	MOISTURE	4.4		0.10	0.10	%				1781821.333	266506.007	-118.722719	34.230179
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7439-95-4	MAGNESIUM	5340		1.73	10.4	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7439-96-5	MANGANESE	348		0.0861	1.04	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7439-98-7	MOLYBDENUM	2.07	U	0.176	2.07	mg/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7440-02-0	NICKEL	12.9		0.135	2.07	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7440-09-7	POTASSIUM	4550		8.65	104	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7440-23-5	SODIUM	71.7	J	17.3	104	mg/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7440-31-5	TIN	10.4	U	0.228	10.4	mg/kg	J	U	B	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7440-32-6	TITANIUM METAL POWDER	1170		0.176	1.04	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7440-36-0	ANTIMONY	4.15	UJ	0.768	4.15	mg/kg	U	UJ	Q	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7440-38-2	ARSENIC	4.19		0.726	4.15	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7440-39-3	BARIUM	90.6		0.0342	1.04	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7440-41-7	BERYLLIUM	0.658	J	0.0695	1.04	mg/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7440-42-8	BORON	2	J	0.871	10.4	mg/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7440-43-9	CADMIUM	0.43	J	0.0788	1.04	mg/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7440-47-3	CHROMIUM	20.6		0.166	3.11	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7440-48-4	COBALT	6.89		0.103	1.04	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7440-50-8	COPPER	6.04		0.301	2.07	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7440-62-2	VANADIUM (FUME OR DUST)	37.8		0.135	1.04	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7440-66-6	ZINC	69.8		0.207	4.15	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7440-67-7	ZIRCONIUM	2.35	J	0.871	5.19	mg/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7440-70-2	CALCIUM METAL	3780		3.46	20.7	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6010C	12/16/2013	PH142	6.4	1	7723-14-0	PHOSPHORUS	565		3.00	10.4	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6020A	12/17/2013	PH142	6.4	2	7782-49-2	SELENIUM	0.184	J	0.104	0.415	mg/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6020A	12/17/2013	PH142	6.4	2	7440-22-4	SILVER	0.0598	J	0.0270	0.207	mg/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6020A	12/17/2013	PH142	6.4	2	7440-24-6	STRONTIUM	18.9	J	0.0705	0.415	mg/kg		J	Q	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	6020A	12/17/2013	PH142	6.4	2	7440-28-0	THALLIUM	0.297		0.0311	0.207	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	7471B	12/17/2013	PH142	6.4	1	7439-97-6	MERCURY	0.0162	J	0.0105	0.0176	mg/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8015M	12/18/2013	PH142	6.4	1	PHCC12C14	EFH (C12-C14)	5.3	U	2.1	5.3	mg/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8015M	12/18/2013	PH142	6.4	1	PHCC15C20	EFH (C15-C20)	5.3	U	2.1	5.3	mg/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8015M	12/18/2013	PH142	6.4	1	PHCC21C30	EFH (C21-C30)	14		2.1	5.3	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8015M	12/18/2013	PH142	6.4	1	PHCC30C40	EFH (C30-C40)	21		4.2	11	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8015M	12/18/2013	PH142	6.4	1	PHCC8C11	EFH (C8-C11)	5.3	U	2.1	5.3	mg/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	19	U	6.3	19	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	117-84-0	Di-n-octylphthalate	19	U	6.3	19	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	120-12-7	ANTHRACENE	1.8	U	0.35	1.8	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	129-00-0	PYRENE	2.4		0.71	1.8	ug/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	131-11-3	DIMETHYL PHTHALATE	19	U	6.3	19	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	191-24-2	BENZO(G,H,I)PERYLENE	1	J	0.71	1.8	ug/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	192-97-2	Benzo(e)pyrene	18	U	3.5	18	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	193-39-5	INDENO(1,2,3-CD)PYRENE	0.82	J	0.71	1.8	ug/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	205-99-2	BENZO(B)FLUORANTHENE	3.3		0.71	1.8	ug/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	206-44-0	FLUORANTHENE	2.3		0.71	1.8	ug/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	207-08-9	BENZO(K)FLUORANTHENE	1	J	0.71	1.8	ug/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	208-96-8	ACENAPHTHYLENE	1.8	U	0.35	1.8	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	218-01-9	Chrysene	2.8		0.35	1.8	ug/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	50-32-8	BENZO(A)PYRENE	1.2	J	0.71	1.8	ug/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.8	U	0.71	1.8	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	56-55-3	BENZO(A)ANTHRACENE	1.1	J	0.71	1.8	ug/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.8	U	0.71	1.8	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	83-32-9	ACENAPHTHENE	1.8	U	0.71	1.8	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	84-66-2	DIETHYL PHTHALATE	19	U	6.3	19	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	84-74-2	Di-n-butylphthalate	19	U	6.3	19	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	85-01-8	PHENANTHRENE	1.7	J	0.71	1.8	ug/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	85-68-7	BENZYL BUTYL PHTHALATE	19	U	6.3	19	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	86-73-7	FLUORENE	1.8	U	0.71	1.8	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	90-12-0	1-METHYLNAPHTHALENE	1.1	J	0.71	1.8	ug/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	91-20-3	NAPHTHALENE	2.4		0.71	1.8	ug/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	8270D SIM	12/29/2013	PH142	6.4	1	91-57-6	2-METHYLNAPHTHALENE	1.1	J	0.71	1.8	ug/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307344	LL	9045M	12/10/2013	PH142	6.4	1	pH	PH	6.87		0.0100	0.0100	pH unit				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	160.3M	12/17/2013	PH142	3.1	1	MOIST	MOISTURE	3.1		0.10	0.10	%				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	1613B	12/17/2013	PH142	3.1	1	1746-01-6	2,3,7,8-TCDD	1.02	U	0.0819	1.02	ng/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	1613B	12/17/2013	PH142	3.1	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	0.0337	J	0.0229	5.10	ng/kg	JQ	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	1613B	12/17/2013	PH142	3.1	1	3268-87-9	OCDD	10.2	U	0.0217	10.2	ng/kg	JB	U	B	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	1613B	12/17/2013	PH142	3.1	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	5.1	U	0.0271	5.10	ng/kg	JBQ	U	B	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	1613B	12/17/2013	PH142	3.1	1	39001-02-0	OCDF	10.2	U	0.0303	10.2	ng/kg	JBQ	U	B	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	1613B	12/17/2013	PH142	3.1	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.1	U	0.0230	5.10	ng/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	1613B	12/17/2013	PH142	3.1	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	5.1	U	0.0390	5.10	ng/kg	JBQ	U	B	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	1613B	12/17/2013	PH142	3.1	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	1.02	U	0.0570	1.02	ng/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	1613B	12/17/2013	PH142	3.1	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	5.1	U	0.0137	5.10	ng/kg	JBQ	U	B	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	1613B	12/17/2013	PH142	3.1	1	57117-31-4	2,3,4,7,8-PECDF	5.1	U	0.0261	5.10	ng/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	1613B	12/17/2013	PH142	3.1	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	5.1	U	0.0292	5.10	ng/kg	JBQ	U	B	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	1613B	12/17/2013	PH142	3.1	1	57117-44-9	1,2,3,6,7,8-HXCDF	5.1	U	0.0187	5.10	ng/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	1613B	12/17/2013	PH142	3.1	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.1	U	0.0246	5.10	ng/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	1613B	12/17/2013	PH142	3.1	1	60851-34-5	2,3,4,6,7,8-HXCDF	5.1	U	0.0192	5.10	ng/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	1613B	12/17/2013	PH142	3.1	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	5.1	U	0.0118	5.10	ng/kg	JBQ	U	B	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	1613B	12/17/2013	PH142	3.1	1	70648-26-9	1,2,3,4,7,8-HXCDF	5.1	U	0.0194	5.10	ng/kg	JBQ	U	B	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	1613B	12/17/2013	PH142	3.1	1	72918-21-9	1,2,3,7,8,9-HXCDF	5.1	U	0.0205	5.10	ng/kg	JBQ	U	B	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7429-90-5	ALUMINUM (FUME OR DUST)	13400		7.44	41.3	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7439-89-6	IRON	17900		3.74	41.3	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7439-92-1	LEAD	5.65		0.516	3.10	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7439-93-2	LITHIUM	27.4		0.35	4.1	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7439-95-4	MAGNESIUM	4480		1.72	10.3	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7439-96-5	MANGANESE	237		0.0857	1.03	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7439-98-7	MOLYBDENUM	2.06	U	0.175	2.06	mg/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7440-02-0	NICKEL	7.91		0.134	2.06	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7440-09-7	POTASSIUM	2490		8.61	103	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7440-23-5	SODIUM	58.9	J	17.2	103	mg/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7440-31-5	TIN	10.3	U	0.227	10.3	mg/kg	J	U	B	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7440-32-6	TITANIUM METAL POWDER	994		0.175	1.03	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7440-36-0	ANTIMONY	4.13	UJ	0.764	4.13	mg/kg	U	UJ	Q	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7440-38-2	ARSENIC	2.81	J	0.722	4.13	mg/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7440-39-3	BARIUM	56.3		0.0341	1.03	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7440-41-7	BERYLLIUM	0.577	J	0.0691	1.03	mg/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7440-42-8	BORON	1.24	J	0.867	10.3	mg/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7440-43-9	CADMIUM	0.303	J	0.0784	1.03	mg/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7440-47-3	CHROMIUM	13.6		0.165	3.10	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7440-48-4	COBALT	4.53		0.102	1.03	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7440-50-8	COPPER	1.31	J	0.299	2.06	mg/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7440-62-2	VANADIUM (FUME OR DUST)	28.2		0.134	1.03	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7440-66-6	ZINC	44.2		0.206	4.13	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7440-67-7	ZIRCONIUM	3.65	J	0.867	5.16	mg/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7440-70-2	CALCIUM METAL	2200		3.45	20.6	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6010C	12/16/2013	PH142	3.1	1	7723-14-0	PHOSPHORUS	280		2.98	10.3	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6020A	12/17/2013	PH142	3.1	2	7782-49-2	SELENIUM	0.413	U	0.103	0.413	mg/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6020A	12/17/2013	PH142	3.1	2	7440-22-4	SILVER	0.206	U	0.0268	0.206	mg/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6020A	12/17/2013	PH142	3.1	2	7440-24-6	STRONTIUM	10.7	J	0.0702	0.413	mg/kg		J	Q	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	6020A	12/17/2013	PH142	3.1	2	7440-28-0	THALLIUM	0.218		0.0310	0.206	mg/kg				1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	7471B	12/17/2013	PH142	3.1	1	7439-97-6	MERCURY	0.0166	U	0.010	0.0166	mg/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8015M	12/18/2013	PH142	3.1	1	PHCC12C14	EFH (C12-C14)	5.1	U	2.0	5.1	mg/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8015M	12/18/2013	PH142	3.1	1	PHCC15C20	EFH (C15-C20)	5.1	U	2.0	5.1	mg/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8015M	12/18/2013	PH142	3.1	1	PHCC21C30	EFH (C21-C30)	5.1	U	2.0	5.1	mg/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8015M	12/18/2013	PH142	3.1	1	PHCC30C40	EFH (C30-C40)	10	U	4.1	10	mg/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8015M	12/18/2013	PH142	3.1	1	PHCC8C11	EFH (C8-C11)	5.1	U	2.0	5.1	mg/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8015M	12/16/2013	PH142	3.1	24.51	GROC5C12	GASOLINE RANGE ORGANICS (C5-C12)	1	U	0.2	1.0	mg/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	19	U	6.2	19	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	117-84-0	Di-n-octylphthalate	19	U	6.2	19	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	120-12-7	ANTHRACENE	1.7	U	0.34	1.7	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	129-00-0	PYRENE	1.7	U	0.69	1.7	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	131-11-3	DIMETHYL PHTHALATE	19	U	6.2	19	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	191-24-2	BENZO(G,H,I)PERYLENE	1.7	U	0.69	1.7	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	192-97-2	Benzo(e)pyrene	17	U	3.4	17	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.7	U	0.69	1.7	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	205-99-2	BENZO(B)FLUORANTHENE	1.7	U	0.69	1.7	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	206-44-0	FLUORANTHENE	1.7	U	0.69	1.7	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	207-08-9	BENZO(K)FLUORANTHENE	1.7	U	0.69	1.7	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	1613B	12/17/2013	PH139	3.3	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	4.97	U	0.0196	4.97	ng/kg	JBQ	U	B	1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	1613B	12/17/2013	PH139	3.3	1	57117-31-4	2,3,4,7,8-PECDF	4.97	U	0.0245	4.97	ng/kg	JBQ	U	B	1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	1613B	12/17/2013	PH139	3.3	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	4.97	U	0.0262	4.97	ng/kg	JB	U	B	1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	1613B	12/17/2013	PH139	3.3	1	57117-44-9	1,2,3,6,7,8-HXCDF	4.97	U	0.0260	4.97	ng/kg	JBQ	U	B	1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	1613B	12/17/2013	PH139	3.3	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	4.97	U	0.0269	4.97	ng/kg	JBQ	U	B	1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	1613B	12/17/2013	PH139	3.3	1	60851-34-5	2,3,4,6,7,8-HXCDF	4.97	U	0.0259	4.97	ng/kg	JBQ	U	B	1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	1613B	12/17/2013	PH139	3.3	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	4.97	U	0.0152	4.97	ng/kg	JB	U	B	1787698.365	269193.639	-118.703339	34.237678

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	1613B	12/17/2013	PH139	3.3	1	70648-26-9	1,2,3,4,7,8-HXCDF	4.97	U	0.0279	4.97	ng/kg	JBQ	U	B	1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	1613B	12/17/2013	PH139	3.3	1	72918-21-9	1,2,3,7,8,9-HXCDF	4.97	U	0.0281	4.97	ng/kg	JB	U	B	1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	8015M	12/13/2013	PH139	3.3	1	PHCC12C14	EFH (C12-C14)	5.2	U	2.1	5.2	mg/kg	U			1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	8015M	12/13/2013	PH139	3.3	1	PHCC15C20	EFH (C15-C20)	5.2	U	2.1	5.2	mg/kg	U			1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	8015M	12/13/2013	PH139	3.3	1	PHCC21C30	EFH (C21-C30)	5.2	U	2.1	5.2	mg/kg	U			1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	8015M	12/13/2013	PH139	3.3	1	PHCC30C40	EFH (C30-C40)	10	U	4.1	10	mg/kg	U			1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	8015M	12/13/2013	PH139	3.3	1	PHCC8C11	EFH (C8-C11)	5.2	U	2.1	5.2	mg/kg	U			1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	8082A	12/11/2013	PH139	3.3	1	11096-82-5	Aroclor 1260	18	U	4.0	18	ug/kg	U			1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	8082A	12/11/2013	PH139	3.3	1	11097-69-1	Aroclor 1254	18	U	4.6	18	ug/kg	U			1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	8082A	12/11/2013	PH139	3.3	1	11100-14-4	Aroclor 1268	18	U	3.4	18	ug/kg	U			1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	8082A	12/11/2013	PH139	3.3	1	11104-28-2	Aroclor 1221	18	U	5.3	18	ug/kg	U			1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	8082A	12/11/2013	PH139	3.3	1	11126-42-4	Aroclor 5460	34	U	10	34	ug/kg	U			1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	8082A	12/11/2013	PH139	3.3	1	11141-16-5	Aroclor 1232	18	U	4.2	18	ug/kg	U			1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	8082A	12/11/2013	PH139	3.3	1	12642-23-8	Aroclor 5442	34	U	10	34	ug/kg	U			1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	8082A	12/11/2013	PH139	3.3	1	12672-29-6	Aroclor 1248	18	U	3.4	18	ug/kg	U			1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	8082A	12/11/2013	PH139	3.3	1	12674-11-2	Aroclor 1016	18	U	3.4	18	ug/kg	U			1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	8082A	12/11/2013	PH139	3.3	1	37324-23-5	Aroclor 1262	18	U	3.4	18	ug/kg	U			1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	8082A	12/11/2013	PH139	3.3	1	53469-21-9	Aroclor 1242	18	U	4.2	18	ug/kg	U			1787698.365	269193.639	-118.703339	34.237678
SL-548-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301933	LL	8082A	12/11/2013	PH139	3.3	1	63496-31-1	Aroclor 5432	34	U	10	34	ug/kg	U			1787698.365	269193.639	-118.703339	34.237678
SL-549-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301924	LL	160.3M	12/12/2013	PH139	1.9	1	MOIST	MOISTURE	1.9		0.10	0.10	%				1787357.41	269895.515	-118.704483	34.2396
SL-549-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301924	LL	8015M	12/13/2013	PH139	1.9	1	PHCC12C14	EFH (C12-C14)	5.1	U	2.0	5.1	mg/kg	U			1787357.41	269895.515	-118.704483	34.2396
SL-549-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301924	LL	8015M	12/13/2013	PH139	1.9	1	PHCC15C20	EFH (C15-C20)	5.1	U	2.0	5.1	mg/kg	U			1787357.41	269895.515	-118.704483	34.2396
SL-549-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301924	LL	8015M	12/13/2013	PH139	1.9	1	PHCC21C30	EFH (C21-C30)	13		2.0	5.1	mg/kg				1787357.41	269895.515	-118.704483	34.2396
SL-549-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301924	LL	8015M	12/13/2013	PH139	1.9	1	PHCC30C40	EFH (C30-C40)	24		4.1	10	mg/kg				1787357.41	269895.515	-118.704483	34.2396
SL-549-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301924	LL	8015M	12/13/2013	PH139	1.9	1	PHCC8C11	EFH (C8-C11)	5.1	U	2.0	5.1	mg/kg	U			1787357.41	269895.515	-118.704483	34.2396
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	160.3M	12/20/2013	PH157	3.1	1	MOIST	MOISTURE	3.1		0.10	0.10	%				1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	20		6.1	18	ug/kg				1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	117-84-0	Di-n-octylphthalate	18	U	6.1	18	ug/kg	U			1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	120-12-7	ANTHRACENE	1.7	U	0.34	1.7	ug/kg	U			1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	129-00-0	PYRENE	2		0.68	1.7	ug/kg				1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	131-11-3	DIMETHYL PHTHALATE	18	U	6.1	18	ug/kg	U			1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	191-24-2	BENZO(G,H,I)PERYLENE	0.88	J	0.68	1.7	ug/kg	J	J	Z	1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	192-97-2	Benzo(e)pyrene	17	U	3.4	17	ug/kg	U			1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.7	U	0.68	1.7	ug/kg	U			1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	205-99-2	BENZO(B)FLUORANTHENE	2.4		0.68	1.7	ug/kg				1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	206-44-0	FLUORANTHENE	2.2		0.68	1.7	ug/kg				1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	207-08-9	BENZO(K)FLUORANTHENE	0.88	J	0.68	1.7	ug/kg	J	J	Z	1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.34	1.7	ug/kg	U			1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	218-01-9	Chrysene	2.7		0.34	1.7	ug/kg				1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	50-32-8	BENZO(A)PYRENE	0.96	J	0.68	1.7	ug/kg	J	J	Z	1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.68	1.7	ug/kg	U			1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	56-55-3	BENZO(A)ANTHRACENE	1.3	J	0.68	1.7	ug/kg	J	J	Z	1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.68	1.7	ug/kg	U			1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	83-32-9	ACENAPHTHENE	1.7	U	0.68	1.7	ug/kg	U			1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	84-66-2	DIETHYL PHTHALATE	18	U	6.1	18	ug/kg	U			1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	84-74-2	Di-n-butylphthalate	18	U	6.1	18	ug/kg	U			1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	85-01-8	PHENANTHRENE	1.5	J	0.68	1.7	ug/kg	J	J	Z	1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	85-68-7	BENZYL BUTYL PHTHALATE	13	J	6.1	18	ug/kg	J	J	Z	1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	86-73-7	FLUORENE	1.7	U	0.68	1.7	ug/kg	U			1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	90-12-0	1-METHYLNAPHTHALENE	0.86	J	0.68	1.7	ug/kg	J	J	Z	1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	91-20-3	NAPHTHALENE	2.1		0.68	1.7	ug/kg				1788833.962	270552.01	-118.699613	34.241433
SL-551-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7316781	LL	8270D SIM	1/3/2014	PH157	3.1	1	91-57-6	2-METHYLNAPHTHALENE	1.1	J	0.68	1.7	ug/kg	J	J	Z	1788833.962	270552.01	-118.699613	34.241433
SL-525-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306301	LL	160.3M	12/13/2013	PH140	2	1	MOIST	MOISTURE	2		0.10	0.10	%				1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306301	LL	8015M	12/18/2013	PH140	2	1	PHCC12C14	EFH (C12-C14)	5.1	U	2.0	5.1	mg/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306301	LL	8015M	12/18/2013	PH140	2	1	PHCC15C20	EFH (C15-C20)	2.5	J	2.0	5.1	mg/kg	J	J	Z	1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306301	LL	8015M	12/18/2013	PH140	2	1	PHCC21C30	EFH (C21-C30)	18		2.0	5.1	mg/kg				1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306301	LL	8015M	12/18/2013	PH140	2	1	PHCC30C40	EFH (C30-C40)	20		4.1	10	mg/kg				1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306301	LL	8015M	12/18/2013	PH140	2	1	PHCC8C11	EFH (C8-C11)	5.1	U	2.0	5.1	mg/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306301	LL	8151A	12/16/2013	PH140	2	1	120-36-5	DICHLORPROP	17	U	9.2	17	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306301	LL	8151A	12/16/2013	PH140	2	1	1918-00-9	DICAMBA	12	U	4.1	12	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306301	LL	8151A	12/16/2013	PH140	2	1	75-99-0	2,2-DICHLOROPROPIONIC ACID	110	U	110	110	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306301	LL	8151A	12/16/2013	PH140	2	1	88-85-7	DINITROBUTYL PHENOL	24	U	9.2	24	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306301	LL	8151A	12/16/2013	PH140	2	1	93-65-2	MCPP	2500	U	760	2500	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306301	LL	8151A	12/16/2013	PH140	2	1	93-72-1	2,4,5-TP (Silvex)	1.4	J	0.76	1.7	ug/kg	J	J	Z	1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306301	LL	8151A	12/16/2013	PH140	2	1	93-76-5	2,4,5-T	1.7		0.83	1.7	ug/kg	J			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306301	LL	8151A	12/16/2013	PH140	2	1	94-74-6	MCPA (2-METHYL-4-CHLOROPHENOXYACETIC A	2500	U	770	2500	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306301	LL	8151A	12/16/2013	PH140	2	1	94-75-7	2,4-D	37	U	12	37	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306301	LL	8151A	12/16/2013	PH140	2	1	94-82-6	2,4-DB	30	U	30	30	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-4.0-5.0	12/5/2013	N	4	5	ft	SO	NBZ_DG		7306302	LL	160.3M	12/13/2013	PH140	2.6	1	MOIST	MOISTURE	2.6		0.10	0.10	%				1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-4.0-5.0	12/5/2013	N	4	5	ft	SO	NBZ_DG		7306302	LL	8015M	12/18/2013	PH140	2.6	1	PHCC12C14	EFH (C12-C14)	5.1	U	2.1	5.1	mg/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-4.0-5.0	12/5/2013	N	4	5	ft	SO	NBZ_DG		7306302	LL	8015M	12/18/2013	PH140	2.6	1	PHCC15C20	EFH (C15-C20)	5.1	U	2.1	5.1	mg/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-4.0-5.0	12/5/2013	N	4	5	ft	SO	NBZ_DG		7306302	LL	8015M	12/18/2013	PH140	2.6	1	PHCC21C30	EFH (C21-C30)	5.1	U	2.1	5.1	mg/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-4.0-5.0	12/5/2013	N	4	5	ft	SO	NBZ_DG		7306302	LL	8015M	12/18/2013	PH140	2.6	1	PHCC30C40	EFH (C30-C40)	10	U	4.1	10	mg/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-4.0-5.0	12/5/2013	N	4	5	ft	SO	NBZ_DG		7306302	LL	8015M	12/18/2013	PH140	2.6	1	PHCC8C11	EFH (C8-C11)	5.1	U	2.1	5.1	mg/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-4.0-5.0	12/5/2013	N	4	5	ft	SO	NBZ_DG		7306302	LL	8151A	12/16/2013	PH140	2.6	1	120-36-5	DICHLORPROP	17	U	9.2	17	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-4.0-5.0	12/5/2013	N	4	5	ft	SO	NBZ_DG		7306302	LL	8151A	12/16/2013	PH140	2.6	1	1918-00-9	DICAMBA	12	U	4.1	12	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-4.0-5.0	12/5/2013	N	4	5	ft	SO	NBZ_DG		7306302	LL	8151A	12/16/2013	PH140	2.6	1	75-99-0	2,2-DICHLOROPROPIONIC ACID	200	U	200	200	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-4.0-5.0	12/5/2013	N	4	5	ft	SO	NBZ_DG		7306302	LL	8151A	12/16/2013	PH140	2.6	1	88-85-7	DINITROBUTYL PHENOL	24	U	9.2	24	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-4.0-5.0	12/5/2013	N	4	5	ft	SO	NBZ_DG		7306302	LL	8151A	12/16/2013	PH140	2.6	1	93-65-2	MCPP	2500	U	760	2500	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-4.0-5.0	12/5/2013	N	4	5	ft	SO	NBZ_DG		7306302	LL	8151A	12/16/2013	PH140	2.6	1	93-72-1	2,4,5-TP (Silvex)	1.7	U	0.76	1.7	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-525-NBZ-SB-4.0-5.0	12/5/2013	N	4	5	ft	SO	NBZ_DG		7306302	LL	8151A	12/16/2013	PH140	2.6	1	93-76-5	2,4,5-T	1.7	U	0.84	1.7	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-4.0-5.0	12/5/2013	N	4	5	ft	SO	NBZ_DG		7306302	LL	8151A	12/16/2013	PH140	2.6	1	94-74-6	MCPA (2-METHYL-4-CHLOROPHENOXYACETIC A	2500	U	780	2500	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-4.0-5.0	12/5/2013	N	4	5	ft	SO	NBZ_DG		7306302	LL	8151A	12/16/2013	PH140	2.6	1	94-75-7	2,4-D	37	U	12	37	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-525-NBZ-SB-4.0-5.0	12/5/2013	N	4	5	ft	SO	NBZ_DG		7306302	LL	8151A	12/16/2013	PH140	2.6	1	94-82-6	2,4-DB	17	U	6.3	17	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	160.3M	12/13/2013	PH140	3.2	1	MOIST	MOISTURE	3.2		0.10	0.10	%				1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8015M	12/19/2013	PH140	3.2	5	PHCC12C14	EFH (C12-C14)	26	U	10	26	mg/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8015M	12/19/2013	PH140	3.2	5	PHCC15C20	EFH (C15-C20)	13	J	10	26	mg/kg	J	J	Z	1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8015M	12/19/2013	PH140	3.2	5	PHCC21C30	EFH (C21-C30)	110		10	26	mg/kg				1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8015M	12/19/2013	PH140	3.2	5	PHCC30C40	EFH (C30-C40)	210		21	52	mg/kg				1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8015M	12/19/2013	PH140	3.2	5	PHCC8C11	EFH (C8-C11)	26	U	10	26	mg/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	1024-57-3	HEPTACHLOR EPOXIDE	0.86	U	0.18	0.86	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	1031-07-8	ENDOSULFAN SULFATE	1.8	U	0.34	1.8	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	2385-85-5	MIREX	1.8	U	0.36	1.8	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	309-00-2	ALDRIN	0.86	U	0.18	0.86	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	319-84-6	ALPHA-BHC	0.86	U	0.18	0.86	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	319-85-7	BETA-BHC	2	U	0.99	2.0	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	319-86-8	DELTA-BHC	0.86	U	0.46	0.86	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	33213-65-9	ENDOSULFAN II	1.8	U	0.34	1.8	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	50-29-3	4,4'-DDT	0.78	J	0.36	1.8	ug/kg	J	J	Z	1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	53494-70-5	ENDRIN KETONE	1.9	U	0.62	1.9	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	57-74-9	CHLORDANE	18	U	4.1	18	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	58-89-9	gamma-BHC (Lindane)	0.86	U	0.18	0.86	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	60-57-1	DIELDRIN	1.8	U	0.34	1.8	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	72-20-8	ENDRIN	1.8	U	0.34	1.8	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	72-43-5	Methoxychlor	6.9	U	1.8	6.9	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	72-54-8	4,4'-DDD	1.8	U	0.34	1.8	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	72-55-9	4,4'-DDE	0.65	J	0.34	1.8	ug/kg	J	J	Z	1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	7421-93-4	ENDRIN ALDEHYDE	1.8	U	0.34	1.8	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	76-44-8	HEPTACHLOR	0.86	U	0.18	0.86	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	8001-35-2	Toxaphene	34	U	14	34	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8081B	12/16/2013	PH140	3.2	1	959-98-8	ENDOSULFAN I	0.86	U	0.23	0.86	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8151A	12/16/2013	PH140	3.2	1	120-36-5	DICHLORPROP	17	U	9.1	17	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8151A	12/16/2013	PH140	3.2	1	1918-00-9	DICAMBA	12	U	4.1	12	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8151A	12/16/2013	PH140	3.2	1	75-99-0	2,2-DICHLOR0PROPIONIC ACID	91	U	45	91	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8151A	12/16/2013	PH140	3.2	1	88-85-7	DINITROBUTYL PHENOL	24	U	9.1	24	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8151A	12/16/2013	PH140	3.2	1	93-65-2	MCPP	2500	U	760	2500	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8151A	12/16/2013	PH140	3.2	1	93-72-1	2,4,5-TP (Silvex)	1.7	U	0.76	1.7	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8151A	12/16/2013	PH140	3.2	1	93-76-5	2,4,5-T	1.7	U	0.83	1.7	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8151A	12/16/2013	PH140	3.2	1	94-74-6	MCPA (2-METHYL-4-CHLOROPHENOXYACETIC A	2500	U	770	2500	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8151A	12/16/2013	PH140	3.2	1	94-75-7	2,4-D	37	U	12	37	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306306	LL	8151A	12/16/2013	PH140	3.2	1	94-82-6	2,4-DB	24	J	6.3	17	ug/kg		J	L	1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	160.3M	12/13/2013	PH140	3.3	1	MOIST	MOISTURE	3.3		0.10	0.10	%				1784932.453	267991.125	-118.712462	34.234321
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	85-01-8	PHENANTHRENE	2.1		0.69	1.7	ug/kg				1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	85-68-7	BENZYL BUTYL PHTHALATE	19	UJ	6.2	19	ug/kg	U	UJ	FD	1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	86-73-7	FLUORENE	1.7	UJ	0.69	1.7	ug/kg	U	UJ	FD	1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	90-12-0	1-METHYLNAPHTHALENE	1.7	UJ	0.69	1.7	ug/kg	U	UJ	FD	1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	91-20-3	NAPHTHALENE	1.7		0.69	1.7	ug/kg				1783473.481	267912.36	-118.717287	34.234076
SL-524-NBZ-SB-0.0-0.5	12/9/2013	N	0	0.5	ft	SO	NBZ_DG		7307349	LL	8270D SIM	12/27/2013	PH142	4.6	1	91-57-6	2-METHYLNAPHTHALENE	0.87	J	0.69	1.7	ug/kg	J	J	Z	1783473.481	267912.36	-118.717287	34.234076
SL-553-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308297	LL	160.3M	12/13/2013	PH143	6.9	1	MOIST	MOISTURE	6.9		0.10	0.10	%				1783439.566	269919.631	-118.717447	34.239591
SL-553-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308297	LL	8082A	12/16/2013	PH143	6.9	1	11096-82-5	Aroclor 1260	18	U	4.2	18	ug/kg	U			1783439.566	269919.631	-118.717447	34.239591
SL-553-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308297	LL	8082A	12/16/2013	PH143	6.9	1	11097-69-1	Aroclor 1254	18	U	4.7	18	ug/kg	U			1783439.566	269919.631	-118.717447	34.239591
SL-553-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308297	LL	8082A	12/16/2013	PH143	6.9	1	11100-14-4	Aroclor 1268	18	U	3.5	18	ug/kg	U			1783439.566	269919.631	-118.717447	34.239591
SL-553-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308297	LL	8082A	12/16/2013	PH143	6.9	1	11104-28-2	Aroclor 1221	18	U	5.5	18	ug/kg	U			1783439.566	269919.631	-118.717447	34.239591
SL-553-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308297	LL	8082A	12/16/2013	PH143	6.9	1	11126-42-4	Aroclor 5460	35	U	11	35	ug/kg	U			1783439.566	269919.631	-118.717447	34.239591
SL-553-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308297	LL	8082A	12/16/2013	PH143	6.9	1	11141-16-5	Aroclor 1232	18	U	4.4	18	ug/kg	U			1783439.566	269919.631	-118.717447	34.239591
SL-553-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308297	LL	8082A	12/16/2013	PH143	6.9	1	12642-23-8	Aroclor 5442	35	U	11	35	ug/kg	U			1783439.566	269919.631	-118.717447	34.239591
SL-553-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308297	LL	8082A	12/16/2013	PH143	6.9	1	12672-29-6	Aroclor 1248	18	U	3.5	18	ug/kg	U			1783439.566	269919.631	-118.717447	34.239591
SL-553-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308297	LL	8082A	12/16/2013	PH143	6.9	1	12674-11-2	Aroclor 1016	18	U	3.5	18	ug/kg	U			1783439.566	269919.631	-118.717447	34.239591
SL-553-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308297	LL	8082A	12/16/2013	PH143	6.9	1	37324-23-5	Aroclor 1262	18	U	3.5	18	ug/kg	U			1783439.566	269919.631	-118.717447	34.239591
SL-553-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308297	LL	8082A	12/16/2013	PH143	6.9	1	53469-21-9	Aroclor 1242	18	U	4.4	18	ug/kg	U			1783439.566	269919.631	-118.717447	34.239591
SL-553-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308297	LL	8082A	12/16/2013	PH143	6.9	1	63496-31-1	Aroclor 5432	35	U	11	35	ug/kg	U			1783439.566	269919.631	-118.717447	34.239591
SL-554-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308298	LL	160.3M	12/13/2013	PH143	1.2	1	MOIST	MOISTURE	1.2		0.10	0.10	%				1783604.887	269724.279	-118.716895	34.239057
SL-554-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308298	LL	8082A	12/16/2013	PH143	1.2	1	11096-82-5	Aroclor 1260	17	U	3.9	17	ug/kg	U			1783604.887	269724.279	-118.716895	34.239057
SL-554-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308298	LL	8082A	12/16/2013	PH143	1.2	1	11097-69-1	Aroclor 1254	17	U	4.5	17	ug/kg	U			1783604.887	269724.279	-118.716895	34.239057
SL-554-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308298	LL	8082A	12/16/2013	PH143	1.2	1	11100-14-4	Aroclor 1268	17	U	3.3	17	ug/kg	U			1783604.887	269724.279	-118.716895	34.239057
SL-554-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308298	LL	8082A	12/16/2013	PH143	1.2	1	11104-28-2	Aroclor 1221	17	U	5.2	17	ug/kg	U			1783604.887	269724.279	-118.716895	34.239057
SL-554-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308298	LL	8082A	12/16/2013	PH143	1.2	1	11126-42-4	Aroclor 5460	33	U	10	33	ug/kg	U			1783604.887	269724.279	-118.716895	34.239057
SL-554-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308298	LL	8082A	12/16/2013	PH143	1.2	1	11141-16-5	Aroclor 1232	17	U	4.1	17	ug/kg	U			1783604.887	269724.279	-118.716895	34.239057
SL-554-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308298	LL	8082A	12/16/2013	PH143	1.2	1	12642-23-8	Aroclor 5442	33	U	10	33	ug/kg	U			1783604.887	269724.279	-118.716895	34.239057
SL-554-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308298	LL	8082A	12/16/2013	PH143	1.2	1	12672-29-6	Aroclor 1248	17	U	3.3	17	ug/kg	U			1783604.887	269724.279	-118.716895	34.239057
SL-554-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308298	LL	8082A	12/16/2013	PH143	1.2	1	12674-11-2	Aroclor 1016	17	U	3.3	17	ug/kg	U			1783604.887	269724.279	-118.716895	34.239057
SL-554-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308298	LL	8082A	12/16/2013	PH143	1.2	1	37324-23-5	Aroclor 1262	17	U	3.3	17	ug/kg	U			1783604.887	269724.279	-118.716895	34.239057
SL-554-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308298	LL	8082A	12/16/2013	PH143	1.2	1	53469-21-9	Aroclor 1242	17	U	4.1	17	ug/kg	U			1783604.887	269724.279	-118.716895	34.239057
SL-554-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308298	LL	8082A	12/16/2013	PH143	1.2	1	63496-31-1	Aroclor 5432	33	U	10	33	ug/kg	U			1783604.887	269724.279	-118.716895	34.239057
SL-555-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308299	LL	160.3M	12/13/2013	PH143	4.7	1	MOIST	MOISTURE	4.7		0.10	0.10	%				1783681.195	269461.319	-118.716636	34.238336
SL-555-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308299	LL	8082A	12/16/2013	PH143	4.7	1	11096-82-5	Aroclor 1260	18	U	4.1	18	ug/kg	U			1783681.195	269461.319	-118.716636	34.238336
SL-555-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308299	LL	8082A	12/16/2013	PH143	4.7	1	11097-69-1	Aroclor 1254	18	U	4.6	18	ug/kg	U			1783681.195	269461.319	-118.716636	34.238336
SL-555-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308299	LL	8082A	12/16/2013	PH143	4.7	1	11100-14-4	Aroclor 1268	18	U	3.5	18	ug/kg	U			1783681.195	269461.319	-118.716636	34.238336
SL-555-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308299	LL	8082A	12/16/2013	PH143	4.7	1	11104-28-2	Aroclor 1221	18	U	5.3	18	ug/kg	U			1783681.195	269461.319	-118.716636	34.238336
SL-555-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308299	LL	8082A	12/16/2013	PH143	4.7	1	11126-42-4	Aroclor 5460	35	U	10	35	ug/kg	U			1783681.195	269461.319	-118.716636	34.238336

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-555-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308299	LL	8082A	12/16/2013	PH143	4.7	1	11141-16-5	Aroclor 1232	18	U	4.3	18	ug/kg	U			1783681.195	269461.319	-118.716636	34.238336
SL-555-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308299	LL	8082A	12/16/2013	PH143	4.7	1	12642-23-8	Aroclor 5442	35	U	10	35	ug/kg	U			1783681.195	269461.319	-118.716636	34.238336
SL-555-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308299	LL	8082A	12/16/2013	PH143	4.7	1	12672-29-6	Aroclor 1248	18	U	3.5	18	ug/kg	U			1783681.195	269461.319	-118.716636	34.238336
SL-555-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308299	LL	8082A	12/16/2013	PH143	4.7	1	12674-11-2	Aroclor 1016	18	U	3.5	18	ug/kg	U			1783681.195	269461.319	-118.716636	34.238336
SL-555-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308299	LL	8082A	12/16/2013	PH143	4.7	1	37324-23-5	Aroclor 1262	18	U	3.5	18	ug/kg	U			1783681.195	269461.319	-118.716636	34.238336
SL-555-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308299	LL	8082A	12/16/2013	PH143	4.7	1	53469-21-9	Aroclor 1242	18	U	4.3	18	ug/kg	U			1783681.195	269461.319	-118.716636	34.238336
SL-555-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7308299	LL	8082A	12/16/2013	PH143	4.7	1	63496-31-1	Aroclor 5432	35	U	10	35	ug/kg	U			1783681.195	269461.319	-118.716636	34.238336
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	160.3M	12/18/2013	PH146	3	1	MOIST	MOISTURE	3		0.10	0.10	%				1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	74	J	61	180	ug/kg	J	J	Z	1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	117-84-0	Di-n-octylphthalate	180	U	61	180	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	120-12-7	ANTHRACENE	17	U	3.4	17	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	129-00-0	PYRENE	17	U	6.8	17	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	131-11-3	DIMETHYL PHTHALATE	180	U	61	180	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	191-24-2	BENZO(G,H,I)PERYLENE	17	U	6.8	17	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	192-97-2	Benzo(e)pyrene	170	U	34	170	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	193-39-5	INDENO(1,2,3-CD)PYRENE	17	U	6.8	17	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	205-99-2	BENZO(B)FLUORANTHENE	17	U	6.8	17	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	206-44-0	FLUORANTHENE	17	U	6.8	17	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	207-08-9	BENZO(K)FLUORANTHENE	17	U	6.8	17	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	208-96-8	ACENAPHTHYLENE	17	U	3.4	17	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	218-01-9	Chrysene	8.2	J	3.4	17	ug/kg	J	J	Z	1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	50-32-8	BENZO(A)PYRENE	17	U	6.8	17	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	53-70-3	DIBENZO(A,H)ANTHRACENE	17	U	6.8	17	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	56-55-3	BENZO(A)ANTHRACENE	17	U	6.8	17	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	17	U	6.8	17	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	83-32-9	ACENAPHTHENE	17	U	6.8	17	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	84-66-2	DIETHYL PHTHALATE	180	U	61	180	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	84-74-2	Di-n-butylphthalate	180	U	61	180	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	85-01-8	PHENANTHRENE	8.2	J	6.8	17	ug/kg	J	J	Z	1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	85-68-7	BENZYL BUTYL PHTHALATE	180	U	61	180	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	86-73-7	FLUORENE	17	U	6.8	17	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	90-12-0	1-METHYLNAPHTHALENE	17	U	6.8	17	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	91-20-3	NAPHTHALENE	21		6.8	17	ug/kg				1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7310856	LL	8270D SIM	12/29/2013	PH146	3	10	91-57-6	2-METHYLNAPHTHALENE	6.8	J	6.8	17	ug/kg	J	J	Z	1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	160.3M	12/18/2013	PH146	2.6	1	MOIST	MOISTURE	2.6		0.10	0.10	%				1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	16	J	6.1	18	ug/kg	J	J	Z	1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	117-84-0	Di-n-octylphthalate	18	U	6.1	18	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	120-12-7	ANTHRACENE	1.7	J	0.34	1.7	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	129-00-0	PYRENE	1.7	U	0.34	1.7	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	131-11-3	DIMETHYL PHTHALATE	18	U	6.1	18	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	191-24-2	BENZO(G,H,I)PERYLENE	1.7	U	0.68	1.7	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	192-97-2	Benzo(e)pyrene	17	U	3.4	17	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.7	U	0.68	1.7	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	205-99-2	BENZO(B)FLUORANTHENE	0.96	J	0.68	1.7	ug/kg	J	J	Z	1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	206-44-0	FLUORANTHENE	0.75	J	0.68	1.7	ug/kg	J	J	Z	1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	207-08-9	BENZO(K)FLUORANTHENE	1.7	U	0.68	1.7	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.34	1.7	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	218-01-9	Chrysene	1.3	J	0.34	1.7	ug/kg	J	J	Z	1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	50-32-8	BENZO(A)PYRENE	1.7	U	0.68	1.7	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.68	1.7	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	56-55-3	BENZO(A)ANTHRACENE	0.76	J	0.68	1.7	ug/kg	J	J	Z	1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.68	1.7	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	83-32-9	ACENAPHTHENE	1.7	U	0.68	1.7	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	84-66-2	DIETHYL PHTHALATE	18	U	6.1	18	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	84-74-2	Di-n-butylphthalate	18	U	6.1	18	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	85-01-8	PHENANTHRENE	0.75	J	0.68	1.7	ug/kg	J	J	Z	1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	85-68-7	BENZYL BUTYL PHTHALATE	58		6.1	18	ug/kg				1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	86-73-7	FLUORENE	1.7	U	0.68	1.7	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	90-12-0	1-METHYLNAPHTHALENE	1.7	U	0.68	1.7	ug/kg	U			1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	91-20-3	NAPHTHALENE	2.6		0.68	1.7	ug/kg				1788874.504	270428.39	-118.699476	34.241094
SL-552-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7310857	LL	8270D SIM	12/31/2013	PH146	2.6	1	91-57-6	2-METHYLNAPHTHALENE	0.88	J	0.68	1.7	ug/kg	J	J	Z	1788874.504	270428.39	-118.699476	34.241094
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	160.3M	12/18/2013	PH148	5.5	1	MOIST	MOISTURE	5.5		0.10	0.10	%				1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	1613B	12/24/2013	PH148	5.5	1	1746-01-6	2,3,7,8-TCDD	1.03	U	0.0839	1.03	ng/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	1613B	12/24/2013	PH148	5.5	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	0.297	J	0.0452	5.17	ng/kg	J	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	1613B	12/24/2013	PH148	5.5	1	3268-87-9	OCDD	33.8		0.0283	10.3	ng/kg	B			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	1613B	12/24/2013	PH148	5.5	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	3.9	J	0.0404	5.17	ng/kg	JB	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	1613B	12/24/2013	PH148	5.5	1	39001-02-0	OCDF	2.03	J	0.0448	10.3	ng/kg	JB	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	1613B	12/24/2013	PH148	5.5	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	0.151	J	0.0451	5.17	ng/kg	J	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	1613B	12/24/2013	PH148	5.5	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	0.129	J	0.0494	5.17	ng/kg	JQ	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	1613B	12/24/2013	PH148	5.5	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	0.246	J	0.0810	1.03	ng/kg	JQ	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	1613B	12/24/2013	PH148	5.5	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	5.17	U	0.0493	5.17	ng/kg	JBQ	U	B	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	1613B	12/24/2013	PH148	5.5	1	57117-31-4	2,3,4,7,8-PECDF	0.43	J	0.0339	5.17	ng/kg	JB	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	1613B	12/24/2013	PH148	5.5	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	5.17	U	0.0369	5.17	ng/kg	JB	U	B	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	1613B	12/24/2013	PH148	5.5	1	57117-44-9	1,2,3,6,7,8-HXCDF	0.169	J	0.0297	5.17	ng/kg	JQ	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	1613B	12/24/2013	PH148	5.5	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.17	U	0.0471	5.17	ng/kg	JBQ	U	B	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	1613B	12/24/2013	PH148	5.5	1	60851-34-5	2,3,4,6,7,8-HXCDF	5.17	U	0.0299	5.17	ng/kg	JB	U	B	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	1613B	12/24/2013	PH148	5.5	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	1.01	J	0.0360	5.17	ng/kg	JBQ	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	1613B	12/24/2013	PH148	5.5	1	70648-26-9	1,2,3,4,7,8-HXCDF	5.17	U	0.0325	5.17	ng/kg	JBQ	U	B	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	1613B	12/24/2013	PH148	5.5	1	72918-21-9	1,2,3,7,8,9-HXCDF	5.17	U	0.0352	5.17	ng/kg	JB	U	B	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8015M	12/23/2013	PH148	5.5	5	PHCC12C14	EFH (C12-C14)	26	U	11	26	mg/kg	U			1786091.076	269361.512	-118.708661	34.238109

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	1613B	12/25/2013	PH155	2.8	1	3268-87-9	OCDD	10	J	0.0218	10.3	ng/kg	JB	J	Z	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	1613B	12/25/2013	PH155	2.8	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	1.45	J	0.0258	5.13	ng/kg	JB	J	Z	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	1613B	12/25/2013	PH155	2.8	1	39001-02-0	OCDF	0.824	J	0.0298	10.3	ng/kg	JB	J	Z	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	1613B	12/25/2013	PH155	2.8	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.13	U	0.0329	5.13	ng/kg	JBQ	U	B	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	1613B	12/25/2013	PH155	2.8	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	5.13	U	0.0360	5.13	ng/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	1613B	12/25/2013	PH155	2.8	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	0.0786	J	0.0440	1.03	ng/kg	JQ	J	Z	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	1613B	12/25/2013	PH155	2.8	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	5.13	U	0.0212	5.13	ng/kg	JBQ	U	B	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	1613B	12/25/2013	PH155	2.8	1	57117-31-4	2,3,4,7,8-PECDF	5.13	U	0.0186	5.13	ng/kg	JBQ	U	B	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	1613B	12/25/2013	PH155	2.8	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	5.13	U	0.0206	5.13	ng/kg	JBQ	U	B	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	1613B	12/25/2013	PH155	2.8	1	57117-44-9	1,2,3,6,7,8-HXCDF	5.13	U	0.0202	5.13	ng/kg	JB	U	B	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	1613B	12/25/2013	PH155	2.8	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.13	U	0.0341	5.13	ng/kg	JB	U	B	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	1613B	12/25/2013	PH155	2.8	1	60851-34-5	2,3,4,6,7,8-HXCDF	5.13	U	0.0199	5.13	ng/kg	JB	U	B	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	1613B	12/25/2013	PH155	2.8	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	5.13	U	0.0172	5.13	ng/kg	JB	U	B	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	1613B	12/25/2013	PH155	2.8	1	70648-26-9	1,2,3,4,7,8-HXCDF	5.13	U	0.0208	5.13	ng/kg	JBQ	U	B	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	1613B	12/25/2013	PH155	2.8	1	72918-21-9	1,2,3,7,8,9-HXCDF	5.13	U	0.0213	5.13	ng/kg	JBQ	U	B	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7439-92-1	LEAD	11.5		0.490	2.94	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7439-93-2	LITHIUM	16.9		0.33	3.9	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7439-96-5	MANGANESE	246		0.0813	0.980	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7439-98-7	MOLYBDENUM	1.96	U	0.167	1.96	mg/kg	J	U	F	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7440-02-0	NICKEL	9.63		0.127	1.96	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7440-09-7	POTASSIUM	3580		8.17	98.0	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7440-23-5	SODIUM	71.2	J	16.4	98.0	mg/kg	J	J	Z	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7440-31-5	TIN	9.8	U	0.216	9.80	mg/kg	J	U	B	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7440-32-6	TITANIUM METAL POWDER	812		0.167	0.980	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7440-36-0	ANTIMONY	1.46	J	0.725	3.92	mg/kg	J	J	Q, Z	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7440-38-2	ARSENIC	5.76		0.686	3.92	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7440-39-3	BARIUM	64.6		0.0323	0.980	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7440-41-7	BERYLLIUM	0.579	J	0.0656	0.980	mg/kg	J	J	Z	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7440-42-8	BORON	5.54	J	0.823	9.80	mg/kg	J	J	Z	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7440-43-9	CADMIUM	0.98	U	0.0745	0.980	mg/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7440-47-3	CHROMIUM	15.9		0.157	2.94	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7440-48-4	COBALT	6.05		0.0970	0.980	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7440-50-8	COPPER	11.6		0.284	1.96	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7440-62-2	VANADIUM (FUME OR DUST)	35.8		0.127	0.980	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7440-66-6	ZINC	52.6		0.196	3.92	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7440-67-7	ZIRCONIUM	2.03	J	0.823	4.90	mg/kg	J	J	Z	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/26/2013	PH155	2.8	1	7723-14-0	PHOSPHORUS	447	J	2.83	9.80	mg/kg		J	Q	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/27/2013	PH155	2.8	1	7429-90-5	ALUMINUM (FUME OR DUST)	12500		7.06	39.2	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/27/2013	PH155	2.8	1	7439-89-6	IRON	20200		3.55	39.2	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/27/2013	PH155	2.8	1	7439-95-4	MAGNESIUM	5350		1.64	9.80	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6010C	12/27/2013	PH155	2.8	1	7440-70-2	CALCIUM METAL	3240		3.27	19.6	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6020A	1/4/2014	PH155	2.8	2	7440-22-4	SILVER	0.0429	J	0.0255	0.196	mg/kg	J	J	Z	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6020A	1/4/2014	PH155	2.8	2	7440-28-0	THALLIUM	0.301		0.0294	0.196	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6020A	1/7/2014	PH155	2.8	5	7440-24-6	STRONTIUM	24.6		0.167	0.980	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	6020A	1/4/2014	PH155	2.8	2	7782-49-2	SELENIUM	0.181	J	0.0980	0.392	mg/kg	J	J	Z	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	7471B	12/23/2013	PH155	2.8	1	7439-97-6	MERCURY	0.0165	U	0.0099	0.0165	mg/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8015M	12/23/2013	PH155	2.8	1	PHCC12C14	EFH (C12-C14)	5.1	U	2.0	5.1	mg/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8015M	12/23/2013	PH155	2.8	1	PHCC15C20	EFH (C15-C20)	2.8	J	2.0	5.1	mg/kg	J	J	Z	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8015M	12/23/2013	PH155	2.8	1	PHCC21C30	EFH (C21-C30)	18		2.0	5.1	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8015M	12/23/2013	PH155	2.8	1	PHCC30C40	EFH (C30-C40)	42		4.1	10	mg/kg				1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8015M	12/23/2013	PH155	2.8	1	PHCC8C11	EFH (C8-C11)	5.1	U	2.0	5.1	mg/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	18	U	6.1	18	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	117-84-0	Di-n-octylphthalate	18	U	6.1	18	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	120-12-7	ANTHRACENE	1.7	U	0.34	1.7	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	129-00-0	PYRENE	0.68	J	0.67	1.7	ug/kg	J	J	Z	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	131-11-3	DIMETHYL PHTHALATE	18	U	6.1	18	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	191-24-2	BENZO(G,H,I)PERYLENE	1.7	U	0.67	1.7	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	192-97-2	Benzo(e)pyrene	17	U	3.4	17	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.7	U	0.67	1.7	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	205-99-2	BENZO(B)FLUORANTHENE	0.97	J	0.67	1.7	ug/kg	J	J	Z	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	206-44-0	FLUORANTHENE	0.7	J	0.67	1.7	ug/kg	J	J	Z	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	207-08-9	BENZO(K)FLUORANTHENE	1.7	U	0.67	1.7	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.34	1.7	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	218-01-9	Chrysene	1	J	0.34	1.7	ug/kg	J	J	Z	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	50-32-8	BENZO(A)PYRENE	1.7	U	0.67	1.7	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.67	1.7	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	56-55-3	BENZO(A)ANTHRACENE	1.7	U	0.67	1.7	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.67	1.7	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	83-32-9	ACENAPHTHENE	1.7	U	0.67	1.7	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	84-66-2	DIETHYL PHTHALATE	18	U	6.1	18	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	84-74-2	Di-n-butylphthalate	18	U	6.1	18	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	85-01-8	PHENANTHRENE	1.7	U	0.67	1.7	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	85-68-7	BENZYL BUTYL PHTHALATE	18	U	6.1	18	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	86-73-7	FLUORENE	1.7	U	0.67	1.7	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	90-12-0	1-METHYLNAPHTHALENE	1.7	U	0.67	1.7	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	91-20-3	NAPHTHALENE	0.82	J	0.67	1.7	ug/kg	J	J	Z	1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	8270D SIM	1/2/2014	PH155	2.8	1	91-57-6	2-METHYLNAPHTHALENE	1.7	U	0.67	1.7	ug/kg	U			1781689.64	268207.728	-118.723196	34.234852
SL-519-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315440	LL	9045M	12/17/2013	PH155	2.8	1	pH	PH	6.56		0.0100	0.0100	pH unit				1781689.64	268207.728	-118.723196	34.234852
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	160.3M	12/20/2013	PH155	1.5	1	MOIST	MOISTURE	1.5		0.10	0.10	%				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	1613B	12/25/2013	PH155	1.5	1	1746-01-6	2,3,7,8-TCDD	0.997	U	0.0386	0.997	ng/kg	U			1781522.144	267493.086	-118.723733	34.232885

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	1613B	12/25/2013	PH155	1.5	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	0.578	J	0.0258	4.99	ng/kg	JB	J	Z	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	1613B	12/25/2013	PH155	1.5	1	3268-87-9	OCDD	9.9	J	0.0157	9.97	ng/kg	JB	J	Z	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	1613B	12/25/2013	PH155	1.5	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	1.27	J	0.0203	4.99	ng/kg	JB	J	Z	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	1613B	12/25/2013	PH155	1.5	1	39001-02-0	OCDF	9.97	U	0.0222	9.97	ng/kg	JBQ	U	B	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	1613B	12/25/2013	PH155	1.5	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	4.99	U	0.0258	4.99	ng/kg	JB	U	B	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	1613B	12/25/2013	PH155	1.5	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	4.99	U	0.0326	4.99	ng/kg	JBQ	U	B	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	1613B	12/25/2013	PH155	1.5	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	0.102	J	0.0396	0.997	ng/kg	J	J	Z	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	1613B	12/25/2013	PH155	1.5	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	4.99	U	0.0182	4.99	ng/kg	JBQ	U	B	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	1613B	12/25/2013	PH155	1.5	1	57117-31-4	2,3,4,7,8-PECDF	4.99	U	0.0188	4.99	ng/kg	JBQ	U	B	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	1613B	12/25/2013	PH155	1.5	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	4.99	U	0.0199	4.99	ng/kg	JBQ	U	B	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	1613B	12/25/2013	PH155	1.5	1	57117-44-9	1,2,3,6,7,8-HXCDF	4.99	U	0.0179	4.99	ng/kg	JBQ	U	B	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	1613B	12/25/2013	PH155	1.5	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	0.355	J	0.0257	4.99	ng/kg	JB	J	Z	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	1613B	12/25/2013	PH155	1.5	1	60851-34-5	2,3,4,6,7,8-HXCDF	4.99	U	0.0176	4.99	ng/kg	JBQ	U	B	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	1613B	12/25/2013	PH155	1.5	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	4.99	U	0.0154	4.99	ng/kg	JBQ	U	B	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	1613B	12/25/2013	PH155	1.5	1	70648-26-9	1,2,3,4,7,8-HXCDF	4.99	U	0.0182	4.99	ng/kg	JBQ	U	B	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	1613B	12/25/2013	PH155	1.5	1	72918-21-9	1,2,3,7,8,9-HXCDF	4.99	U	0.0195	4.99	ng/kg	JB	U	B	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7439-92-1	LEAD	9.28		0.498	2.99	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7439-93-2	LITHIUM	10.5		0.34	4.0	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7439-96-5	MANGANESE	185		0.0826	0.995	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7439-98-7	MOLYBDENUM	1.99	U	0.169	1.99	mg/kg	J	U	F	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7440-02-0	NICKEL	6.88		0.129	1.99	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7440-09-7	POTASSIUM	2750		8.30	99.5	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7440-23-5	SODIUM	58.3	J	16.6	99.5	mg/kg	J	J	Z	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7440-31-5	TIN	9.95	U	0.219	9.95	mg/kg	J	U	B	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7440-32-6	TITANIUM METAL POWDER	647		0.169	0.995	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7440-36-0	ANTIMONY	1.15	J	0.737	3.98	mg/kg	J	J	Q, Z	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7440-38-2	ARSENIC	4.88		0.697	3.98	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7440-39-3	BARIUM	48		0.0328	0.995	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7440-41-7	BERYLLIUM	0.393	J	0.0667	0.995	mg/kg	J	J	Z	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7440-42-8	BORON	5.5	J	0.836	9.95	mg/kg	J	J	Z	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7440-43-9	CADMIUM	0.995	U	0.0756	0.995	mg/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7440-47-3	CHROMIUM	10.9		0.159	2.99	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7440-48-4	COBALT	5.23		0.0985	0.995	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7440-50-8	COPPER	8.38		0.289	1.99	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7440-62-2	VANADIUM (FUME OR DUST)	27.7		0.129	0.995	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7440-66-6	ZINC	39.9		0.199	3.98	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7440-67-7	ZIRCONIUM	1.8	J	0.836	4.98	mg/kg	J	J	Z	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/26/2013	PH155	1.5	1	7723-14-0	PHOSPHORUS	332	J	2.88	9.95	mg/kg		J	Q	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/27/2013	PH155	1.5	1	7429-90-5	ALUMINUM (FUME OR DUST)	8940		7.18	39.8	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/27/2013	PH155	1.5	1	7439-89-6	IRON	14800		3.60	39.8	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/27/2013	PH155	1.5	1	7439-95-4	MAGNESIUM	3970		1.66	9.95	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6010C	12/27/2013	PH155	1.5	1	7440-70-2	CALCIUM METAL	3060		3.32	19.9	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6020A	1/4/2014	PH155	1.5	2	7440-22-4	SILVER	0.199	U	0.0259	0.199	mg/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6020A	1/4/2014	PH155	1.5	2	7440-24-6	STRONTIUM	17.9		0.0677	0.398	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8015M	12/12/2013	PH139	4.4	1	PHCC12C14	EFH (C12-C14)	5.2	U	2.1	5.2	mg/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8015M	12/12/2013	PH139	4.4	1	PHCC15C20	EFH (C15-C20)	5.2	U	2.1	5.2	mg/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8015M	12/12/2013	PH139	4.4	1	PHCC21C30	EFH (C21-C30)	4.3	J	2.1	5.2	mg/kg	J	J	Z	1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8015M	12/12/2013	PH139	4.4	1	PHCC30C40	EFH (C30-C40)	13		4.2	10	mg/kg				1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8015M	12/12/2013	PH139	4.4	1	PHCC8C11	EFH (C8-C11)	5.2	U	2.1	5.2	mg/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	1024-57-3	HEPTACHLOR EPOXIDE	0.87	U	0.18	0.87	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	1031-07-8	ENDOSULFAN SULFATE	1.8	U	0.34	1.8	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	2385-85-5	MIREX	1.8	U	0.36	1.8	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	309-00-2	ALDRIN	0.87	U	0.18	0.87	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	319-84-6	ALPHA-BHC	0.87	U	0.18	0.87	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	319-85-7	BETA-BHC	2	U	1.0	2.0	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	319-86-8	DELTA-BHC	0.87	U	0.47	0.87	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	33213-65-9	ENDOSULFAN II	1.8	U	0.34	1.8	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	50-29-3	4,4'-DDT	1.8	U	0.36	1.8	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	53494-70-5	ENDRIN KETONE	1.9	U	0.63	1.9	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	57-74-9	CHLORDANE	18	U	4.2	18	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	58-89-9	gamma-BHC (Lindane)	0.87	U	0.18	0.87	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	60-57-1	DIELDRIN	1.8	U	0.34	1.8	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	72-20-8	ENDRIN	1.8	U	0.34	1.8	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	72-43-5	Methoxychlor	7	U	1.8	7.0	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	72-54-8	4,4'-DDD	1.8	U	0.34	1.8	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	72-55-9	4,4'-DDE	1.8	U	0.34	1.8	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	7421-93-4	ENDRIN ALDEHYDE	1.8	U	0.34	1.8	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	76-44-8	HEPTACHLOR	0.87	U	0.18	0.87	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	8001-35-2	Toxaphene	34	U	15	34	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-506-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301917	LL	8081B	12/16/2013	PH139	4.4	1	959-98-8	ENDOSULFAN I	0.87	U	0.23	0.87	ug/kg	U			1781821.333	266506.007	-118.722719	34.230179
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	160.3M	12/12/2013	PH139	4.5	1	MOIST	MOISTURE	4.5		0.10	0.10	%				1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8015M	12/12/2013	PH139	4.5	1	PHCC12C14	EFH (C12-C14)	5.2	U	2.1	5.2	mg/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8015M	12/12/2013	PH139	4.5	1	PHCC15C20	EFH (C15-C20)	5.2	U	2.1	5.2	mg/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8015M	12/12/2013	PH139	4.5	1	PHCC21C30	EFH (C21-C30)	5.7		2.1	5.2	mg/kg				1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8015M	12/12/2013	PH139	4.5	1	PHCC30C40	EFH (C30-C40)	13		4.2	10	mg/kg				1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8015M	12/12/2013	PH139	4.5	1	PHCC8C11	EFH (C8-C11)	5.2	U	2.1	5.2	mg/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	1024-57-3	HEPTACHLOR EPOXIDE	0.86	U	0.18	0.86	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	1031-07-8	ENDOSULFAN SULFATE	1.8	U	0.34	1.8	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	2385-85-5	MIREX	1.8	U	0.36	1.8	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	309-00-2	ALDRIN	0.86	U	0.18	0.86	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	319-84-6	ALPHA-BHC	0.86	U	0.18	0.86	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	319-85-7	BETA-BHC	2	U	1.0	2.0	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	319-86-8	DELTA-BHC	0.86	U	0.47	0.86	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	33213-65-9	ENDOSULFAN II	1.8	U	0.34	1.8	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	50-29-3	4,4'-DDT	0.43	J	0.36	1.8	ug/kg	J	J	Z	1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	53494-70-5	ENDRIN KETONE	1.9	U	0.62	1.9	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	57-74-9	CHLORDANE	18	U	4.1	18	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	58-89-9	gamma-BHC (Lindane)	0.86	U	0.18	0.86	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	60-57-1	DIELDRIN	1.8	U	0.34	1.8	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	72-20-8	ENDRIN	1.8	U	0.34	1.8	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	72-43-5	Methoxychlor	6.9	U	1.8	6.9	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	72-54-8	4,4'-DDD	1.8	U	0.34	1.8	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	72-55-9	4,4'-DDE	0.63	J	0.34	1.8	ug/kg	J	J	Z	1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	7421-93-4	ENDRIN ALDEHYDE	1.8	U	0.34	1.8	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	76-44-8	HEPTACHLOR	0.86	U	0.18	0.86	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	8001-35-2	Toxaphene	34	U	15	34	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301918	LL	8081B	12/16/2013	PH139	4.5	1	959-98-8	ENDOSULFAN I	0.86	U	0.23	0.86	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	160.3M	12/12/2013	PH139	6.4	1	MOIST	MOISTURE	6.4		0.10	0.10	%				1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8015M	12/16/2013	PH139	6.4	24.18	GROC5C12	GASOLINE RANGE ORGANICS (C5-C12)	0.6	J	0.2	1.0	mg/kg	J	J	Z	1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8015M	12/12/2013	PH139	6.4	1	PHCC12C14	EFH (C12-C14)	5.3	U	2.1	5.3	mg/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8015M	12/12/2013	PH139	6.4	1	PHCC15C20	EFH (C15-C20)	5.3	U	2.1	5.3	mg/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8015M	12/12/2013	PH139	6.4	1	PHCC21C30	EFH (C21-C30)	3.3	J	2.1	5.3	mg/kg	J	J	Z	1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8015M	12/12/2013	PH139	6.4	1	PHCC30C40	EFH (C30-C40)	8.3	J	4.3	11	mg/kg	J	J	Z	1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8015M	12/12/2013	PH139	6.4	1	PHCC8C11	EFH (C8-C11)	5.3	U	2.1	5.3	mg/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	1024-57-3	HEPTACHLOR EPOXIDE	0.88	U	0.18	0.88	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	1031-07-8	ENDOSULFAN SULFATE	1.8	U	0.35	1.8	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	2385-85-5	MIREX	1.8	U	0.37	1.8	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	309-00-2	ALDRIN	0.88	U	0.18	0.88	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	319-84-6	ALPHA-BHC	0.88	U	0.18	0.88	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	319-85-7	BETA-BHC	2	U	1.0	2.0	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	319-86-8	DELTA-BHC	0.88	U	0.48	0.88	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	33213-65-9	ENDOSULFAN II	1.8	U	0.35	1.8	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	50-29-3	4,4'-DDT	1.8	U	0.37	1.8	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	53494-70-5	ENDRIN KETONE	1.9	U	0.64	1.9	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	57-74-9	CHLORDANE	18	U	4.2	18	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	58-89-9	gamma-BHC (Lindane)	0.88	U	0.18	0.88	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	60-57-1	DIELDRIN	1.8	U	0.35	1.8	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	72-20-8	ENDRIN	1.8	U	0.35	1.8	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	72-43-5	Methoxychlor	7.1	U	1.8	7.1	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	72-54-8	4,4'-DDD	1.8	U	0.35	1.8	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	72-55-9	4,4'-DDE	1.8	U	0.35	1.8	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	7421-93-4	ENDRIN ALDEHYDE	1.8	U	0.35	1.8	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	76-44-8	HEPTACHLOR	0.88	U	0.18	0.88	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	8001-35-2	Toxaphene	35	U	15	35	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-507-NBZ-SB-3.5-4.5	12/4/2013	N	3.5	4.5	ft	SO	NBZ_DG		7301919	LL	8081B	12/16/2013	PH139	6.4	1	959-98-8	ENDOSULFAN I	0.88	U	0.23	0.88	ug/kg	U			1781599.726	266360.639	-118.723449	34.229775
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	160.3M	12/12/2013	PH139	9.4	1	MOIST	MOISTURE	9.4		0.10	0.10	%				1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	1613B	12/16/2013	PH139	9.4	1	1746-01-6	2,3,7,8-TCDD	1.1	U	0.0791	1.10	ng/kg	JBQ	U	B	1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	1613B	12/16/2013	PH139	9.4	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	5.51	U	0.0334	5.51	ng/kg	JBQ	U	B	1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	1613B	12/16/2013	PH139	9.4	1	3268-87-9	OCDD	11	U	0.0398	11.0	ng/kg	JB	U	B	1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	1613B	12/16/2013	PH139	9.4	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	5.51	U	0.0333	5.51	ng/kg	JB	U	B	1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	1613B	12/16/2013	PH139	9.4	1	39001-02-0	OCDF	11	U	0.0639	11.0	ng/kg	JB	U	B	1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	1613B	12/16/2013	PH139	9.4	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.51	U	0.0343	5.51	ng/kg	JBQ	U	B	1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	1613B	12/16/2013	PH139	9.4	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	5.51	U	0.0468	5.51	ng/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	1613B	12/16/2013	PH139	9.4	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	1.1	U	0.0868	1.10	ng/kg	JBQ	U	B	1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	1613B	12/16/2013	PH139	9.4	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	5.51	U	0.0241	5.51	ng/kg	JB	U	B	1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	1613B	12/16/2013	PH139	9.4	1	57117-31-4	2,3,4,7,8-PECDF	5.51	U	0.0313	5.51	ng/kg	JBQ	U	B	1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	1613B	12/16/2013	PH139	9.4	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	5.51	U	0.0348	5.51	ng/kg	JB	U	B	1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	1613B	12/16/2013	PH139	9.4	1	57117-44-9	1,2,3,6,7,8-HXCDF	5.51	U	0.0344	5.51	ng/kg	JB	U	B	1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	1613B	12/16/2013	PH139	9.4	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.51	U	0.0359	5.51	ng/kg	JBQ	U	B	1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	1613B	12/16/2013	PH139	9.4	1	60851-34-5	2,3,4,6,7,8-HXCDF	5.51	U	0.0338	5.51	ng/kg	JB	U	B	1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	1613B	12/16/2013	PH139	9.4	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	5.51	U	0.0187	5.51	ng/kg	JB	U	B	1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	1613B	12/16/2013	PH139	9.4	1	70648-26-9	1,2,3,4,7,8-HXCDF	5.51	U	0.0381	5.51	ng/kg	JBQ	U	B	1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	1613B	12/16/2013	PH139	9.4	1	72918-21-9	1,2,3,7,8,9-HXCDF	5.51	U	0.0372	5.51	ng/kg	JBQ	U	B	1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8015M	12/12/2013	PH139	9.4	1	PHCC12C14	EFH (C12-C14)	5.5	U	2.2	5.5	mg/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8015M	12/12/2013	PH139	9.4	1	PHCC15C20	EFH (C15-C20)	5.5	U	2.2	5.5	mg/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8015M	12/12/2013	PH139	9.4	1	PHCC21C30	EFH (C21-C30)	3.2	J	2.2	5.5	mg/kg	J	J	Z	1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8015M	12/12/2013	PH139	9.4	1	PHCC30C40	EFH (C30-C40)	7.9	J	4.4	11	mg/kg	J	J	Z	1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8015M	12/12/2013	PH139	9.4	1	PHCC8C11	EFH (C8-C11)	5.5	U	2.2	5.5	mg/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8081B	12/16/2013	PH139	9.4	1	1024-57-3	HEPTACHLOR EPOXIDE	0.91	U	0.19	0.91	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8081B	12/16/2013	PH139	9.4	1	1031-07-8	ENDOSULFAN SULFATE	1.9	U	0.36	1.9	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8081B	12/16/2013	PH139	9.4	1	2385-85-5	MIREX	1.9	U	0.39	1.9	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8081B	12/16/2013	PH139	9.4	1	309-00-2	ALDRIN	0.91	U	0.19	0.91	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8081B	12/16/2013	PH139	9.4	1	319-84-6	ALPHA-BHC	0.91	U	0.19	0.91	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8081B	12/16/2013	PH139	9.4	1	319-85-7	BETA-BHC	2.1	U	1.1	2.1	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8081B	12/16/2013	PH139	9.4	1	319-86-8	DELTA-BHC	0.91	U	0.50	0.91	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8081B	12/16/2013	PH139	9.4	1	33213-65-9	ENDOSULFAN II	1.9	U	0.36	1.9	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8081B	12/16/2013	PH139	9.4	1	50-29-3	4,4'-DDT	1.9	U	0.39	1.9	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8081B	12/16/2013	PH139	9.4	1	53494-70-5	ENDRIN KETONE	2	U	0.66	2.0	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8081B	12/16/2013	PH139	9.4	1	57-74-9	CHLORDANE	19	U	4.4	19	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8081B	12/16/2013	PH139	9.4	1	58-89-9	gamma-BHC (Lindane)	0.91	U	0.19	0.91	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8081B	12/16/2013	PH139	9.4	1	60-57-1	DIELDRIN	1.9	U	0.36	1.9	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8081B	12/16/2013	PH139	9.4	1	72-20-8	ENDRIN	1.9	U	0.36	1.9	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301920	LL	8081B	12/16/2013	PH139	9.4	1	72-43-5	Methoxychlor	7.4	U	1.9	7.4	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.34	1.7	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	218-01-9	Chrysene	1.7	U	0.34	1.7	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	50-32-8	BENZO(A)PYRENE	1.7	U	0.69	1.7	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.69	1.7	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	56-55-3	BENZO(A)ANTHRACENE	1.7	U	0.69	1.7	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.69	1.7	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	83-32-9	ACENAPHTHENE	1.7	U	0.69	1.7	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	84-66-2	DIETHYL PHTHALATE	19	U	6.2	19	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	84-74-2	Di-n-butylphthalate	19	U	6.2	19	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	85-01-8	PHENANTHRENE	1.7	U	0.69	1.7	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	85-68-7	BENZYL BUTYL PHTHALATE	19	U	6.2	19	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	86-73-7	FLUORENE	1.7	U	0.69	1.7	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	90-12-0	1-METHYLNAPHTHALENE	1.7	U	0.69	1.7	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	91-20-3	NAPHTHALENE	1.4	J	0.69	1.7	ug/kg	J	J	Z	1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	8270D SIM	12/29/2013	PH142	3.1	1	91-57-6	2-METHYLNAPHTHALENE	1.7	U	0.69	1.7	ug/kg	U			1782400.523	267376.869	-118.720824	34.232583
SL-516-NBZ-SB-4.0-5.0	12/9/2013	N	4	5	ft	SO	NBZ_DG		7307345	LL	9045M	12/10/2013	PH142	3.1	1	pH	PH	7.09		0.0100	0.0100	pH unit				1782400.523	267376.869	-118.720824	34.232583
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	160.3M	12/20/2013	PH151	4.5	1	MOIST	MOISTURE	4.5		0.10	0.10	%				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	1613B	12/24/2013	PH151	4.5	1	1746-01-6	2,3,7,8-TCDD	0.0807	J	0.0521	1.05	ng/kg	JQ	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	1613B	12/24/2013	PH151	4.5	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	0.419	J	0.0308	5.24	ng/kg	JB	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	1613B	12/24/2013	PH151	4.5	1	3268-87-9	OCDD	24		0.0218	10.5	ng/kg	B			1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	1613B	12/24/2013	PH151	4.5	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	3.44	J	0.0270	5.24	ng/kg	JB	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	1613B	12/24/2013	PH151	4.5	1	39001-02-0	OCDF	1.79	J	0.0277	10.5	ng/kg	JB	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	1613B	12/24/2013	PH151	4.5	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.24	U	0.0313	5.24	ng/kg	JB	U	B	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	1613B	12/24/2013	PH151	4.5	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	5.24	U	0.0472	5.24	ng/kg	JBQ	U	B	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	1613B	12/24/2013	PH151	4.5	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	0.44	J	0.0652	1.05	ng/kg	JQ	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	1613B	12/24/2013	PH151	4.5	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	5.24	U	0.0315	5.24	ng/kg	JBQ	U	B	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	1613B	12/24/2013	PH151	4.5	1	57117-31-4	2,3,4,7,8-PECDF	0.608	J	0.0296	5.24	ng/kg	JB	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	1613B	12/24/2013	PH151	4.5	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	0.718	J	0.0324	5.24	ng/kg	JB	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	1613B	12/24/2013	PH151	4.5	1	57117-44-9	1,2,3,6,7,8-HXCDF	5.24	U	0.0274	5.24	ng/kg	JBQ	U	B	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	1613B	12/24/2013	PH151	4.5	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	0.394	J	0.0333	5.24	ng/kg	JB	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	1613B	12/24/2013	PH151	4.5	1	60851-34-5	2,3,4,6,7,8-HXCDF	0.272	J	0.0253	5.24	ng/kg	JBQ	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	1613B	12/24/2013	PH151	4.5	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	1.08	J	0.0280	5.24	ng/kg	JB	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	1613B	12/24/2013	PH151	4.5	1	70648-26-9	1,2,3,4,7,8-HXCDF	5.24	U	0.0284	5.24	ng/kg	JB	U	B	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	1613B	12/24/2013	PH151	4.5	1	72918-21-9	1,2,3,7,8,9-HXCDF	5.24	U	0.0280	5.24	ng/kg	JB	U	B	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/27/2013	PH151	4.5	1	7429-90-5	ALUMINUM (FUME OR DUST)	12900		7.47	41.5	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/27/2013	PH151	4.5	1	7439-89-6	IRON	21800		3.75	41.5	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/27/2013	PH151	4.5	1	7439-95-4	MAGNESIUM	4520		1.73	10.4	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7440-70-2	CALCIUM METAL	5940		3.46	20.7	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7439-92-1	LEAD	17.3		0.518	3.11	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7439-93-2	LITHIUM	28.2		0.35	4.1	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7439-96-5	MANGANESE	333		0.0861	1.04	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7439-98-7	MOLYBDENUM	2.07	U	0.176	2.07	mg/kg	J	U	F	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7440-02-0	NICKEL	12.4		0.135	2.07	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7440-09-7	POTASSIUM	3710		8.65	104	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7440-23-5	SODIUM	68.6	J	17.3	104	mg/kg	J	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7440-31-5	TIN	10.4	U	0.228	10.4	mg/kg	J	U	B	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7440-32-6	TITANIUM METAL POWDER	818		0.176	1.04	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7440-36-0	ANTIMONY	1.34	J	0.767	4.15	mg/kg	J	J	Q, Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7440-38-2	ARSENIC	5.14		0.726	4.15	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7440-39-3	BARIUM	89.4		0.0342	1.04	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7440-41-7	BERYLLIUM	0.57	J	0.0695	1.04	mg/kg	J	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7440-42-8	BORON	8.32	J	0.871	10.4	mg/kg	J	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7440-43-9	CADMIUM	1.04	U	0.0788	1.04	mg/kg	U			1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7440-47-3	CHROMIUM	17		0.166	3.11	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7440-48-4	COBALT	6		0.103	1.04	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7440-50-8	COPPER	12.6		0.301	2.07	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7440-62-2	VANADIUM (FUME OR DUST)	33.6		0.135	1.04	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7440-66-6	ZINC	73.8		0.207	4.15	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7440-67-7	ZIRCONIUM	2.09	J	0.871	5.18	mg/kg	J	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6010C	12/26/2013	PH151	4.5	1	7723-14-0	PHOSPHORUS	510	J	3.00	10.4	mg/kg		J	Q	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6020A	1/7/2014	PH151	4.5	5	7440-24-6	STRONTIUM	23.3		0.176	1.04	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6020A	1/4/2014	PH151	4.5	2	7782-49-2	SELENIUM	0.427		0.104	0.415	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6020A	1/4/2014	PH151	4.5	2	7440-22-4	SILVER	0.0674	J	0.0270	0.207	mg/kg	J	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	6020A	1/4/2014	PH151	4.5	2	7440-28-0	THALLIUM	0.307		0.0311	0.207	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	7471B	12/23/2013	PH151	4.5	1	7439-97-6	MERCURY	0.0362		0.0104	0.0174	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8015M	12/19/2013	PH151	4.5	5	PHCC12C14	EFH (C12-C14)	26	U	10	26	mg/kg	U			1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8015M	12/19/2013	PH151	4.5	5	PHCC15C20	EFH (C15-C20)	15	J	10	26	mg/kg	J	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8015M	12/19/2013	PH151	4.5	5	PHCC21C30	EFH (C21-C30)	67		10	26	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8015M	12/19/2013	PH151	4.5	5	PHCC30C40	EFH (C30-C40)	230		21	52	mg/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8015M	12/19/2013	PH151	4.5	5	PHCC8C11	EFH (C8-C11)	26	U	10	26	mg/kg	U			1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	8.4	J	6.3	19	ug/kg	J	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	117-84-0	Di-n-octylphthalate	19	U	6.3	19	ug/kg	U			1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	120-12-7	ANTHRACENE	0.84	J	0.35	1.7	ug/kg	J	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	129-00-0	PYRENE	3.5		0.70	1.7	ug/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	131-11-3	DIMETHYL PHTHALATE	19	U	6.3	19	ug/kg	U			1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	191-24-2	BENZO(G,H,I)PERYLENE	1.3	J	0.70	1.7	ug/kg	J	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	192-97-2	Benzo(e)pyrene	18	U	3.5	18	ug/kg	U			1782314.616	266875.466	-118.721096	34.231204

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	193-39-5	INDENO(1,2,3-CD)PYRENE	0.93	J	0.70	1.7	ug/kg	J	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	205-99-2	BENZO(B)FLUORANTHENE	4		0.70	1.7	ug/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	206-44-0	FLUORANTHENE	4		0.70	1.7	ug/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	207-08-9	BENZO(K)FLUORANTHENE	1.1	J	0.70	1.7	ug/kg	J	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.35	1.7	ug/kg	U			1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	218-01-9	Chrysene	4.1		0.35	1.7	ug/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	50-32-8	BENZO(A)PYRENE	1.3	J	0.70	1.7	ug/kg	J	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.70	1.7	ug/kg	U			1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	56-55-3	BENZO(A)ANTHRACENE	1.4	J	0.70	1.7	ug/kg	J	J	Z	1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.70	1.7	ug/kg	U			1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	83-32-9	ACENAPHTHENE	1.7	U	0.70	1.7	ug/kg	U			1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	84-66-2	DIETHYL PHTHALATE	19	U	6.3	19	ug/kg	U			1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	84-74-2	Di-n-butylphthalate	19	U	6.3	19	ug/kg	U			1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	85-01-8	PHENANTHRENE	6.2		0.70	1.7	ug/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	85-68-7	BENZYL BUTYL PHTHALATE	19	U	6.3	19	ug/kg	U			1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	86-73-7	FLUORENE	1.7	U	0.70	1.7	ug/kg	U			1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	90-12-0	1-METHYLNAPHTHALENE	5.6		0.70	1.7	ug/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	91-20-3	NAPHTHALENE	20		0.70	1.7	ug/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	8270D SIM	1/2/2014	PH151	4.5	1	91-57-6	2-METHYLNAPHTHALENE	7.9		0.70	1.7	ug/kg				1782314.616	266875.466	-118.721096	34.231204
SL-505-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7313727	LL	9045M	12/15/2013	PH151	4.5	1	pH	PH	6.93		0.0100	0.0100	pH unit				1782314.616	266875.466	-118.721096	34.231204
SL-517-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315437	LL	160.3M	12/20/2013	PH155	4.1	1	MOIST	MOISTURE	4.1		0.10	0.10	%				1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315437	LL	1613B	12/25/2013	PH155	4.1	1	1746-01-6	2,3,7,8-TCDD	0.0989	J	0.0432	1.01	ng/kg	JQ	J	Z	1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315437	LL	1613B	12/25/2013	PH155	4.1	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	5.07	U	0.0289	5.07	ng/kg	JB	U	B	1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315437	LL	1613B	12/25/2013	PH155	4.1	1	3268-87-9	OCDD	6.05	J	0.0157	10.1	ng/kg	JB	J	Z	1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315437	LL	1613B	12/25/2013	PH155	4.1	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	0.913	J	0.0244	5.07	ng/kg	JB	J	Z	1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315437	LL	1613B	12/25/2013	PH155	4.1	1	39001-02-0	OCDF	10.1	U	0.0276	10.1	ng/kg	JB	U	B	1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315437	LL	1613B	12/25/2013	PH155	4.1	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.07	U	0.0287	5.07	ng/kg	JBQ	U	B	1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315437	LL	1613B	12/25/2013	PH155	4.1	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	5.07	U	0.0330	5.07	ng/kg	JBQ	U	B	1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315437	LL	1613B	12/25/2013	PH155	4.1	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	0.147	J	0.0398	1.01	ng/kg	J	J	Z	1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315437	LL	1613B	12/25/2013	PH155	4.1	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	5.07	U	0.0190	5.07	ng/kg	JB	U	B	1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315437	LL	1613B	12/25/2013	PH155	4.1	1	57117-31-4	2,3,4,7,8-PECDF	0.369	J	0.0179	5.07	ng/kg	JB	J	Z	1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315437	LL	1613B	12/25/2013	PH155	4.1	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	0.408	J	0.0200	5.07	ng/kg	JB	J	Z	1782162.395	267208.227	-118.721608	34.232115
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8015M	12/18/2013	PH140	3.3	1	PHCC12C14	EFH (C12-C14)	5.2	U	2.1	5.2	mg/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8015M	12/18/2013	PH140	3.3	1	PHCC15C20	EFH (C15-C20)	5.2	U	2.1	5.2	mg/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8015M	12/18/2013	PH140	3.3	1	PHCC21C30	EFH (C21-C30)	8.4		2.1	5.2	mg/kg				1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8015M	12/18/2013	PH140	3.3	1	PHCC30C40	EFH (C30-C40)	14		4.1	10	mg/kg				1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8015M	12/18/2013	PH140	3.3	1	PHCC8C11	EFH (C8-C11)	5.2	U	2.1	5.2	mg/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	1024-57-3	HEPTACHLOR EPOXIDE	0.86	U	0.18	0.86	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	1031-07-8	ENDOSULFAN SULFATE	1.8	U	0.34	1.8	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	2385-85-5	MIREX	1.8	U	0.36	1.8	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	309-00-2	ALDRIN	0.86	U	0.18	0.86	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	319-84-6	ALPHA-BHC	0.86	U	0.18	0.86	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	319-85-7	BETA-BHC	2	U	0.99	2.0	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	319-86-8	DELTA-BHC	0.86	U	0.47	0.86	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	33213-65-9	ENDOSULFAN II	1.8	U	0.34	1.8	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	50-29-3	4,4'-DDT	1.8	U	0.36	1.8	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	53494-70-5	ENDRIN KETONE	1.9	U	0.62	1.9	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	57-74-9	CHLORDANE	18	U	4.1	18	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	58-89-9	gamma-BHC (Lindane)	0.86	U	0.18	0.86	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	60-57-1	DIELDRIN	1.8	U	0.34	1.8	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	72-20-8	ENDRIN	1.8	U	0.34	1.8	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	72-43-5	Methoxychlor	6.9	U	1.8	6.9	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	72-54-8	4,4'-DDD	1.8	U	0.34	1.8	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	72-55-9	4,4'-DDE	1.8	U	0.34	1.8	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	7421-93-4	ENDRIN ALDEHYDE	1.8	U	0.34	1.8	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	76-44-8	HEPTACHLOR	0.86	U	0.18	0.86	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	8001-35-2	Toxaphene	34	U	14	34	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8081B	12/16/2013	PH140	3.3	1	959-98-8	ENDOSULFAN I	0.86	U	0.23	0.86	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8151A	12/16/2013	PH140	3.3	1	120-36-5	DICHLORPROP	17	U	9.2	17	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8151A	12/16/2013	PH140	3.3	1	1918-00-9	DICAMBA	12	U	4.1	12	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8151A	12/16/2013	PH140	3.3	1	75-99-0	2,2-DICHLOROPROPIONIC ACID	92	U	45	92	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8151A	12/16/2013	PH140	3.3	1	88-85-7	DINITROBUTYL PHENOL	24	U	9.2	24	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8151A	12/16/2013	PH140	3.3	1	93-65-2	MCPP	2600	U	770	2600	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8151A	12/16/2013	PH140	3.3	1	93-72-1	2,4,5-TP (Silvex)	1.7	U	0.77	1.7	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8151A	12/16/2013	PH140	3.3	1	93-76-5	2,4,5-T	1.7	U	0.84	1.7	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8151A	12/16/2013	PH140	3.3	1	94-74-6	MCPA (2-METHYL-4-CHLOROPHENOXYACETIC A	2600	U	780	2600	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8151A	12/16/2013	PH140	3.3	1	94-75-7	2,4-D	37	U	12	37	ug/kg	U			1784932.453	267991.125	-118.712462	34.234321
SL-526-NBZ-SB-2.5-3.5	12/5/2013	N	2.5	3.5	ft	SO	NBZ_DG		7306307	LL	8151A	12/16/2013	PH140	3.3	1	94-82-6	2,4-DB	22	J	6.3	17	ug/kg		J	L	1784932.453	267991.125	-118.712462	34.234321
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	160.3M	12/13/2013	PH140	11.1	1	MOIST	MOISTURE	11.1		0.10	0.10	%				1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	1613B	12/17/2013	PH140	11.1	1	1746-01-6	2,3,7,8-TCDD	1.12	U	0.0840	1.12	ng/kg	JBQ	U	B	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	1613B	12/17/2013	PH140	11.1	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	5.61	U	0.0736	5.61	ng/kg	JB	U	B	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	1613B	12/17/2013	PH140	11.1	1	3268-87-9	OCDD	157		0.0517	11.2	ng/kg	B			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	1613B	12/17/2013	PH140	11.1	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	20.1		0.0565	5.61	ng/kg	B			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	1613B	12/17/2013	PH140	11.1	1	39001-02-0	OCDF	5.93	J	0.0661	11.2	ng/kg	JB	J	Z	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	1613B	12/17/2013	PH140	11.1	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.61	U	0.0726	5.61	ng/kg	JB	U	B	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	1613B	12/17/2013	PH140	11.1	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	5.61	U	0.0976	5.61	ng/kg	JBQ	U	B	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	1613B	12/17/2013	PH140	11.1	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	0.347	J	0.0900	1.12	ng/kg	JB	J	Z	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	1613B	12/17/2013	PH140	11.1	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	5.61	U	0.0520	5.61	ng/kg	JB	U	B	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	1613B	12/17/2013	PH140	11.1	1	57117-31-4	2,3,4,7,8-PECDF	5.61	U	0.0435	5.61	ng/kg	JB	U	B	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	1613B	12/17/2013	PH140	11.1	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	5.61	U	0.0456	5.61	ng/kg	JB	U	B	1784103.816	268301.912	-118.715211	34.235158

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	1613B	12/17/2013	PH140	11.1	1	57117-44-9	1,2,3,6,7,8-HXCDF	5.61	U	0.0542	5.61	ng/kg	JB	U	B	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	1613B	12/17/2013	PH140	11.1	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	1.27	J	0.0763	5.61	ng/kg	JB	J	Z	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	1613B	12/17/2013	PH140	11.1	1	60851-34-5	2,3,4,6,7,8-HXCDF	5.61	U	0.0571	5.61	ng/kg	JB	U	B	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	1613B	12/17/2013	PH140	11.1	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	3.33	J	0.0415	5.61	ng/kg	JB	J	Z	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	1613B	12/17/2013	PH140	11.1	1	70648-26-9	1,2,3,4,7,8-HXCDF	5.61	U	0.0594	5.61	ng/kg	JB	U	B	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	1613B	12/17/2013	PH140	11.1	1	72918-21-9	1,2,3,7,8,9-HXCDF	5.61	U	0.0636	5.61	ng/kg	JB	U	B	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	1024-57-3	HEPTACHLOR EPOXIDE	0.93	U	0.19	0.93	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	1031-07-8	ENDOSULFAN SULFATE	1.9	U	0.56	1.9	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	2385-85-5	MIREX	1.9	U	0.39	1.9	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	309-00-2	ALDRIN	0.93	U	0.19	0.93	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	319-84-6	ALPHA-BHC	0.93	U	0.19	0.93	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	319-85-7	BETA-BHC	2.1	U	1.1	2.1	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	319-86-8	DELTA-BHC	0.93	U	0.51	0.93	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	33213-65-9	ENDOSULFAN II	1.9	U	0.37	1.9	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	50-29-3	4,4'-DDT	1	J	0.39	1.9	ug/kg	J	J	Z	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	53494-70-5	ENDRIN KETONE	2	U	0.67	2.0	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	57-74-9	CHLORDANE	19	U	4.5	19	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	58-89-9	gamma-BHC (Lindane)	0.93	U	0.19	0.93	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	60-57-1	DIELDRIN	1.9	U	0.37	1.9	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	72-20-8	ENDRIN	1.9	U	1.1	1.9	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	72-43-5	Methoxychlor	7.5	U	1.9	7.5	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	72-54-8	4,4'-DDD	2	U	2.0	2.0	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	72-55-9	4,4'-DDE	1.1	J	0.37	1.9	ug/kg	J	J	Z	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	7421-93-4	ENDRIN ALDEHYDE	0.98	J	0.37	1.9	ug/kg	J	J	Z	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	76-44-8	HEPTACHLOR	0.93	U	0.19	0.93	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	8001-35-2	Toxaphene	39	U	39	39	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8081B	12/16/2013	PH140	11.1	1	959-98-8	ENDOSULFAN I	0.92	J	0.25	0.93	ug/kg	J	J	Z	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8082A	12/16/2013	PH140	11.1	1	11096-82-5	Aroclor 1260	19	U	4.3	19	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8082A	12/16/2013	PH140	11.1	1	11097-69-1	Aroclor 1254	19	U	4.9	19	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8082A	12/16/2013	PH140	11.1	1	11100-14-4	Aroclor 1268	19	U	3.7	19	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8082A	12/16/2013	PH140	11.1	1	11104-28-2	Aroclor 1221	19	U	5.7	19	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8082A	12/16/2013	PH140	11.1	1	11126-42-4	Aroclor 5460	37	U	11	37	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8082A	12/16/2013	PH140	11.1	1	11141-16-5	Aroclor 1232	19	U	4.6	19	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8082A	12/16/2013	PH140	11.1	1	12642-23-8	Aroclor 5442	37	U	11	37	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8082A	12/16/2013	PH140	11.1	1	12672-29-6	Aroclor 1248	19	U	3.7	19	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8082A	12/16/2013	PH140	11.1	1	12674-11-2	Aroclor 1016	19	U	3.7	19	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8082A	12/16/2013	PH140	11.1	1	37324-23-5	Aroclor 1262	19	U	3.7	19	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8082A	12/16/2013	PH140	11.1	1	53469-21-9	Aroclor 1242	19	U	4.6	19	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8082A	12/16/2013	PH140	11.1	1	63496-31-1	Aroclor 5432	37	U	11	37	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	64	J	33	100	ug/kg	J	J	Z	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	117-84-0	Di-n-octylphthalate	100	U	33	100	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	120-12-7	ANTHRACENE	9.3	U	1.9	9.3	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	129-00-0	PYRENE	6	J	3.7	9.3	ug/kg	J	J	Z	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	131-11-3	DIMETHYL PHTHALATE	100	U	33	100	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	191-24-2	BENZO(G,H,I)PERYLENE	9.3	U	3.7	9.3	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	192-97-2	Benzo(e)pyrene	95	U	19	95	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	193-39-5	INDENO(1,2,3-CD)PYRENE	9.3	U	3.7	9.3	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	205-99-2	BENZO(B)FLUORANTHENE	4.2	J	3.7	9.3	ug/kg	J	J	Z	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	206-44-0	FLUORANTHENE	6.9	J	3.7	9.3	ug/kg	J	J	Z	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	207-08-9	BENZO(K)FLUORANTHENE	9.3	U	3.7	9.3	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	208-96-8	ACENAPHTHYLENE	9.3	U	1.9	9.3	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	218-01-9	Chrysene	5.6	J	1.9	9.3	ug/kg	J	J	Z	1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	50-32-8	BENZO(A)PYRENE	9.3	U	3.7	9.3	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	53-70-3	DIBENZO(A,H)ANTHRACENE	9.3	U	3.7	9.3	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	56-55-3	BENZO(A)ANTHRACENE	9.3	U	3.7	9.3	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	9.3	U	3.7	9.3	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	83-32-9	ACENAPHTHENE	9.3	U	3.7	9.3	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	84-66-2	DIETHYL PHTHALATE	100	U	33	100	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	84-74-2	Di-n-butylphthalate	100	U	33	100	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	85-01-8	PHENANTHRENE	9.6		3.7	9.3	ug/kg				1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	85-68-7	BENZYL BUTYL PHTHALATE	100	U	33	100	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	86-73-7	FLUORENE	9.3	U	3.7	9.3	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	90-12-0	1-METHYLNAPHTHALENE	9.3	U	3.7	9.3	ug/kg	U			1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	91-20-3	NAPHTHALENE	13		3.7	9.3	ug/kg				1784103.816	268301.912	-118.715211	34.235158
SL-527-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306308	LL	8270D SIM	12/29/2013	PH140	11.1	5	91-57-6	2-METHYLNAPHTHALENE	4.7	J	3.7	9.3	ug/kg	J	J	Z	1784103.816	268301.912	-118.715211	34.235158
SL-528-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306309	LL	160.3M	12/13/2013	PH140	5.2	1	MOIST	MOISTURE	5.2		0.10	0.10	%				1783944.091	268700.145	-118.715748	34.23625
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8015M	12/23/2013	PH148	5.5	5	PHCC15C20	EFH (C15-C20)	21	J	11	26	mg/kg	J	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8015M	12/23/2013	PH148	5.5	5	PHCC21C30	EFH (C21-C30)	120		11	26	mg/kg				1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8015M	12/23/2013	PH148	5.5	5	PHCC30C40	EFH (C30-C40)	240		21	53	mg/kg				1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8015M	12/23/2013	PH148	5.5	5	PHCC8C11	EFH (C8-C11)	26	U	11	26	mg/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	1024-57-3	HEPTACHLOR EPOXIDE	0.87	U	0.18	0.87	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	1031-07-8	ENDOSULFAN SULFATE	1.8	U	0.35	1.8	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	2385-85-5	MIREX	1.8	U	0.37	1.8	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	309-00-2	ALDRIN	0.87	U	0.18	0.87	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	319-84-6	ALPHA-BHC	0.87	U	0.18	0.87	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	319-85-7	BETA-BHC	2	U	1.0	2.0	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	319-86-8	DELTA-BHC	0.87	U	0.47	0.87	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	33213-65-9	ENDOSULFAN II	1.8	U	0.35	1.8	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	50-29-3	4,4'-DDT	1.6	J	0.37	1.8	ug/kg	J	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	53494-70-5	ENDRIN KETONE	1.9	U	0.63	1.9	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	57-74-9	CHLORDANE	18	U	4.2	18	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	58-89-9	gamma-BHC (Lindane)	0.87	U	0.18	0.87	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	60-57-1	DIELDRIN	0.43	J	0.35	1.8	ug/kg	J	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	72-20-8	ENDRIN	0.39	J	0.35	1.8	ug/kg	J	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	72-43-5	Methoxychlor	7	U	1.8	7.0	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	72-54-8	4,4'-DDD	1.8	U	0.35	1.8	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	72-55-9	4,4'-DDE	1.5	J	0.35	1.8	ug/kg	J	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	7421-93-4	ENDRIN ALDEHYDE	0.55	J	0.35	1.8	ug/kg	J	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	76-44-8	HEPTACHLOR	0.87	U	0.18	0.87	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	8001-35-2	Toxaphene	35	U	15	35	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8081B	12/19/2013	PH148	5.5	1	959-98-8	ENDOSULFAN I	0.87	U	0.23	0.87	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.2	19	ug/kg	J	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	117-84-0	Di-n-octylphthalate	19	U	6.2	19	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	120-12-7	ANTHRACENE	0.38	J	0.35	1.7	ug/kg	J	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	129-00-0	PYRENE	2.6		0.69	1.7	ug/kg				1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	131-11-3	DIMETHYL PHTHALATE	19	U	6.2	19	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	191-24-2	BENZO(G,H,I)PERYLENE	0.85	J	0.69	1.7	ug/kg	J	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	192-97-2	Benzo(e)pyrene	18	U	3.5	18	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.7	U	0.69	1.7	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	205-99-2	BENZO(B)FLUORANTHENE	2.6		0.69	1.7	ug/kg				1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	206-44-0	FLUORANTHENE	2.8		0.69	1.7	ug/kg				1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	207-08-9	BENZO(K)FLUORANTHENE	0.86	J	0.69	1.7	ug/kg	J	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.35	1.7	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	218-01-9	Chrysene	2.7		0.35	1.7	ug/kg				1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	50-32-8	BENZO(A)PYRENE	1.4	J	0.69	1.7	ug/kg	J	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.69	1.7	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	56-55-3	BENZO(A)ANTHRACENE	0.8	J	0.69	1.7	ug/kg	J	J	Z	1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.69	1.7	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	83-32-9	ACENAPHTHENE	1.7	U	0.69	1.7	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	84-66-2	DIETHYL PHTHALATE	19	U	6.2	19	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	84-74-2	Di-n-butylphthalate	19	U	6.2	19	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	85-01-8	PHENANTHRENE	1.8		0.69	1.7	ug/kg				1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	85-68-7	BENZYL BUTYL PHTHALATE	19	U	6.2	19	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	86-73-7	FLUORENE	1.7	U	0.69	1.7	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	90-12-0	1-METHYLNAPHTHALENE	1.7	U	0.69	1.7	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	91-20-3	NAPHTHALENE	2.3		0.69	1.7	ug/kg				1786091.076	269361.512	-118.708661	34.238109
SL-539-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312460	LL	8270D SIM	12/31/2013	PH148	5.5	1	91-57-6	2-METHYLNAPHTHALENE	1.7	U	0.69	1.7	ug/kg	U			1786091.076	269361.512	-118.708661	34.238109
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	160.3M	12/18/2013	PH148	15.2	1	MOIST	MOISTURE	15.2		0.10	0.10	%				1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	1613B	12/21/2013	PH148	15.2	1	1746-01-6	2,3,7,8-TCDD	1.18	UJ	0.0607	1.18	ng/kg	JBQ	UJ	B, FD	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	1613B	12/21/2013	PH148	15.2	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	0.583	J	0.0900	5.90	ng/kg	JB	J	FD, Z	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	1613B	12/21/2013	PH148	15.2	1	3268-87-9	OCDD	288	J	0.0691	11.8	ng/kg	B	J	FD	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	1613B	12/21/2013	PH148	15.2	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	36.2	J	0.0810	5.90	ng/kg	B	J	FD	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	1613B	12/21/2013	PH148	15.2	1	39001-02-0	OCDF	21.2		0.0592	11.8	ng/kg	B			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	1613B	12/21/2013	PH148	15.2	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	0.35	J	0.0895	5.90	ng/kg	J	J	FD, Z	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	1613B	12/21/2013	PH148	15.2	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	5.9	U	0.0525	5.90	ng/kg	JBQ	U	B	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	1613B	12/21/2013	PH148	15.2	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	1.18	U	0.0889	1.18	ng/kg	JB	U	B	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	1613B	12/21/2013	PH148	15.2	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	0.654	J	0.0782	5.90	ng/kg	JB	J	FD, Z	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	1613B	12/21/2013	PH148	15.2	1	57117-31-4	2,3,4,7,8-PECDF	0.58	J	0.0511	5.90	ng/kg	JB	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	1613B	12/21/2013	PH148	15.2	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	0.785	J	0.0481	5.90	ng/kg	JB	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	1613B	12/21/2013	PH148	15.2	1	57117-44-9	1,2,3,6,7,8-HXCDF	0.49	J	0.0586	5.90	ng/kg	J	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	1613B	12/21/2013	PH148	15.2	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	1.75	J	0.0902	5.90	ng/kg	JB	J	FD, Z	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	1613B	12/21/2013	PH148	15.2	1	60851-34-5	2,3,4,6,7,8-HXCDF	0.575	J	0.0624	5.90	ng/kg	JB	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	1613B	12/21/2013	PH148	15.2	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	8.53	J	0.0479	5.90	ng/kg	B	J	FD	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	1613B	12/21/2013	PH148	15.2	1	70648-26-9	1,2,3,4,7,8-HXCDF	0.337	J	0.0644	5.90	ng/kg	JQ	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	1613B	12/21/2013	PH148	15.2	1	72918-21-9	1,2,3,7,8,9-HXCDF	5.9	U	0.0751	5.90	ng/kg	JBQ	U	B	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	1024-57-3	HEPTACHLOR EPOXIDE	0.97	U	0.20	0.97	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	1031-07-8	ENDOSULFAN SULFATE	2	U	0.39	2.0	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	2385-85-5	MIREX	2	U	0.41	2.0	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	309-00-2	ALDRIN	0.97	U	0.20	0.97	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	319-84-6	ALPHA-BHC	0.97	U	0.20	0.97	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	319-85-7	BETA-BHC	2.2	U	1.1	2.2	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	319-86-8	DELTA-BHC	0.97	U	0.53	0.97	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	33213-65-9	ENDOSULFAN II	2	U	0.39	2.0	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	50-29-3	4,4'-DDT	2		0.41	2.0	ug/kg				1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	53494-70-5	ENDRIN KETONE	2.1	U	0.70	2.1	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	57-74-9	CHLORDANE	20	U	4.7	20	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	58-89-9	gamma-BHC (Lindane)	0.97	U	0.40	0.97	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	60-57-1	DIELDRIN	0.56	J	0.39	2.0	ug/kg	J	J	FD, Z	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	72-20-8	ENDRIN	0.46	J	0.39	2.0	ug/kg	J	J	FD, Z	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	72-43-5	Methoxychlor	7.8	U	2.0	7.8	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	72-54-8	4,4'-DDD	2	U	0.39	2.0	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	72-55-9	4,4'-DDE	2	U	1.9	2.0	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	7421-93-4	ENDRIN ALDEHYDE	2	U	0.68	2.0	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	76-44-8	HEPTACHLOR	0.54	J	0.20	0.97	ug/kg	J	J	FD, Z	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	8001-35-2	Toxaphene	39	U	16	39	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8081B	12/19/2013	PH148	15.2	1	959-98-8	ENDOSULFAN I	0.97	U	0.26	0.97	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8151A	12/19/2013	PH148	15.2	1	120-36-5	DICHLORPROP	20	U	11	20	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8151A	12/19/2013	PH148	15.2	1	1918-00-9	DICAMBA	14	U	4.7	14	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8151A	12/19/2013	PH148	15.2	1	75-99-0	2,2-DICHLOROPROPIONIC ACID	110	U	52	110	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8151A	12/19/2013	PH148	15.2	1	88-85-7	DINITROBUTYL PHENOL	28	U	11	28	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8151A	12/19/2013	PH148	15.2	1	93-65-2	MCPP	2900	U	880	2900	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8151A	12/19/2013	PH148	15.2	1	93-72-1	2,4,5-TP (Silvex)	0.98	J	0.88	2.0	ug/kg	J	J	FD, Z	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8151A	12/19/2013	PH148	15.2	1	93-76-5	2,4,5-T	2	UJ	0.97	2.0	ug/kg	U	UJ	FD	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8151A	12/19/2013	PH148	15.2	1	94-74-6	MCPA (2-METHYL-4-CHLOROPHENOXYACETIC A	2900	U	900	2900	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8151A	12/19/2013	PH148	15.2	1	94-75-7	2,4-D	42	U	14	42	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8151A	12/19/2013	PH148	15.2	1	94-82-6	2,4-DB	20	U	15	20	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	15	J	7.1	21	ug/kg	J	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	117-84-0	Di-n-octylphthalate	21	U	7.1	21	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	120-12-7	ANTHRACENE	0.53	J	0.39	2.0	ug/kg	J	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	129-00-0	PYRENE	3.2		0.79	2.0	ug/kg				1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	131-11-3	DIMETHYL PHTHALATE	21	U	7.1	21	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	191-24-2	BENZO(G,H,I)PERYLENE	1.1	J	0.79	2.0	ug/kg	J	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	192-97-2	Benzo(e)pyrene	20	U	3.9	20	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	193-39-5	INDENO(1,2,3-CD)PYRENE	2	UJ	0.79	2.0	ug/kg	U	UJ	FD	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	205-99-2	BENZO(B)FLUORANTHENE	3.7		0.79	2.0	ug/kg				1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	206-44-0	FLUORANTHENE	2.9		0.79	2.0	ug/kg				1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	207-08-9	BENZO(K)FLUORANTHENE	1.2	J	0.79	2.0	ug/kg	J	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	208-96-8	ACENAPHTHYLENE	2	U	0.39	2.0	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	218-01-9	Chrysene	3.5		0.39	2.0	ug/kg				1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	50-32-8	BENZO(A)PYRENE	1.5	J	0.79	2.0	ug/kg	J	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	53-70-3	DIBENZO(A,H)ANTHRACENE	2	U	0.79	2.0	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	56-55-3	BENZO(A)ANTHRACENE	1.2	J	0.79	2.0	ug/kg	J	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	2	U	0.79	2.0	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	83-32-9	ACENAPHTHENE	2	U	0.79	2.0	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	84-66-2	DIETHYL PHTHALATE	21	U	7.1	21	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	84-74-2	Di-n-butylphthalate	21	U	7.1	21	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	85-01-8	PHENANTHRENE	2.9		0.79	2.0	ug/kg				1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	85-68-7	BENZYL BUTYL PHTHALATE	21	U	7.1	21	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-540-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312454	LL	8270D SIM	12/29/2013	PH148	15.2	1	86-73-7	FLUORENE	2	UJ	0.79	2.0	ug/kg	U	UJ	FD	1786657.311	270658.372	-118.706817	34.241683
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6020A	1/4/2014	PH155	1.5	2	7440-28-0	THALLIUM	0.231		0.0299	0.199	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	6020A	1/4/2014	PH155	1.5	2	7782-49-2	SELENIUM	0.153	J	0.0995	0.398	mg/kg	J	J	Z	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	7471B	12/23/2013	PH155	1.5	1	7439-97-6	MERCURY	0.0168	U	0.0101	0.0168	mg/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8015M	12/23/2013	PH155	1.5	1	PHCC12C14	EFH (C12-C14)	5	U	2.0	5.0	mg/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8015M	12/23/2013	PH155	1.5	1	PHCC15C20	EFH (C15-C20)	2.1	J	2.0	5.0	mg/kg	J	J	Z	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8015M	12/23/2013	PH155	1.5	1	PHCC21C30	EFH (C21-C30)	11		2.0	5.0	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8015M	12/23/2013	PH155	1.5	1	PHCC30C40	EFH (C30-C40)	23		4.0	10	mg/kg				1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8015M	12/23/2013	PH155	1.5	1	PHCC8C11	EFH (C8-C11)	5	U	2.0	5.0	mg/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	18	U	6.0	18	ug/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	117-84-0	Di-n-octylphthalate	18	U	6.0	18	ug/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	120-12-7	ANTHRACENE	1.7	U	0.33	1.7	ug/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	129-00-0	PYRENE	1.3	J	0.67	1.7	ug/kg	J	J	Z	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	131-11-3	DIMETHYL PHTHALATE	18	U	6.0	18	ug/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	191-24-2	BENZO(G,H,I)PERYLENE	1.7	U	0.67	1.7	ug/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	192-97-2	Benzo(e)pyrene	17	U	3.3	17	ug/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.7	U	0.67	1.7	ug/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	205-99-2	BENZO(B)FLUORANTHENE	1.5	J	0.67	1.7	ug/kg	J	J	Z	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	206-44-0	FLUORANTHENE	1.3	J	0.67	1.7	ug/kg	J	J	Z	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	207-08-9	BENZO(K)FLUORANTHENE	1.7	U	0.67	1.7	ug/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.33	1.7	ug/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	218-01-9	Chrysene	1.3	J	0.33	1.7	ug/kg	J	J	Z	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	50-32-8	BENZO(A)PYRENE	0.68	J	0.67	1.7	ug/kg	J	J	Z	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.67	1.7	ug/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	56-55-3	BENZO(A)ANTHRACENE	1.7	U	0.67	1.7	ug/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.67	1.7	ug/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	83-32-9	ACENAPHTHENE	1.7	U	0.67	1.7	ug/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	84-66-2	DIETHYL PHTHALATE	18	U	6.0	18	ug/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	84-74-2	Di-n-butylphthalate	18	U	6.0	18	ug/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	85-01-8	PHENANTHRENE	0.95	J	0.67	1.7	ug/kg	J	J	Z	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	85-68-7	BENZYL BUTYL PHTHALATE	18	U	6.0	18	ug/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	86-73-7	FLUORENE	1.7	U	0.67	1.7	ug/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	90-12-0	1-METHYLNAPHTHALENE	1.7	U	0.67	1.7	ug/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	91-20-3	NAPHTHALENE	1.3	J	0.67	1.7	ug/kg	J	J	Z	1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	8270D SIM	1/2/2014	PH155	1.5	1	91-57-6	2-METHYLNAPHTHALENE	1.7	U	0.67	1.7	ug/kg	U			1781522.144	267493.086	-118.723733	34.232885
SL-520-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315441	LL	9045M	12/17/2013	PH155	1.5	1	pH	PH	7.17		0.0100	0.0100	pH unit				1781522.144	267493.086	-118.723733	34.232885
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	160.3M	12/11/2013	PH138	1.9	1	MOIST	MOISTURE	1.9		0.10	0.10	%				1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8015M	12/12/2013	PH138	1.9	1	PHCC12C14	EFH (C12-C14)	5.1	U	2.0	5.1	mg/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8015M	12/12/2013	PH138	1.9	1	PHCC15C20	EFH (C15-C20)	5.1	U	2.0	5.1	mg/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8015M	12/12/2013	PH138	1.9	1	PHCC21C30	EFH (C21-C30)	5.1	U	2.0	5.1	mg/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8015M	12/12/2013	PH138	1.9	1	PHCC30C40	EFH (C30-C40)	10	U	4.1	10	mg/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8015M	12/12/2013	PH138	1.9	1	PHCC8C11	EFH (C8-C11)	5.1	U	2.0	5.1	mg/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	1024-57-3	HEPTACHLOR EPOXIDE	0.83	U	0.17	0.83	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	1031-07-8	ENDOSULFAN SULFATE	1.7	U	0.33	1.7	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	2385-85-5	MIREX	1.7	U	0.35	1.7	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	309-00-2	ALDRIN	0.83	U	0.17	0.83	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	319-84-6	ALPHA-BHC	0.83	U	0.17	0.83	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	319-85-7	BETA-BHC	1.9	U	0.97	1.9	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	319-86-8	DELTA-BHC	0.83	U	0.45	0.83	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	33213-65-9	ENDOSULFAN II	1.7	U	0.33	1.7	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	50-29-3	4,4'-DDT	1.7	U	0.94	1.7	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	53494-70-5	ENDRIN KETONE	1.8	U	0.60	1.8	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	57-74-9	CHLORDANE	17	U	4.0	17	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	58-89-9	gamma-BHC (Lindane)	0.83	U	0.17	0.83	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	60-57-1	DIELDRIN	1.7	U	0.33	1.7	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	72-20-8	ENDRIN	1.7	U	0.33	1.7	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	72-43-5	Methoxychlor	6.7	U	1.7	6.7	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	72-54-8	4,4'-DDD	1.7	U	0.33	1.7	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	72-55-9	4,4'-DDE	1.7	U	0.33	1.7	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	7421-93-4	ENDRIN ALDEHYDE	1.7	U	0.33	1.7	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	76-44-8	HEPTACHLOR	0.83	U	0.17	0.83	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	8001-35-2	Toxaphene	33	U	14	33	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-804-NBZ-SB-0.0-0.5	12/3/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-504-NBZ-SB-0.0-0.5	7300101	LL	8081B	12/16/2013	PH138	1.9	1	959-98-8	ENDOSULFAN I	0.83	U	0.22	0.83	ug/kg	U			1782182.93	266351.696	-118.721519	34.229762
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	160.3M	12/11/2013	PH138	5.4	1	MOIST	MOISTURE	5.4		0.10	0.10	%				1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	1613B	12/14/2013	PH138	5.4	1	1746-01-6	2,3,7,8-TCDD	1.03	U	0.0508	1.03	ng/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	1613B	12/14/2013	PH138	5.4	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	5.17	U	0.0242	5.17	ng/kg	JBQ	U	B	1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	1613B	12/14/2013	PH138	5.4	1	3268-87-9	OCDD	10.3	UJ	0.0316	10.3	ng/kg	JBQ	UJ	B, FD	1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	1613B	12/14/2013	PH138	5.4	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	5.17	UJ	0.0319	5.17	ng/kg	JBQ	UJ	B, FD	1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	1613B	12/14/2013	PH138	5.4	1	39001-02-0	OCDF	10.3	U	0.0334	10.3	ng/kg	JBQ	U	B	1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	1613B	12/14/2013	PH138	5.4	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.17	UJ	0.0248	5.17	ng/kg	JBQ	UJ	B, FD	1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	1613B	12/14/2013	PH138	5.4	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	0.107	J	0.0340	5.17	ng/kg	JQ	J	FD, Z	1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	1613B	12/14/2013	PH138	5.4	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	1.03	U	0.0393	1.03	ng/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	1613B	12/14/2013	PH138	5.4	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	5.17	UJ	0.0195	5.17	ng/kg	JBQ	UJ	B, FD	1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	1613B	12/14/2013	PH138	5.4	1	57117-31-4	2,3,4,7,8-PECDF	5.17	U	0.0186	5.17	ng/kg	JBQ	U	B	1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	1613B	12/14/2013	PH138	5.4	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	5.17	U	0.0190	5.17	ng/kg	JBQ	U	B	1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	1613B	12/14/2013	PH138	5.4	1	57117-44-9	1,2,3,6,7,8-HXCDF	5.17	UJ	0.0205	5.17	ng/kg	JB	UJ	B, FD	1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	1613B	12/14/2013	PH138	5.4	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.17	UJ	0.0260	5.17	ng/kg	JBQ	UJ	B, FD	1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	1613B	12/14/2013	PH138	5.4	1	60851-34-5	2,3,4,6,7,8-HXCDF	5.17	UJ	0.0205	5.17	ng/kg	JB	UJ	B, FD	1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	1613B	12/14/2013	PH138	5.4	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	5.17	UJ	0.0140	5.17	ng/kg	JBQ	UJ	B, FD	1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	1613B	12/14/2013	PH138	5.4	1	70648-26-9	1,2,3,4,7,8-HXCDF	5.17	U	0.0223	5.17	ng/kg	JB	U	B	1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	1613B	12/14/2013	PH138	5.4	1	72918-21-9	1,2,3,7,8,9-HXCDF	5.17	UJ	0.0240	5.17	ng/kg	JBQ	UJ	B, FD	1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8015M	12/12/2013	PH138	5.4	1	PHCC12C14	EFH (C12-C14)	5.3	U	2.1	5.3	mg/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8015M	12/12/2013	PH138	5.4	1	PHCC15C20	EFH (C15-C20)	5.3	U	2.1	5.3	mg/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8015M	12/12/2013	PH138	5.4	1	PHCC21C30	EFH (C21-C30)	5.3	U	2.1	5.3	mg/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8015M	12/12/2013	PH138	5.4	1	PHCC30C40	EFH (C30-C40)	11	U	4.2	11	mg/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8015M	12/12/2013	PH138	5.4	1	PHCC8C11	EFH (C8-C11)	5.3	U	2.1	5.3	mg/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8015M	12/6/2013	PH138	5.4	25	GROC5C12	GASOLINE RANGE ORGANICS (C5-C12)	1.1	U	0.2	1.1	mg/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	1024-57-3	HEPTACHLOR EPOXIDE	0.88	U	0.18	0.88	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	1031-07-8	ENDOSULFAN SULFATE	1.8	U	0.35	1.8	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	2385-85-5	MIREX	1.8	U	0.37	1.8	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	309-00-2	ALDRIN	0.88	U	0.18	0.88	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	319-84-6	ALPHA-BHC	0.88	U	0.18	0.88	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	319-85-7	BETA-BHC	2	U	1.0	2.0	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	319-86-8	DELTA-BHC	0.88	U	0.48	0.88	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	33213-65-9	ENDOSULFAN II	1.8	U	0.35	1.8	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	50-29-3	4,4'-DDT	1.8	U	0.37	1.8	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	53494-70-5	ENDRIN KETONE	1.9	U	0.63	1.9	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	57-74-9	CHLORDANE	18	U	4.2	18	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	58-89-9	gamma-BHC (Lindane)	0.88	U	0.18	0.88	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	60-57-1	DIELDRIN	1.8	U	0.35	1.8	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	72-20-8	ENDRIN	1.8	U	0.35	1.8	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	72-43-5	Methoxychlor	7.1	U	1.8	7.1	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	72-54-8	4,4'-DDD	1.8	U	0.35	1.8	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	72-55-9	4,4'-DDE	1.8	U	0.35	1.8	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	7421-93-4	ENDRIN ALDEHYDE	1.8	U	0.35	1.8	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	76-44-8	HEPTACHLOR	0.88	U	0.18	0.88	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	8001-35-2	Toxaphene	35	U	15	35	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8081B	12/16/2013	PH138	5.4	1	959-98-8	ENDOSULFAN I	0.88	U	0.23	0.88	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8082A	12/11/2013	PH138	5.4	1	11096-82-5	Aroclor 1260	18	U	4.1	18	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8082A	12/11/2013	PH138	5.4	1	11097-69-1	Aroclor 1254	18	U	4.7	18	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8082A	12/11/2013	PH138	5.4	1	11100-14-4	Aroclor 1268	18	U	3.5	18	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8082A	12/11/2013	PH138	5.4	1	11104-28-2	Aroclor 1221	18	U	5.4	18	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8082A	12/11/2013	PH138	5.4	1	11126-42-4	Aroclor 5460	35	U	11	35	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-809-NBZ-SB-2.5-3.5	12/3/2013	FD	2.5	3.5	ft	SO	NBZ_DG	SL-509-NBZ-SB-2.5-3.5	7300112	LL	8082A	12/11/2013	PH138	5.4	1	11141-16-5	Aroclor 1232	18	U	4.3	18	ug/kg	U			1781974.74	266794.341	-118.722219	34.230974
SL-508-NBZ-SB-4.0-5.0	12/4/2013	N	4	5	ft	SO	NBZ_DG		7301921	LL	8270D SIM	12/24/2013	PH139	10	1	83-32-9	ACENAPHTHENE	1.9	U	0.74	1.9	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-4.0-5.0	12/4/2013	N	4	5	ft	SO	NBZ_DG		7301921	LL	8270D SIM	12/24/2013	PH139	10	1	84-66-2	DIETHYL PHTHALATE	20	U	6.7	20	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-4.0-5.0	12/4/2013	N	4	5	ft	SO	NBZ_DG		7301921	LL	8270D SIM	12/24/2013	PH139	10	1	84-74-2	Di-n-butylphthalate	20	U	6.7	20	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-4.0-5.0	12/4/2013	N	4	5	ft	SO	NBZ_DG		7301921	LL	8270D SIM	12/24/2013	PH139	10	1	85-01-8	PHENANTHRENE	1.9	U	0.74	1.9	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-4.0-5.0	12/4/2013	N	4	5	ft	SO	NBZ_DG		7301921	LL	8270D SIM	12/24/2013	PH139	10	1	85-68-7	BENZYL BUTYL PHTHALATE	20	U	6.7	20	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-4.0-5.0	12/4/2013	N	4	5	ft	SO	NBZ_DG		7301921	LL	8270D SIM	12/24/2013	PH139	10	1	86-73-7	FLUORENE	1.9	U	0.74	1.9	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-4.0-5.0	12/4/2013	N	4	5	ft	SO	NBZ_DG		7301921	LL	8270D SIM	12/24/2013	PH139	10	1	90-12-0	1-METHYLNAPHTHALENE	1.9	U	0.74	1.9	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-4.0-5.0	12/4/2013	N	4	5	ft	SO	NBZ_DG		7301921	LL	8270D SIM	12/24/2013	PH139	10	1	91-20-3	NAPHTHALENE	1.9	U	0.74	1.9	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-4.0-5.0	12/4/2013	N	4	5	ft	SO	NBZ_DG		7301921	LL	8270D SIM	12/24/2013	PH139	10	1	91-57-6	2-METHYLNAPHTHALENE	1.9	U	0.74	1.9	ug/kg	U			1781543.515	267025.926	-118.723651	34.231602
SL-508-NBZ-SB-4.0-5.0	12/4/2013	N	4	5	ft	SO	NBZ_DG		7301921	LL	9045M	12/5/2013	PH139	10	1	pH	PH	7.06		0.0100	0.0100	pH unit				1781543.515	267025.926	-118.723651	34.231602
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	160.3M	12/12/2013	PH139	4.2	1	MOIST	MOISTURE	4.2		0.10	0.10	%				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	1613B	12/17/2013	PH139	4.2	1	1746-01-6	2,3,7,8-TCDD	1	U	0.0500	1.00	ng/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	1613B	12/17/2013	PH139	4.2	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	5.01	U	0.0446	5.01	ng/kg	JBQ	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	1613B	12/17/2013	PH139	4.2	1	3268-87-9	OCDD	12.4		0.0410	10.0	ng/kg	B			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	1613B	12/17/2013	PH139	4.2	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	2.23	J	0.0357	5.01	ng/kg	JB	J	Z	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	1613B	12/17/2013	PH139	4.2	1	39001-02-0	OCDF	10	U	0.0494	10.0	ng/kg	JBQ	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	1613B	12/17/2013	PH139	4.2	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.01	U	0.0

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	1613B	12/17/2013	PH139	4.2	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	1	U	0.0747	1.00	ng/kg	JBQ	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	1613B	12/17/2013	PH139	4.2	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	5.01	U	0.0307	5.01	ng/kg	JBQ	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	1613B	12/17/2013	PH139	4.2	1	57117-31-4	2,3,4,7,8-PECDF	5.01	U	0.0319	5.01	ng/kg	JB	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	1613B	12/17/2013	PH139	4.2	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	5.01	U	0.0331	5.01	ng/kg	JBQ	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	1613B	12/17/2013	PH139	4.2	1	57117-44-9	1,2,3,6,7,8-HXCDF	5.01	U	0.0407	5.01	ng/kg	JB	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	1613B	12/17/2013	PH139	4.2	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.01	U	0.0497	5.01	ng/kg	JB	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	1613B	12/17/2013	PH139	4.2	1	60851-34-5	2,3,4,6,7,8-HXCDF	5.01	U	0.0424	5.01	ng/kg	JB	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	1613B	12/17/2013	PH139	4.2	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	5.01	U	0.0241	5.01	ng/kg	JB	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	1613B	12/17/2013	PH139	4.2	1	70648-26-9	1,2,3,4,7,8-HXCDF	5.01	U	0.0438	5.01	ng/kg	JB	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	1613B	12/17/2013	PH139	4.2	1	72918-21-9	1,2,3,7,8,9-HXCDF	5.01	U	0.0455	5.01	ng/kg	JBQ	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	2	7439-89-6	IRON	29000		7.56	83.5	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7429-90-5	ALUMINUM (FUME OR DUST)	21300		7.53	41.8	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7439-92-1	LEAD	19.7		0.522	3.13	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7439-93-2	LITHIUM	43.2		0.35	4.2	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7439-95-4	MAGNESIUM	5580		1.74	10.4	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7439-96-5	MANGANESE	496		0.0866	1.04	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7439-98-7	MOLYBDENUM	2.09	U	0.177	2.09	mg/kg	J	U	F, B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7440-02-0	NICKEL	17.1		0.136	2.09	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7440-09-7	POTASSIUM	5660		8.71	104	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7440-23-5	SODIUM	99.6	J	17.4	104	mg/kg	J	J	Z	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7440-31-5	TIN	10.4	U	0.230	10.4	mg/kg	J	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7440-32-6	TITANIUM METAL POWDER	1340		0.177	1.04	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7440-36-0	ANTIMONY	4.18	UJ	0.772	4.18	mg/kg	U	UJ	Q	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7440-38-2	ARSENIC	6.05		0.731	4.18	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7440-39-3	BARIUM	129		0.0344	1.04	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7440-41-7	BERYLLIUM	0.95	J	0.0699	1.04	mg/kg	J	J	Z	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7440-42-8	BORON	10.4	U	0.877	10.4	mg/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7440-43-9	CADMIUM	0.489	J	0.0793	1.04	mg/kg	J	J	Z	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7440-47-3	CHROMIUM	21.5		0.167	3.13	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7440-48-4	COBALT	8.18		0.103	1.04	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7440-50-8	COPPER	7.76		0.303	2.09	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7440-62-2	VANADIUM (FUME OR DUST)	43.3		0.136	1.04	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7440-66-6	ZINC	84.5		0.209	4.18	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7440-67-7	ZIRCONIUM	2.33	J	0.877	5.22	mg/kg	J	J	Z	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7440-70-2	CALCIUM METAL	4400		3.49	20.9	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6010C	12/16/2013	PH139	4.2	1	7723-14-0	PHOSPHORUS	557		3.02	10.4	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6020A	12/17/2013	PH139	4.2	2	7782-49-2	SELENIUM	0.402	J	0.104	0.418	mg/kg	J	J	Z	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6020A	12/17/2013	PH139	4.2	2	7440-22-4	SILVER	0.0824	J	0.0271	0.209	mg/kg	J	J	Z	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6020A	12/17/2013	PH139	4.2	2	7440-24-6	STRONTIUM	31	J	0.0710	0.418	mg/kg		J	Q	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	6020A	12/17/2013	PH139	4.2	2	7440-28-0	THALLIUM	0.369		0.0313	0.209	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	7471B	12/17/2013	PH139	4.2	1	7439-97-6	MERCURY	0.0195		0.0099	0.0165	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8015M	12/13/2013	PH139	4.2	1	PHCC12C14	EFH (C12-C14)	5.2	U	2.1	5.2	mg/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8015M	12/13/2013	PH139	4.2	1	PHCC15C20	EFH (C15-C20)	5.9		2.1	5.2	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8015M	12/13/2013	PH139	4.2	1	PHCC21C30	EFH (C21-C30)	23		2.1	5.2	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8015M	12/13/2013	PH139	4.2	1	PHCC30C40	EFH (C30-C40)	59		4.2	10	mg/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8015M	12/13/2013	PH139	4.2	1	PHCC8C11	EFH (C8-C11)	5.2	U	2.1	5.2	mg/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	19	U	6.3	19	ug/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	117-84-0	Di-n-octylphthalate	19	U	6.3	19	ug/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	120-12-7	ANTHRACENE	1.7	U	0.35	1.7	ug/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	129-00-0	PYRENE	1.4	J	0.70	1.7	ug/kg	J	J	L, Z	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	131-11-3	DIMETHYL PHTHALATE	19	U	6.3	19	ug/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	191-24-2	BENZO(G,H,I)PERYLENE	1.7	U	0.70	1.7	ug/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	192-97-2	Benzo(e)pyrene	18	U	3.5	18	ug/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	193-39-5	INDENO(1,2,3-CD)PYRENE	0.7	J	0.70	1.7	ug/kg	J	J	Z	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	205-99-2	BENZO(B)FLUORANTHENE	2.3		0.70	1.7	ug/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	206-44-0	FLUORANTHENE	1.4	J	0.70	1.7	ug/kg	J	J	Z	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	207-08-9	BENZO(K)FLUORANTHENE	0.71	J	0.70	1.7	ug/kg	J	J	Z	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.35	1.7	ug/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	218-01-9	Chrysene	2.7		0.35	1.7	ug/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	50-32-8	BENZO(A)PYRENE	1.7	U	0.70	1.7	ug/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.70	1.7	ug/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	56-55-3	BENZO(A)ANTHRACENE	1.7	U	0.70	1.7	ug/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.70	1.7	ug/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	83-32-9	ACENAPHTHENE	1.7	U	0.70	1.7	ug/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	84-66-2	DIETHYL PHTHALATE	19	U	6.3	19	ug/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	84-74-2	Di-n-butylphthalate	19	U	6.3	19	ug/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	85-01-8	PHENANTHRENE	1.4	J	0.70	1.7	ug/kg	J	J	Z	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	85-68-7	BENZYL BUTYL PHTHALATE	19	U	6.3	19	ug/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	86-73-7	FLUORENE	1.7	U	0.70	1.7	ug/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	90-12-0	1-METHYLNAPHTHALENE	1.1	J	0.70	1.7	ug/kg	J	J	Z	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	91-20-3	NAPHTHALENE	2.6		0.70	1.7	ug/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	8270D SIM	12/24/2013	PH139	4.2	1	91-57-6	2-METHYLNAPHTHALENE	1.9		0.70	1.7	ug/kg				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301931	LL	9045M	12/5/2013	PH139	4.2	1	pH	PH	6.53		0.0100	0.0100	pH unit				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-2.5-3.5	12/4/2013	N	2.5	3.5	ft	SO	NBZ_DG		7301932	LL	160.3M	12/12/2013	PH139	5.1	1	MOIST	MOISTURE	5.1		0.10	0.10	%				1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-2.5-3.5	12/4/2013	N	2.5	3.5	ft	SO	NBZ_DG		7301932	LL	1613B	12/17/2013	PH139	5.1	1	1746-01-6	2,3,7,8-TCDD	1.01	U	0.0565	1.01	ng/kg	U			1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-2.5-3.5	12/4/2013	N	2.5	3.5	ft	SO	NBZ_DG		7301932	LL	1613B	12/17/2013	PH139	5.1	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	5.07	U	0.0271	5.07	ng/kg	JB	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-2.5-3.5	12/4/2013	N	2.5	3.5	ft	SO	NBZ_DG		7301932	LL	1613B	12/17/2013	PH139	5.1	1	3268-87-9	OCDD	10.1	U	0.0377	10.1	ng/kg	JB	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-2.5-3.5	12/4/2013	N	2.5	3.5	ft	SO	NBZ_DG		7301932	LL	1613B	12/17/2013	PH139	5.1	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	5.07	U	0.0275	5.07	ng/kg	JB	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-2.5-3.5	12/4/2013	N	2.5	3.5	ft	SO	NBZ_DG		7301932	LL	1613B	12/17/2013	PH139	5.1	1	39001-02-0	OCDF	10.1	U	0.0458	10.1	ng/kg	JBQ	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-2.5-3.5	12/4/2013	N	2.5	3.5	ft	SO	NBZ_DG		7301932	LL	1613B	12/17/2013	PH139	5.1	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.07	U	0.0270	5.07	ng/kg	JBQ	U	B	1782865.109	266774.402	-118.719273	34.230937

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-511-NBZ-SB-2.5-3.5	12/4/2013	N	2.5	3.5	ft	SO	NBZ_DG		7301932	LL	1613B	12/17/2013	PH139	5.1	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	5.07	U	0.0355	5.07	ng/kg	JBQ	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-2.5-3.5	12/4/2013	N	2.5	3.5	ft	SO	NBZ_DG		7301932	LL	1613B	12/17/2013	PH139	5.1	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	1.01	U	0.0573	1.01	ng/kg	JBQ	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-2.5-3.5	12/4/2013	N	2.5	3.5	ft	SO	NBZ_DG		7301932	LL	1613B	12/17/2013	PH139	5.1	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	5.07	U	0.0173	5.07	ng/kg	JBQ	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-2.5-3.5	12/4/2013	N	2.5	3.5	ft	SO	NBZ_DG		7301932	LL	1613B	12/17/2013	PH139	5.1	1	57117-31-4	2,3,4,7,8-PECDF	5.07	U	0.0251	5.07	ng/kg	JBQ	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-2.5-3.5	12/4/2013	N	2.5	3.5	ft	SO	NBZ_DG		7301932	LL	1613B	12/17/2013	PH139	5.1	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	5.07	U	0.0272	5.07	ng/kg	JB	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-2.5-3.5	12/4/2013	N	2.5	3.5	ft	SO	NBZ_DG		7301932	LL	1613B	12/17/2013	PH139	5.1	1	57117-44-9	1,2,3,6,7,8-HXCDF	5.07	U	0.0233	5.07	ng/kg	JB	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-2.5-3.5	12/4/2013	N	2.5	3.5	ft	SO	NBZ_DG		7301932	LL	1613B	12/17/2013	PH139	5.1	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	5.07	U	0.0280	5.07	ng/kg	JBQ	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-2.5-3.5	12/4/2013	N	2.5	3.5	ft	SO	NBZ_DG		7301932	LL	1613B	12/17/2013	PH139	5.1	1	60851-34-5	2,3,4,6,7,8-HXCDF	5.07	U	0.0228	5.07	ng/kg	JBQ	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-2.5-3.5	12/4/2013	N	2.5	3.5	ft	SO	NBZ_DG		7301932	LL	1613B	12/17/2013	PH139	5.1	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	5.07	U	0.0129	5.07	ng/kg	JB	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-2.5-3.5	12/4/2013	N	2.5	3.5	ft	SO	NBZ_DG		7301932	LL	1613B	12/17/2013	PH139	5.1	1	70648-26-9	1,2,3,4,7,8-HXCDF	5.07	U	0.0240	5.07	ng/kg	JB	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-511-NBZ-SB-2.5-3.5	12/4/2013	N	2.5	3.5	ft	SO	NBZ_DG		7301932	LL	1613B	12/17/2013	PH139	5.1	1	72918-21-9	1,2,3,7,8,9-HXCDF	5.07	U	0.0229	5.07	ng/kg	JBQ	U	B	1782865.109	266774.402	-118.719273	34.230937
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8015M	12/23/2013	PH155	6.3	1	PHCC30C40	EFH (C30-C40)	9.3	J	4.2	11	mg/kg	J	J	Z	1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8015M	12/23/2013	PH155	6.3	1	PHCC8C11	EFH (C8-C11)	5.3	U	2.1	5.3	mg/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	19	U	6.3	19	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	117-84-0	Di-n-octylphthalate	19	U	6.3	19	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	120-12-7	ANTHRACENE	1.7	U	0.35	1.7	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	129-00-0	PYRENE	1.7	U	0.70	1.7	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	131-11-3	DIMETHYL PHTHALATE	19	U	6.3	19	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	191-24-2	BENZO(G,H,I)PERYLENE	1.7	U	0.70	1.7	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	192-97-2	Benzo(e)pyrene	18	U	3.5	18	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.7	U	0.70	1.7	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	205-99-2	BENZO(B)FLUORANTHENE	1.7	U	0.70	1.7	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	206-44-0	FLUORANTHENE	1.7	U	0.70	1.7	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	207-08-9	BENZO(K)FLUORANTHENE	1.7	U	0.70	1.7	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	208-96-8	ACENAPHTHYLENE	1.7	U	0.35	1.7	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	218-01-9	Chrysene	0.44	J	0.35	1.7	ug/kg	J	J	Z	1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	50-32-8	BENZO(A)PYRENE	1.7	U	0.70	1.7	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.7	U	0.70	1.7	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	56-55-3	BENZO(A)ANTHRACENE	1.7	U	0.70	1.7	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.7	U	0.70	1.7	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	83-32-9	ACENAPHTHENE	1.7	U	0.70	1.7	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	84-66-2	DIETHYL PHTHALATE	19	U	6.3	19	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	84-74-2	Di-n-butylphthalate	19	U	6.3	19	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	85-01-8	PHENANTHRENE	1.7	U	0.70	1.7	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	85-68-7	BENZYL BUTYL PHTHALATE	19	U	6.3	19	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	86-73-7	FLUORENE	1.7	U	0.70	1.7	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	90-12-0	1-METHYLNAPHTHALENE	1.7	U	0.70	1.7	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	91-20-3	NAPHTHALENE	1.7	U	0.70	1.7	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	8270D SIM	1/2/2014	PH155	6.3	1	91-57-6	2-METHYLNAPHTHALENE	1.7	U	0.70	1.7	ug/kg	U			1782162.395	267208.227	-118.721608	34.232115
SL-517-NBZ-SB-2.0-3.0	######	N	2	3	ft	SO	NBZ_DG		7315438	LL	9045M	12/17/2013	PH155	6.3	1	pH	PH	6.91		0.0100	0.0100	pH unit				1782162.395	267208.227	-118.721608	34.232115
SL-518-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7315439	LL	160.3M	12/20/2013	PH155	3.5	1	MOIST	MOISTURE	3.5		0.10	0.10	%				1781804.808	267716.2	-118.722803	34.233504
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	160.3M	12/11/2013	PH138	2.6	1	MOIST	MOISTURE	2.6		0.10	0.10	%				1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8015M	12/12/2013	PH138	2.6	1	PHCC12C14	EFH (C12-C14)	5.1	U	2.1	5.1	mg/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8015M	12/12/2013	PH138	2.6	1	PHCC15C20	EFH (C15-C20)	5.1	U	2.1	5.1	mg/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8015M	12/12/2013	PH138	2.6	1	PHCC21C30	EFH (C21-C30)	5.1	U	2.1	5.1	mg/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8015M	12/12/2013	PH138	2.6	1	PHCC30C40	EFH (C30-C40)	4.2	J	4.1	10	mg/kg	J	J	Z	1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8015M	12/12/2013	PH138	2.6	1	PHCC8C11	EFH (C8-C11)	5.1	U	2.1	5.1	mg/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	1024-57-3	HEPTACHLOR EPOXIDE	0.84	U	0.17	0.84	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	1031-07-8	ENDOSULFAN SULFATE	1.7	U	0.33	1.7	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	2385-85-5	MIREX	1.7	U	0.35	1.7	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	309-00-2	ALDRIN	0.84	U	0.17	0.84	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	319-84-6	ALPHA-BHC	0.84	U	0.17	0.84	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	319-85-7	BETA-BHC	1.9	U	0.97	1.9	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	319-86-8	DELTA-BHC	0.84	U	0.46	0.84	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	33213-65-9	ENDOSULFAN II	1.7	U	0.33	1.7	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	50-29-3	4,4'-DDT	1.7	U	0.35	1.7	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	53494-70-5	ENDRIN KETONE	1.8	U	0.61	1.8	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	57-74-9	CHLORDANE	17	U	4.1	17	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	58-89-9	gamma-BHC (Lindane)	0.84	U	0.17	0.84	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	60-57-1	DIELDRIN	1.7	U	0.33	1.7	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	72-20-8	ENDRIN	1.7	U	0.33	1.7	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	72-43-5	Methoxychlor	6.8	U	1.7	6.8	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	72-54-8	4,4'-DDD	1.7	U	0.33	1.7	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	72-55-9	4,4'-DDE	1.7	U	0.33	1.7	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	7421-93-4	ENDRIN ALDEHYDE	1.7	U	0.33	1.7	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	76-44-8	HEPTACHLOR	0.84	U	0.17	0.84	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	8001-35-2	Toxaphene	33	U	14	33	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-530-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300102	LL	8081B	12/16/2013	PH138	2.6	1	959-98-8	ENDOSULFAN I	0.84	U	0.22	0.84	ug/kg	U			1785189.321	268130.734	-118.711615	34.234709
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	160.3M	12/11/2013	PH138	2.1	1	MOIST	MOISTURE	2.1		0.10	0.10	%				1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8015M	12/12/2013	PH138	2.1	1	PHCC12C14	EFH (C12-C14)	5.1	U	2.0	5.1	mg/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8015M	12/12/2013	PH138	2.1	1	PHCC15C20	EFH (C15-C20)	5.1	U	2.0	5.1	mg/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8015M	12/12/2013	PH138	2.1	1	PHCC21C30	EFH (C21-C30)	5.1	U	2.0	5.1	mg/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8015M	12/12/2013	PH138	2.1	1	PHCC30C40	EFH (C30-C40)	7.9	J	4.1	10	mg/kg	J	J	Z	1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8015M	12/12/2013	PH138	2.1	1	PHCC8C11	EFH (C8-C11)	5.1	U	2.0	5.1	mg/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	1024-57-3	HEPTACHLOR EPOXIDE	0.84	U	0.17	0.84	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	1031-07-8	ENDOSULFAN SULFATE	1.7	U	0.33	1.7	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	2385-85-5	MIREX	1.7	U	0.36	1.7	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	309-00-2	ALDRIN	0.84	U	0.17	0.84	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	319-84-6	ALPHA-BHC	0.84	U	0.17	0.84	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	319-85-7	BETA-BHC	1.9	U	0.97	1.9	ug/kg	U			1785291.083	268235.778	-118.711281	34.235

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	319-86-8	DELTA-BHC	0.84	U	0.46	0.84	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	33213-65-9	ENDOSULFAN II	1.7	U	0.33	1.7	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	50-29-3	4,4'-DDT	1.7	U	0.36	1.7	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	53494-70-5	ENDRIN KETONE	1.8	U	0.61	1.8	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	57-74-9	CHLORDANE	17	U	4.1	17	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	58-89-9	gamma-BHC (Lindane)	0.84	U	0.17	0.84	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	60-57-1	DIELDRIN	1.7	U	0.33	1.7	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	72-20-8	ENDRIN	1.7	U	0.33	1.7	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	72-43-5	Methoxychlor	6.8	U	1.7	6.8	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	72-54-8	4,4'-DDD	1.7	U	0.33	1.7	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	72-55-9	4,4'-DDE	1.7	U	0.33	1.7	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	7421-93-4	ENDRIN ALDEHYDE	1.7	U	0.33	1.7	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	76-44-8	HEPTACHLOR	0.84	U	0.17	0.84	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	8001-35-2	Toxaphene	33	U	14	33	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-531-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300103	LL	8081B	12/16/2013	PH138	2.1	1	959-98-8	ENDOSULFAN I	0.84	U	0.22	0.84	ug/kg	U			1785291.083	268235.778	-118.711281	34.235
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	160.3M	12/11/2013	PH138	2.7	1	MOIST	MOISTURE	2.7		0.10	0.10	%				1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8015M	12/12/2013	PH138	2.7	1	PHCC12C14	EFH (C12-C14)	5.1	U	2.1	5.1	mg/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8015M	12/12/2013	PH138	2.7	1	PHCC15C20	EFH (C15-C20)	5.1	U	2.1	5.1	mg/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8015M	12/12/2013	PH138	2.7	1	PHCC21C30	EFH (C21-C30)	5.1	U	2.1	5.1	mg/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8015M	12/12/2013	PH138	2.7	1	PHCC30C40	EFH (C30-C40)	10	U	4.1	10	mg/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8015M	12/12/2013	PH138	2.7	1	PHCC8C11	EFH (C8-C11)	5.1	U	2.1	5.1	mg/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	1024-57-3	HEPTACHLOR EPOXIDE	0.85	U	0.17	0.85	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	1031-07-8	ENDOSULFAN SULFATE	1.7	U	0.34	1.7	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	2385-85-5	MIREX	1.7	U	0.36	1.7	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	309-00-2	ALDRIN	0.85	U	0.17	0.85	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	319-84-6	ALPHA-BHC	0.85	U	0.17	0.85	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	319-85-7	BETA-BHC	2	U	0.99	2.0	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	319-86-8	DELTA-BHC	0.85	U	0.46	0.85	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	33213-65-9	ENDOSULFAN II	1.7	U	0.34	1.7	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	50-29-3	4,4'-DDT	1	J	0.36	1.7	ug/kg	J	J	Z	1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	53494-70-5	ENDRIN KETONE	1.8	U	0.62	1.8	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	57-74-9	CHLORDANE	17	U	4.1	17	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	58-89-9	gamma-BHC (Lindane)	0.85	U	0.17	0.85	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	60-57-1	DIELDRIN	1.7	U	0.34	1.7	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	72-20-8	ENDRIN	1.7	U	0.34	1.7	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	72-43-5	Methoxychlor	6.9	U	1.7	6.9	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	72-54-8	4,4'-DDD	1.7	U	0.34	1.7	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	72-55-9	4,4'-DDE	1.7	U	0.34	1.7	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	7421-93-4	ENDRIN ALDEHYDE	1.7	U	0.34	1.7	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	76-44-8	HEPTACHLOR	0.85	U	0.17	0.85	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	8001-35-2	Toxaphene	34	U	14	34	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-532-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300104	LL	8081B	12/16/2013	PH138	2.7	1	959-98-8	ENDOSULFAN I	0.85	U	0.23	0.85	ug/kg	U			1785366.937	268123.913	-118.711028	34.234694
SL-533-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300105	LL	160.3M	12/11/2013	PH138	2.1	1	MOIST	MOISTURE	2.1		0.10	0.10	%				1785463.656	268249.646	-118.71071	34.235041
SL-533-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300105	LL	8015M	12/12/2013	PH138	2.1	1	PHCC12C14	EFH (C12-C14)	5.1	U	2.0	5.1	mg/kg	U			1785463.656	268249.646	-118.71071	34.235041
SL-533-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300105	LL	8015M	12/12/2013	PH138	2.1	1	PHCC15C20	EFH (C15-C20)	5.1	U	2.0	5.1	mg/kg	U			1785463.656	268249.646	-118.71071	34.235041
SL-533-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300105	LL	8015M	12/12/2013	PH138	2.1	1	PHCC21C30	EFH (C21-C30)	2.8	J	2.0	5.1	mg/kg	J	J	Z	1785463.656	268249.646	-118.71071	34.235041
SL-533-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300105	LL	8015M	12/12/2013	PH138	2.1	1	PHCC30C40	EFH (C30-C40)	6.4	J	4.1	10	mg/kg	J	J	Z	1785463.656	268249.646	-118.71071	34.235041
SL-533-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300105	LL	8015M	12/12/2013	PH138	2.1	1	PHCC8C11	EFH (C8-C11)	5.1	U	2.0	5.1	mg/kg	U			1785463.656	268249.646	-118.71071	34.235041
SL-533-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300105	LL	8151A	12/15/2013	PH138	2.1	1	120-36-5	DICHLORPROP	17	U	9.1	17	ug/kg	U			1785463.656	268249.646	-118.71071	34.235041
SL-533-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300105	LL	8151A	12/15/2013	PH138	2.1	1	1918-00-9	DICAMBA	12	U	4.1	12	ug/kg	U			1785463.656	268249.646	-118.71071	34.235041
SL-533-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300105	LL	8151A	12/15/2013	PH138	2.1	1	75-99-0	2,2-DICHLOR0PROPIONIC ACID	91	U	45	91	ug/kg	U			1785463.656	268249.646	-118.71071	34.235041
SL-533-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300105	LL	8151A	12/15/2013	PH138	2.1	1	88-85-7	DINITROBUTYL PHENOL	24	U	9.1	24	ug/kg	U			1785463.656	268249.646	-118.71071	34.235041
SL-533-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300105	LL	8151A	12/15/2013	PH138	2.1	1	93-65-2	MCPP	2500	U	760	2500	ug/kg	U			1785463.656	268249.646	-118.71071	34.235041
SL-533-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300105	LL	8151A	12/15/2013	PH138	2.1	1	93-72-1	2,4,5-TP (Silvex)	1.7	U	0.76	1.7	ug/kg	U			1785463.656	268249.646	-118.71071	34.235041
SL-533-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300105	LL	8151A	12/15/2013	PH138	2.1	1	93-76-5	2,4,5-T	1.7	U	0.83	1.7	ug/kg	U			1785463.656	268249.646	-118.71071	34.235041
SL-533-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300105	LL	8151A	12/15/2013	PH138	2.1	1	94-74-6	MCPA (2-METHYL-4-CHLOROPHENOXYACETIC A	2500	U	770	2500	ug/kg	U			1785463.656	268249.646	-118.71071	34.235041
SL-533-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300105	LL	8151A	12/15/2013	PH138	2.1	1	94-75-7	2,4-D	37	U	12	37	ug/kg	U			1785463.656	268249.646	-118.71071	34.235041
SL-533-NBZ-SB-0.0-0.5	12/3/2013	N	0	0.5	ft	SO	NBZ_DG		7300105	LL	8151A	12/15/2013	PH138	2.1	1	94-82-6	2,4-DB	27	U	27	27	ug/kg	U			1785463.656	268249.646	-118.71071	34.235041
SL-545-NBZ-SB-0.0-0.5	12/4/2013	N	0	0.5	ft	SO	NBZ_DG		7301926	LL	160.3M	12/12/2013	PH139	7.5	1	MOIST	MOISTURE	7.5		0.10	0.10	%				1787238.443	269060.427	-118.704858	34.237303
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8081B	12/17/2013	PH140	7.2	1	959-98-8	ENDOSULFAN I	0.89	U	0.24	0.89	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8082A	12/16/2013	PH140	7.2	1	11096-82-5	Aroclor 1260	18	U	4.2	18	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8082A	12/16/2013	PH140	7.2	1	11097-69-1	Aroclor 1254	18	U	4.7	18	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8082A	12/16/2013	PH140	7.2	1	11100-14-4	Aroclor 1268	18	U	3.5	18	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8082A	12/16/2013	PH140	7.2	1	11104-28-2	Aroclor 1221	18	U	5.4	18	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8082A	12/16/2013	PH140	7.2	1	11126-42-4	Aroclor 5460	35	U	11	35	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8082A	12/16/2013	PH140	7.2	1	11141-16-5	Aroclor 1232	18	U	4.4	18	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8082A	12/16/2013	PH140	7.2	1	12642-23-8	Aroclor 5442	35	U	11	35	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8082A	12/16/2013	PH140	7.2	1	12672-29-6	Aroclor 1248	18	U	3.5	18	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8082A	12/16/2013	PH140	7.2	1	12674-11-2	Aroclor 1016	18	U	3.5	18	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8082A	12/16/2013	PH140	7.2	1	37324-23-5	Aroclor 1262	18	U	3.5	18	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8082A	12/16/2013	PH140	7.2	1	53469-21-9	Aroclor 1242	18	U	4.4	18	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8082A	12/16/2013	PH140	7.2	1	63496-31-1	Aroclor 5432	35	U	11	35	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	19	U	6.4	19	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	117-84-0	Di-n-octylphthalate	19	U	6.4	19	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	120-12-7	ANTHRACENE	1.8	U	0.35	1.8	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	129-00-0	PYRENE	1.4	J	0.71	1.8	ug/kg	J	J	Z	1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	131-11-3	DIMETHYL PHTHALATE	19	U	6.4	19	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	191-24-2	BENZO(G,H,I)PERYLENE	1.8	U	0.71	1.8	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	192-97-2	Benzo(e)pyrene	18	U	3.5	18	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.8	U	0.71	1.8	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	205-99-2	BENZO(B)FLUORANTHENE	1.6	J	0.71	1.8	ug/kg	J	J	Z	1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	206-44-0	FLUORANTHENE	1.7	J	0.71	1.8	ug/kg	J	J	Z	1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	207-08-9	BENZO(K)FLUORANTHENE	1.8	U	0.71	1.8	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	208-96-8	ACENAPHTHYLENE	1.8	U	0.35	1.8	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	218-01-9	Chrysene	1.9		0.35	1.8	ug/kg				1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	50-32-8	BENZO(A)PYRENE	1.8	U	0.71	1.8	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.8	U	0.71	1.8	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	56-55-3	BENZO(A)ANTHRACENE	1.8	U	0.71	1.8	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.8	U	0.71	1.8	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	83-32-9	ACENAPHTHENE	1.8	U	0.71	1.8	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	84-66-2	DIETHYL PHTHALATE	19	U	6.4	19	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	84-74-2	Di-n-butylphthalate	19	U	6.4	19	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	85-01-8	PHENANTHRENE	2.4		0.71	1.8	ug/kg				1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	85-68-7	BENZYL BUTYL PHTHALATE	19	U	6.4	19	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	86-73-7	FLUORENE	1.8	U	0.71	1.8	ug/kg	U			1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	90-12-0	1-METHYLNAPHTHALENE	1.2	J	0.71	1.8	ug/kg	J	J	Z	1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	91-20-3	NAPHTHALENE	5.4		0.71	1.8	ug/kg				1783745.495	269138.788	-118.716416	34.237451
SL-529-NBZ-SB-0.0-0.5	12/5/2013	N	0	0.5	ft	SO	NBZ_DG		7306310	LL	8270D SIM	12/29/2013	PH140	7.2	1	91-57-6	2-METHYLNAPHTHALENE	1.8		0.71	1.8	ug/kg	J			1783745.495	269138.788	-118.716416	34.237451
SL-534-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305592	LL	160.3M	12/13/2013	PH141	2.2	1	MOIST	MOISTURE	2.2		0.10	0.10	%				1785691.881	268699.5	-118.709966	34.236282
SL-534-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305592	LL	8015M	12/13/2013	PH141	2.2	1	PHCC12C14	EFH (C12-C14)	5.1	U	2.0	5.1	mg/kg	U			1785691.881	268699.5	-118.709966	34.236282
SL-534-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305592	LL	8015M	12/13/2013	PH141	2.2	1	PHCC15C20	EFH (C15-C20)	2.5	J	2.0	5.1	mg/kg	J	J	Z	1785691.881	268699.5	-118.709966	34.236282
SL-534-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305592	LL	8015M	12/13/2013	PH141	2.2	1	PHCC21C30	EFH (C21-C30)	18		2.0	5.1	mg/kg				1785691.881	268699.5	-118.709966	34.236282
SL-534-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305592	LL	8015M	12/13/2013	PH141	2.2	1	PHCC30C40	EFH (C30-C40)	42		4.1	10	mg/kg				1785691.881	268699.5	-118.709966	34.236282
SL-534-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305592	LL	8015M	12/13/2013	PH141	2.2	1	PHCC8C11	EFH (C8-C11)	5.1	U	2.0	5.1	mg/kg	U			1785691.881	268699.5	-118.709966	34.236282
SL-535-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305593	LL	160.3M	12/13/2013	PH141	16	1	MOIST	MOISTURE	16		0.10	0.10	%				1785743.262	268985.94	-118.709803	34.23707
SL-535-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305593	LL	8015M	12/13/2013	PH141	16	1	PHCC12C14	EFH (C12-C14)	6	U	2.4	6.0	mg/kg	U			1785743.262	268985.94	-118.709803	34.23707
SL-535-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305593	LL	8015M	12/13/2013	PH141	16	1	PHCC15C20	EFH (C15-C20)	7		2.4	6.0	mg/kg				1785743.262	268985.94	-118.709803	34.23707
SL-535-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305593	LL	8015M	12/13/2013	PH141	16	1	PHCC21C30	EFH (C21-C30)	36		2.4	6.0	mg/kg				1785743.262	268985.94	-118.709803	34.23707
SL-535-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305593	LL	8015M	12/13/2013	PH141	16	1	PHCC30C40	EFH (C30-C40)	85		4.8	12	mg/kg				1785743.262	268985.94	-118.709803	34.23707
SL-535-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305593	LL	8015M	12/13/2013	PH141	16	1	PHCC8C11	EFH (C8-C11)	6	U	2.4	6.0	mg/kg	U			1785743.262	268985.94	-118.709803	34.23707
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	160.3M	12/13/2013	PH141	3	1	MOIST	MOISTURE	3		0.10	0.10	%				1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	1613B	12/17/2013	PH141	3	1	1746-01-6	2,3,7,8-TCDD	0.996	U	0.0792	0.996	ng/kg	JBQ	U	B	1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	1613B	12/17/2013	PH141	3	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	4.98	U	0.0504	4.98	ng/kg	JBQ	U	B	1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	1613B	12/17/2013	PH141	3	1	3268-87-9	OCDD	19.3		0.0507	9.96	ng/kg	B			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	1613B	12/17/2013	PH141	3	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	2.71	J	0.0582	4.98	ng/kg	JB	J	Z	1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	1613B	12/17/2013	PH141	3	1	39001-02-0	OCDF	9.96	U	0.0730	9.96	ng/kg	JB	U	B	1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	1613B	12/17/2013	PH141	3	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	4.98	U	0.0516	4.98	ng/kg	JB	U	B	1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	1613B	12/17/2013	PH141	3	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	4.98	U	0.0548	4.98	ng/kg	JBQ	U	B	1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	1613B	12/17/2013	PH141	3	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	0.996	U	0.0894	0.996	ng/kg	JBQ	U	B	1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	1613B	12/17/2013	PH141	3	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	4.98	U	0.0468	4.98	ng/kg	JBQ	U	B	1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	1613B	12/17/2013	PH141	3	1	57117-31-4	2,3,4,7,8-PECDF	4.98	U	0.0473	4.98	ng/kg	JB	U	B	1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	1613B	12/17/2013	PH141	3	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	4.98	U	0.0500	4.98	ng/kg	JB	U	B	1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	1613B	12/17/2013	PH141	3	1	57117-44-9	1,2,3,6,7,8-HXCDF	4.98	U	0.0514	4.98	ng/kg	JB	U	B	1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	1613B	12/17/2013	PH141	3	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	4.98	U	0.0541	4.98	ng/kg	JB	U	B	1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	1613B	12/17/2013	PH141	3	1	60851-34-5	2,3,4,6,7,8-HXCDF	4.98	U	0.0491	4.98	ng/kg	JB	U	B	1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	1613B	12/17/2013	PH141	3	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	4.98	U	0.0379	4.98	ng/kg	JB	U	B	1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	1613B	12/17/2013	PH141	3	1	70648-26-9	1,2,3,4,7,8-HXCDF	4.98	U	0.0536	4.98	ng/kg	JB	U	B	1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	1613B	12/17/2013	PH141	3	1	72918-21-9	1,2,3,7,8,9-HXCDF	4.98	U	0.0518	4.98	ng/kg	JBQ	U	B	1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8015M	12/13/2013	PH141	3	2	PHCC12C14	EFH (C12-C14)	10	U	4.1	10	mg/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8015M	12/13/2013	PH141	3	2	PHCC15C20	EFH (C15-C20)	8.1	J	4.1	10	mg/kg	J	J	Z	1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8015M	12/13/2013	PH141	3	2	PHCC21C30	EFH (C21-C30)	43		4.1	10	mg/kg				1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8015M	12/13/2013	PH141	3	2	PHCC30C40	EFH (C30-C40)	140		8.2	21	mg/kg				1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8015M	12/13/2013	PH141	3	2	PHCC8C11	EFH (C8-C11)	10	U	4.1	10	mg/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	1024-57-3	HEPTACHLOR EPOXIDE	0.86	U	0.18	0.86	ug/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	1031-07-8	ENDOSULFAN SULFATE	1.8	U	0.34	1.8	ug/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	2385-85-5	MIREX	1.8	U	0.36	1.8	ug/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	309-00-2	ALDRIN	0.86	U	0.18	0.86	ug/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	319-84-6	ALPHA-BHC	0.86	U	0.18	0.86	ug/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	319-85-7	BETA-BHC	2	U	0.99	2.0	ug/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	319-86-8	DELTA-BHC	0.86	U	0.46	0.86	ug/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	33213-65-9	ENDOSULFAN II	1.8	U	0.34	1.8	ug/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	50-29-3	4,4'-DDT	0.86	J	0.36	1.8	ug/kg	J	J	Z	1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	53494-70-5	ENDRIN KETONE	1.9	U	0.62	1.9	ug/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	57-74-9	CHLORDANE	18	U	4.1	18	ug/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	58-89-9	gamma-BHC (Lindane)	0.86	U	0.18	0.86	ug/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	60-57-1	DIELDRIN	1.9	U	1.9	1.9	ug/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	72-20-8	ENDRIN	1.8	U	0.34	1.8	ug/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	72-43-5	Methoxychlor	6.9	U	1.8	6.9	ug/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	72-54-8	4,4'-DDD	1.8	U	0.34	1.8	ug/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	72-55-9	4,4'-DDE	0.89	J	0.34	1.8	ug/kg	J	J	Z	1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	7421-93-4	ENDRIN ALDEHYDE	1.8	U	0.34	1.8	ug/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	76-44-8	HEPTACHLOR	0.86	U	0.18	0.86	ug/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	8001-35-2	Toxaphene	34	U	14	34	ug/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-537-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305595	LL	8081B	12/16/2013	PH141	3	1	959-98-8	ENDOSULFAN I	0.86	U	0.23	0.86	ug/kg	U			1786030.101	269097.572	-118.708856	34.237382
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	160.3M	12/13/2013	PH141	1.6	1	MOIST	MOISTURE	1.6		0.10	0.10	%				1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	1613B	12/17/2013	PH141	1.6	1	1746-01-6	2,3,7,8-TCDD	0.972	U	0.0611	0.972	ng/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	1613B	12/17/2013	PH141	1.6	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	4.86	U	0.0305	4.86	ng/kg	JB	U	B	1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	1613B	12/17/2013	PH141	1.6	1	3268-87-9	OCDD	6.81	J	0.0394	9.72	ng/kg	JB	J	Z	1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	1613B	12/17/2013	PH141	1.6	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	4.86	U	0.0434	4.86	ng/kg	JB	U	B	1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	1613B	12/17/2013	PH141	1.6	1	39001-02-0	OCDF	9.72	U	0.0629	9.72	ng/kg	JB	U	B	1786103.748	269342.846	-118.708618	34.238058

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	1613B	12/17/2013	PH141	1.6	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	4.86	U	0.0311	4.86	ng/kg	JBQ	U	B	1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	1613B	12/17/2013	PH141	1.6	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	4.86	U	0.0382	4.86	ng/kg	JBQ	U	B	1786103.748	269342.846	-118.708618	34.238058
SL-538-NBZ-SB-0.0-0.5	12/6/2013	N	0	0.5	ft	SO	NBZ_DG		7305596	LL	1613B	12/17/2013	PH141	1.6	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	0.972	U	0.0625	0.972	ng/kg	U			1786103.748	269342.846	-118.708618	34.238058
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8081B	12/19/2013	PH148	6.4	1	57-74-9	CHLORDANE	18	U	4.2	18	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8081B	12/19/2013	PH148	6.4	1	58-89-9	gamma-BHC (Lindane)	0.88	U	0.46	0.88	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8081B	12/19/2013	PH148	6.4	1	60-57-1	DIELDRIN	1.8	U	0.35	1.8	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8081B	12/19/2013	PH148	6.4	1	72-20-8	ENDRIN	1.8	U	0.35	1.8	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8081B	12/19/2013	PH148	6.4	1	72-43-5	Methoxychlor	7.1	U	1.8	7.1	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8081B	12/19/2013	PH148	6.4	1	72-54-8	4,4'-DDD	1.8	U	0.35	1.8	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8081B	12/19/2013	PH148	6.4	1	72-55-9	4,4'-DDE	1.2	J	0.35	1.8	ug/kg	J	J	Z	1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8081B	12/19/2013	PH148	6.4	1	7421-93-4	ENDRIN ALDEHYDE	1.8	U	0.35	1.8	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8081B	12/19/2013	PH148	6.4	1	76-44-8	HEPTACHLOR	0.88	U	0.18	0.88	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8081B	12/19/2013	PH148	6.4	1	8001-35-2	Toxaphene	35	U	15	35	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8081B	12/19/2013	PH148	6.4	1	959-98-8	ENDOSULFAN I	0.88	U	0.23	0.88	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8151A	12/19/2013	PH148	6.4	1	120-36-5	DICHLORPROP	18	U	9.6	18	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8151A	12/19/2013	PH148	6.4	1	1918-00-9	DICAMBA	13	U	4.3	13	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8151A	12/19/2013	PH148	6.4	1	75-99-0	2,2-DICHLOROPROPIONIC ACID	96	U	47	96	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8151A	12/19/2013	PH148	6.4	1	88-85-7	DINITROBUTYL PHENOL	26	U	9.6	26	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8151A	12/19/2013	PH148	6.4	1	93-65-2	MCPP	1300	J	800	2700	ug/kg	J	J	Z	1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8151A	12/19/2013	PH148	6.4	1	93-72-1	2,4,5-TP (Silvex)	1.8	U	0.80	1.8	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8151A	12/19/2013	PH148	6.4	1	93-76-5	2,4,5-T	1.8	U	0.88	1.8	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8151A	12/19/2013	PH148	6.4	1	94-74-6	MCPA (2-METHYL-4-CHLOROPHENOXYACETIC A	2700	U	810	2700	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8151A	12/19/2013	PH148	6.4	1	94-75-7	2,4-D	38	U	13	38	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8151A	12/19/2013	PH148	6.4	1	94-82-6	2,4-DB	18	U	11	18	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	8.1	J	6.3	19	ug/kg	J	J	Z	1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	117-84-0	Di-n-octylphthalate	19	U	6.3	19	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	120-12-7	ANTHRACENE	1.8	U	0.35	1.8	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	129-00-0	PYRENE	2.3		0.70	1.8	ug/kg				1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	131-11-3	DIMETHYL PHTHALATE	19	U	6.3	19	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	191-24-2	BENZO(G,H,I)PERYLENE	1.2	J	0.70	1.8	ug/kg	J	J	Z	1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	192-97-2	Benzo(e)pyrene	18	U	3.5	18	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.8	U	0.70	1.8	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	205-99-2	BENZO(B)FLUORANTHENE	3.8		0.70	1.8	ug/kg				1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	206-44-0	FLUORANTHENE	2.4		0.70	1.8	ug/kg				1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	207-08-9	BENZO(K)FLUORANTHENE	1.4	J	0.70	1.8	ug/kg	J	J	Z	1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	208-96-8	ACENAPHTHYLENE	1.8	U	0.35	1.8	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	218-01-9	Chrysene	4.2		0.35	1.8	ug/kg				1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	50-32-8	BENZO(A)PYRENE	1.7	J	0.70	1.8	ug/kg	J	J	Z	1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.8	U	0.70	1.8	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	56-55-3	BENZO(A)ANTHRACENE	1	J	0.70	1.8	ug/kg	J	J	Z	1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.8	U	0.70	1.8	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	83-32-9	ACENAPHTHENE	1.8	U	0.70	1.8	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	84-66-2	DIETHYL PHTHALATE	19	U	6.3	19	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	84-74-2	Di-n-butylphthalate	19	U	6.3	19	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	85-01-8	PHENANTHRENE	2.4		0.70	1.8	ug/kg				1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	85-68-7	BENZYL BUTYL PHTHALATE	19	U	6.3	19	ug/kg	U			1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	86-73-7	FLUORENE	16		0.70	1.8	ug/kg				1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	90-12-0	1-METHYLNAPHTHALENE	0.85	J	0.70	1.8	ug/kg	J	J	Z	1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	91-20-3	NAPHTHALENE	3.5		0.70	1.8	ug/kg				1786699.659	270147.786	-118.706665	34.240281
SL-542-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312459	LL	8270D SIM	12/31/2013	PH148	6.4	1	91-57-6	2-METHYLNAPHTHALENE	1.8		0.70	1.8	ug/kg				1786699.659	270147.786	-118.706665	34.240281
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	160.3M	12/18/2013	PH148	4	1	MOIST	MOISTURE	4		0.10	0.10	%				1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8015M	12/23/2013	PH148	4	5	PHCC12C14	EFH (C12-C14)	26	U	10	26	mg/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8015M	12/23/2013	PH148	4	5	PHCC15C20	EFH (C15-C20)	26	U	10	26	mg/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8015M	12/23/2013	PH148	4	5	PHCC21C30	EFH (C21-C30)	72		10	26	mg/kg				1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8015M	12/23/2013	PH148	4	5	PHCC30C40	EFH (C30-C40)	170		21	52	mg/kg				1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8015M	12/23/2013	PH148	4	5	PHCC8C11	EFH (C8-C11)	26	U	10	26	mg/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	190	U	62	190	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	117-84-0	Di-n-octylphthalate	190	U	62	190	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	120-12-7	ANTHRACENE	17	U	3.4	17	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	129-00-0	PYRENE	17	U	6.9	17	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	131-11-3	DIMETHYL PHTHALATE	190	U	62	190	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	191-24-2	BENZO(G,H,I)PERYLENE	17	U	6.9	17	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	192-97-2	Benzo(e)pyrene	180	U	34	180	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	193-39-5	INDENO(1,2,3-CD)PYRENE	17	U	6.9	17	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	205-99-2	BENZO(B)FLUORANTHENE	17	U	6.9	17	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	206-44-0	FLUORANTHENE	17	U	6.9	17	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	207-08-9	BENZO(K)FLUORANTHENE	17	U	6.9	17	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	208-96-8	ACENAPHTHYLENE	17	U	3.4	17	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	218-01-9	Chrysene	8.1	J	3.4	17	ug/kg	J	J	Z	1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	50-32-8	BENZO(A)PYRENE	17	U	6.9	17	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	53-70-3	DIBENZO(A,H)ANTHRACENE	17	U	6.9	17	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	56-55-3	BENZO(A)ANTHRACENE	17	U	6.9	17	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	17	U	6.9	17	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	83-32-9	ACENAPHTHENE	17	U	6.9	17	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	84-66-2	DIETHYL PHTHALATE	190	U	62	190	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	84-74-2	Di-n-butylphthalate	190	U	62	190	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	85-01-8	PHENANTHRENE	17	U	6.9	17	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	85-68-7	BENZYL BUTYL PHTHALATE	190	U	62	190	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	86-73-7	FLUORENE	17	U	6.9	17	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	90-12-0	1-METHYLNAPHTHALENE	17	U	6.9	17	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	91-20-3	NAPHTHALENE	17	U	6.9	17	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-543-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312461	LL	8270D SIM	12/31/2013	PH148	4	10	91-57-6	2-METHYLNAPHTHALENE	17	U	6.9	17	ug/kg	U			1787195.331	269126.227	-118.705002	34.237483
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	160.3M	12/18/2013	PH148	3.7	1	MOIST	MOISTURE	3.7		0.10	0.10	%				1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	1613B	12/24/2013	PH148	3.7	1	1746-01-6	2,3,7,8-TCDD	0.993	UJ	0.0937	0.993	ng/kg	U	UJ	FD	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	1613B	12/24/2013	PH148	3.7	1	19408-74-3	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	0.429	J	0.0418	4.96	ng/kg	J	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	1613B	12/24/2013	PH148	3.7	1	3268-87-9	OCDD	43.6		0.0344	9.93	ng/kg	B			1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	1613B	12/24/2013	PH148	3.7	1	35822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	4.41	J	0.0420	4.96	ng/kg	JB	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	1613B	12/24/2013	PH148	3.7	1	39001-02-0	OCDF	2.24	J	0.0456	9.93	ng/kg	JB	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	1613B	12/24/2013	PH148	3.7	1	39227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	0.133	J	0.0418	4.96	ng/kg	JQ	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	1613B	12/24/2013	PH148	3.7	1	40321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	0.126	J	0.0562	4.96	ng/kg	JQ	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	1613B	12/24/2013	PH148	3.7	1	51207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN	0.126	J	0.0872	0.993	ng/kg	J	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	1613B	12/24/2013	PH148	3.7	1	55673-89-7	1,2,3,4,7,8,9-HPCDF	4.96	UJ	0.0388	4.96	ng/kg	JB	UJ	B, FD	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	1613B	12/24/2013	PH148	3.7	1	57117-31-4	2,3,4,7,8-PECDF	4.96	U	0.0325	4.96	ng/kg	JB	U	B	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	1613B	12/24/2013	PH148	3.7	1	57117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN	4.96	U	0.0343	4.96	ng/kg	JB	U	B	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	1613B	12/24/2013	PH148	3.7	1	57117-44-9	1,2,3,6,7,8-HXCDF	0.214	J	0.0294	4.96	ng/kg	JQ	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	1613B	12/24/2013	PH148	3.7	1	57653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	0.474	J	0.0447	4.96	ng/kg	JB	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	1613B	12/24/2013	PH148	3.7	1	60851-34-5	2,3,4,6,7,8-HXCDF	4.96	U	0.0309	4.96	ng/kg	JB	U	B	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	1613B	12/24/2013	PH148	3.7	1	67562-39-4	1,2,3,4,6,7,8-HPCDF	1.99	J	0.0270	4.96	ng/kg	JB	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	1613B	12/24/2013	PH148	3.7	1	70648-26-9	1,2,3,4,7,8-HXCDF	4.96	U	0.0326	4.96	ng/kg	JB	U	B	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	1613B	12/24/2013	PH148	3.7	1	72918-21-9	1,2,3,7,8,9-HXCDF	4.96	UJ	0.0342	4.96	ng/kg	JBQ	UJ	B, FD	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7429-90-5	ALUMINUM (FUME OR DUST)	9680		7.20	39.9	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7439-89-6	IRON	17600		3.61	39.9	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7439-95-4	MAGNESIUM	3920		1.67	9.98	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7439-96-5	MANGANESE	276		0.0829	0.998	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7440-02-0	NICKEL	8.13		0.130	2.00	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7440-09-7	POTASSIUM	2770		8.33	99.8	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7440-31-5	TIN	9.98	U	0.220	9.98	mg/kg	J	U	B	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7440-32-6	TITANIUM METAL POWDER	871		0.170	0.998	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7440-36-0	ANTIMONY	3.99	UJ	0.739	3.99	mg/kg	U	UJ	FD, Q	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7440-38-2	ARSENIC	2.84	J	0.699	3.99	mg/kg	J	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7440-39-3	BARIUM	65.1		0.0329	0.998	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7440-41-7	BERYLLIUM	0.359	J	0.0669	0.998	mg/kg	J	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7440-42-8	BORON	8.3	J	0.839	9.98	mg/kg	J	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7440-43-9	CADMIUM	0.464	J	0.0759	0.998	mg/kg	J	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7440-47-3	CHROMIUM	13.8		0.160	3.00	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7440-48-4	COBALT	4.46		0.0988	0.998	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7440-50-8	COPPER	3.8	J	0.290	2.00	mg/kg		J	FD	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7440-62-2	VANADIUM (FUME OR DUST)	27.3		0.130	0.998	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7440-66-6	ZINC	51.6		0.200	3.99	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7440-70-2	CALCIUM METAL	2090		3.33	20.0	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7723-14-0	PHOSPHORUS	385	J	2.89	9.98	mg/kg		J	Q	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/27/2013	PH148	3.7	1	7439-92-1	LEAD	6.86		0.499	3.00	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/26/2013	PH148	3.7	1	7439-93-2	LITHIUM	25.5		0.34	4.0	mg/kg				1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/26/2013	PH148	3.7	1	7439-98-7	MOLYBDENUM	2	U	0.170	2.00	mg/kg	J	U	F	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/26/2013	PH148	3.7	1	7440-23-5	SODIUM	53.9	J	16.7	99.8	mg/kg	J	J	Z	1787147.609	268982.757	-118.705156	34.237088
SL-544-NBZ-SB-0.0-0.5	######	N	0	0.5	ft	SO	NBZ_DG		7312462	LL	6010C	12/26/2013	PH148	3.7	1	7440-67-7	ZIRCONIUM	0.877	J	0.839	4.99	mg/kg	J	J	FD, Z	1787147.609	268982.757	-118.705156	34.237088
SL-845-NBZ-SB-0.0-0.5	12/4/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-545-NBZ-SB-0.0-0.5	7301930	LL	8270D SIM	12/24/2013	PH139	5.6	10	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	18	U	7.1	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-845-NBZ-SB-0.0-0.5	12/4/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-545-NBZ-SB-0.0-0.5	7301930	LL	8270D SIM	12/24/2013	PH139	5.6	10	83-32-9	ACENAPHTHENE	18	U	7.1	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-845-NBZ-SB-0.0-0.5	12/4/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-545-NBZ-SB-0.0-0.5	7301930	LL	8270D SIM	12/24/2013	PH139	5.6	10	84-66-2	DIETHYL PHTHALATE	190	U	64	190	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-845-NBZ-SB-0.0-0.5	12/4/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-545-NBZ-SB-0.0-0.5	7301930	LL	8270D SIM	12/24/2013	PH139	5.6	10	84-74-2	Di-n-butylphthalate	190	U	64	190	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-845-NBZ-SB-0.0-0.5	12/4/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-545-NBZ-SB-0.0-0.5	7301930	LL	8270D SIM	12/24/2013	PH139	5.6	10	85-01-8	PHENANTHRENE	18	U	7.1	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-845-NBZ-SB-0.0-0.5	12/4/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-545-NBZ-SB-0.0-0.5	7301930	LL	8270D SIM	12/24/2013	PH139	5.6	10	85-68-7	BENZYL BUTYL PHTHALATE	190	U	64	190	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-845-NBZ-SB-0.0-0.5	12/4/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-545-NBZ-SB-0.0-0.5	7301930	LL	8270D SIM	12/24/2013	PH139	5.6	10	86-73-7	FLUORENE	18	U	7.1	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-845-NBZ-SB-0.0-0.5	12/4/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-545-NBZ-SB-0.0-0.5	7301930	LL	8270D SIM	12/24/2013	PH139	5.6	10	90-12-0	1-METHYLNAPHTHALENE	18	U	7.1	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-845-NBZ-SB-0.0-0.5	12/4/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-545-NBZ-SB-0.0-0.5	7301930	LL	8270D SIM	12/24/2013	PH139	5.6	10	91-20-3	NAPHTHALENE	18	UJ	7.1	18	ug/kg	U	UJ	FD	1787238.443	269060.427	-118.704858	34.237303
SL-845-NBZ-SB-0.0-0.5	12/4/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-545-NBZ-SB-0.0-0.5	7301930	LL	8270D SIM	12/24/2013	PH139	5.6	10	91-57-6	2-METHYLNAPHTHALENE	18	U	7.1	18	ug/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-845-NBZ-SB-0.0-0.5	12/4/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-545-NBZ-SB-0.0-0.5	7301930	LL	9012B	12/16/2013	PH139	5.6	1	57-12-5	CYANIDE	0.53	U	0.19	0.53	mg/kg	U			1787238.443	269060.427	-118.704858	34.237303
SL-845-NBZ-SB-0.0-0.5	12/4/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-545-NBZ-SB-0.0-0.5	7301930	LL	9045M	12/5/2013	PH139	5.6	1	pH	PH	7.06		0.0100	0.0100	pH unit				1787238.443	269060.427	-118.704858	34.237303
SL-825-NBZ-SB-4.0-5.0	12/5/2013	FD	4	5	ft	SO	NBZ_DG	SL-525-NBZ-SB-4.0-5.0	7306305	LL	160.3M	12/13/2013	PH140	2.6	1	MOIST	MOISTURE	2.6		0.10	0.10	%				1784865.478	267938.263	-118.712682	34.234174
SL-825-NBZ-SB-4.0-5.0	12/5/2013	FD	4	5	ft	SO	NBZ_DG	SL-525-NBZ-SB-4.0-5.0	7306305	LL	8015M	12/18/2013	PH140	2.6	1	PHCC12C14	EFH (C12-C14)	5.1	U	2.1	5.1	mg/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-825-NBZ-SB-4.0-5.0	12/5/2013	FD	4	5	ft	SO	NBZ_DG	SL-525-NBZ-SB-4.0-5.0	7306305	LL	8015M	12/18/2013	PH140	2.6	1	PHCC15C20	EFH (C15-C20)	5.1	U	2.1	5.1	mg/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-825-NBZ-SB-4.0-5.0	12/5/2013	FD	4	5	ft	SO	NBZ_DG	SL-525-NBZ-SB-4.0-5.0	7306305	LL	8015M	12/18/2013	PH140	2.6	1	PHCC21C30	EFH (C21-C30)	5.1	U	2.1	5.1	mg/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-825-NBZ-SB-4.0-5.0	12/5/2013	FD	4	5	ft	SO	NBZ_DG	SL-525-NBZ-SB-4.0-5.0	7306305	LL	8015M	12/18/2013	PH140	2.6	1	PHCC30C40	EFH (C30-C40)	10	U	4.1	10	mg/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-825-NBZ-SB-4.0-5.0	12/5/2013	FD	4	5	ft	SO	NBZ_DG	SL-525-NBZ-SB-4.0-5.0	7306305	LL	8015M	12/18/2013	PH140	2.6	1	PHCC8C11	EFH (C8-C11)	5.1	U	2.1	5.1	mg/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-825-NBZ-SB-4.0-5.0	12/5/2013	FD	4	5	ft	SO	NBZ_DG	SL-525-NBZ-SB-4.0-5.0	7306305	LL	8151A	12/16/2013	PH140	2.6	1	120-36-5	DICHLORPROP	17	U	9.2	17	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-825-NBZ-SB-4.0-5.0	12/5/2013	FD	4	5	ft	SO	NBZ_DG	SL-525-NBZ-SB-4.0-5.0	7306305	LL	8151A	12/16/2013	PH140	2.6	1	1918-00-9	DICAMBA	12	U	4.1	12	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-825-NBZ-SB-4.0-5.0	12/5/2013	FD	4	5	ft	SO	NBZ_DG	SL-525-NBZ-SB-4.0-5.0	7306305	LL	8151A	12/16/2013	PH140	2.6	1	75-99-0	2,2-DICHLOR0PROPIONIC ACID	92	U	45	92	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-825-NBZ-SB-4.0-5.0	12/5/2013	FD	4	5	ft	SO	NBZ_DG	SL-525-NBZ-SB-4.0-5.0	7306305	LL	8151A	12/16/2013	PH140	2.6	1	88-85-7	DINITROBUTYL PHENOL	25	U	9.2	25	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-825-NBZ-SB-4.0-5.0	12/5/2013	FD	4	5	ft	SO	NBZ_DG	SL-525-NBZ-SB-4.0-5.0	7306305	LL	8151A	12/16/2013	PH140	2.6	1	93-65-2	MCPP	2600	U	770	2600	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-825-NBZ-SB-4.0-5.0	12/5/2013	FD	4	5	ft	SO	NBZ_DG	SL-525-NBZ-SB-4.0-5.0	7306305	LL	8151A	12/16/2013	PH140	2.6	1	93-72-1	2,4,5-TP (Silvex)	1.7	U	0.77	1.7	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-825-NBZ-SB-4.0-5.0	12/5/2013	FD	4	5	ft	SO	NBZ_DG	SL-525-NBZ-SB-4.0-5.0	7306305	LL	8151A	12/16/2013	PH140	2.6	1	93-76-5	2,4,5-T	1.7	U	0.84	1.7	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-825-NBZ-SB-4.0-5.0	12/5/2013	FD	4	5	ft	SO	NBZ_DG	SL-525-NBZ-SB-4.0-5.0	7306305	LL	8151A	12/16/2013	PH140	2.6	1	94-74-6	MCPA (2-METHYL-4-CHLOROPHENOXYACETIC A	2600	U	780	2600	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-825-NBZ-SB-4.0-5.0	12/5/2013	FD	4	5	ft	SO	NBZ_DG	SL-525-NBZ-SB-4.0-5.0	7306305	LL	8151A	12/16/2013	PH140	2.6	1	94-75-7	2,4-D	37	U	12	37	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-825-NBZ-SB-4.0-5.0	12/5/2013	FD	4	5	ft	SO	NBZ_DG	SL-525-NBZ-SB-4.0-5.0	7306305	LL	8151A	12/16/2013	PH140	2.6	1	94-82-6	2,4-DB	17	U	10	17	ug/kg	U			1784865.478	267938.263	-118.712682	34.234174
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	160.3M	12/17/2013	PH142	5.4	1	MOIST	MOISTURE	5.4		0.10	0.10	%				1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	300.0	12/19/2013	PH142	5.4	1	14797-55-8	Nitrate-NO3	5.8	J	0.42	0.79	mg/kg		J	FD, Q	1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8015M	12/18/2013	PH142	5.4	1	PHCC12C14	EFH (C12-C14)	5.2	U	2.1	5.2	mg/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8015M	12/18/2013	PH142	5.4	1	PHCC15C20	EFH (C15-C20)	2.2	J	2.1	5.2	mg/kg	J	J	FD, Z	1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8015M	12/18/2013	PH142	5.4	1	PHCC21C30	EFH (C21-C30)	28	J	2.1	5.2	mg/kg		J	FD	1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8015M	12/18/2013	PH142	5.4	1	PHCC30C40	EFH (C30-C40)	50	J	4.2	10	mg/kg		J	FD	1783473.481	267912.36	-118.717287	34.234076

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8015M	12/18/2013	PH142	5.4	1	PHCC8C11	EFH (C8-C11)	5.2	U	2.1	5.2	mg/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	31	J	6.3	19	ug/kg		J	FD	1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	117-84-0	Di-n-octylphthalate	19	U	6.3	19	ug/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	120-12-7	ANTHRACENE	0.37	J	0.35	1.8	ug/kg	J	J	FD, Z	1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	129-00-0	PYRENE	4.7	J	0.70	1.8	ug/kg		J	FD	1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	131-11-3	DIMETHYL PHTHALATE	19	U	6.3	19	ug/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	191-24-2	BENZO(G,H,I)PERYLENE	1.6	J	0.70	1.8	ug/kg	J	J	FD, Z	1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	192-97-2	Benzo(e)pyrene	18	U	3.5	18	ug/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	193-39-5	INDENO(1,2,3-CD)PYRENE	1.1	J	0.70	1.8	ug/kg	J	J	FD, Z	1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	205-99-2	BENZO(B)FLUORANTHENE	5.7	J	0.70	1.8	ug/kg		J	FD	1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	206-44-0	FLUORANTHENE	4.1	J	0.70	1.8	ug/kg		J	FD	1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	207-08-9	BENZO(K)FLUORANTHENE	1.7	J	0.70	1.8	ug/kg	J	J	FD, Z	1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	208-96-8	ACENAPHTHYLENE	1.8	U	0.35	1.8	ug/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	218-01-9	Chrysene	5.4	J	0.35	1.8	ug/kg		J	FD	1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	50-32-8	BENZO(A)PYRENE	2.2	J	0.70	1.8	ug/kg		J	FD	1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.8	U	0.70	1.8	ug/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	56-55-3	BENZO(A)ANTHRACENE	1.7	J	0.70	1.8	ug/kg	J	J	FD, Z	1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.8	U	0.70	1.8	ug/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	83-32-9	ACENAPHTHENE	1.8	U	0.70	1.8	ug/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	84-66-2	DIETHYL PHTHALATE	19	U	6.3	19	ug/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	84-74-2	Di-n-butylphthalate	19	U	6.3	19	ug/kg	U			1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	85-01-8	PHENANTHRENE	3.3		0.70	1.8	ug/kg				1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	85-68-7	BENZYL BUTYL PHTHALATE	12	J	6.3	19	ug/kg	J	J	FD, Z	1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	86-73-7	FLUORENE	0.97	J	0.70	1.8	ug/kg	J	J	FD, Z	1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	90-12-0	1-METHYLNAPHTHALENE	1.2	J	0.70	1.8	ug/kg	J	J	FD, Z	1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	91-20-3	NAPHTHALENE	2.3		0.70	1.8	ug/kg				1783473.481	267912.36	-118.717287	34.234076
SL-824-NBZ-SB-0.0-0.5	12/9/2013	FD	0	0.5	ft	SO	NBZ_DG	SL-524-NBZ-SB-0.0-0.5	7307353	LL	8270D SIM	12/29/2013	PH142	5.4	1	91-57-6	2-METHYLNAPHTHALENE	1.4	J	0.70	1.8	ug/kg	J	J	Z	1783473.481	267912.36	-118.717287	34.234076
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	1024-57-3	HEPTACHLOR EPOXIDE	0.97	U	0.20	0.97	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	1031-07-8	ENDOSULFAN SULFATE	2	U	0.39	2.0	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	2385-85-5	MIREX	2	U	0.41	2.0	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	309-00-2	ALDRIN	0.97	U	0.20	0.97	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	319-84-6	ALPHA-BHC	0.97	U	0.20	0.97	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	319-85-7	BETA-BHC	2.2	U	1.1	2.2	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	319-86-8	DELTA-BHC	0.97	U	0.53	0.97	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	33213-65-9	ENDOSULFAN II	2	U	0.39	2.0	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	50-29-3	4,4'-DDT	1.3	J	0.41	2.0	ug/kg	J	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	53494-70-5	ENDRIN KETONE	2.1	U	0.70	2.1	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	57-74-9	CHLORDANE	20	U	4.7	20	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	58-89-9	gamma-BHC (Lindane)	0.97	U	0.44	0.97	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	60-57-1	DIELDRIN	2	UJ	0.39	2.0	ug/kg	U	UJ	FD	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	72-20-8	ENDRIN	2	UJ	0.39	2.0	ug/kg	U	UJ	FD	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	72-43-5	Methoxychlor	7.9	U	2.0	7.9	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	72-54-8	4,4'-DDD	2	U	0.39	2.0	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	72-55-9	4,4'-DDE	2	U	1.5	2.0	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	7421-93-4	ENDRIN ALDEHYDE	2	U	0.68	2.0	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	76-44-8	HEPTACHLOR	0.29	J	0.20	0.97	ug/kg	J	J	FD, Z	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	8001-35-2	Toxaphene	39	U	16	39	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8081B	12/19/2013	PH148	15.3	1	959-98-8	ENDOSULFAN I	0.97	U	0.26	0.97	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8151A	12/19/2013	PH148	15.3	1	120-36-5	DICHLORPROP	20	U	11	20	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8151A	12/19/2013	PH148	15.3	1	1918-00-9	DICAMBA	14	U	4.7	14	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8151A	12/19/2013	PH148	15.3	1	75-99-0	2,2-DICHLOR0PROPIONIC ACID	110	U	52	110	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8151A	12/19/2013	PH148	15.3	1	88-85-7	DINITROBUTYL PHENOL	28	U	11	28	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8151A	12/19/2013	PH148	15.3	1	93-65-2	MCPP	3000	U	890	3000	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8151A	12/19/2013	PH148	15.3	1	93-72-1	2,4,5-TP (Silvex)	2	UJ	0.89	2.0	ug/kg	U	UJ	FD	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8151A	12/19/2013	PH148	15.3	1	93-76-5	2,4,5-T	2.2	J	0.97	2.0	ug/kg		J	FD	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8151A	12/19/2013	PH148	15.3	1	94-74-6	MCPA (2-METHYL-4-CHLOROPHENOXYACETIC A(	3000	U	900	3000	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8151A	12/19/2013	PH148	15.3	1	94-75-7	2,4-D	43	U	14	43	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8151A	12/19/2013	PH148	15.3	1	94-82-6	2,4-DB	20	U	12	20	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	13	J	7.0	21	ug/kg	J	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	117-84-0	Di-n-octylphthalate	21	U	7.0	21	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	120-12-7	ANTHRACENE	0.46	J	0.39	1.9	ug/kg	J	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	129-00-0	PYRENE	2.8		0.78	1.9	ug/kg				1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	131-11-3	DIMETHYL PHTHALATE	21	U	7.0	21	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	191-24-2	BENZO(G,H,I)PERYLENE	1.3	J	0.78	1.9	ug/kg	J	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	192-97-2	Benzo(e)pyrene	20	U	3.9	20	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	193-39-5	INDENO(1,2,3-CD)PYRENE	0.85	J	0.78	1.9	ug/kg	J	J	FD, Z	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	205-99-2	BENZO(B)FLUORANTHENE	3.3		0.78	1.9	ug/kg				1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	206-44-0	FLUORANTHENE	3.1		0.78	1.9	ug/kg				1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	207-08-9	BENZO(K)FLUORANTHENE	1.2	J	0.78	1.9	ug/kg	J	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	208-96-8	ACENAPHTHYLENE	1.9	U	0.39	1.9	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	218-01-9	Chrysene	3.3		0.39	1.9	ug/kg				1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	50-32-8	BENZO(A)PYRENE	1.4	J	0.78	1.9	ug/kg	J	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	53-70-3	DIBENZO(A,H)ANTHRACENE	1.9	U	0.78	1.9	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	56-55-3	BENZO(A)ANTHRACENE	1.2	J	0.78	1.9	ug/kg	J	J	Z	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	62-75-9	METHANAMINE, N-METHYL-N-NITROSO	1.9	U	0.78	1.9	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	83-32-9	ACENAPHTHENE	1.9	U	0.78	1.9	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	84-66-2	DIETHYL PHTHALATE	21	U	7.0	21	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	84-74-2	Di-n-butylphthalate	21	U	7.0	21	ug/kg	U			1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	85-01-8	PHENANTHRENE	2.9		0.78	1.9	ug/kg				1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-

Master Chemical Database Table for Phase 3 - Northern Buffer Zone

Sample Name	Samle Date	Sample Type Code	Start Depth	End Depth	Depth Unit	Matrix Code	Task Code	Parent Sample Code	Lab Sample ID	Lab Name	Analytical Method	Analysis Date	Lab SDG	Percent Moisture	Dilution Factor	Cas RN	Chemical Name	Report Result Value	Final Qualifiers	Method Detection Limit	Reporting Detection Limit	Report Result Unit	Lab Qualifiers	DQM Qualifiers	DQM Remarks	X Coordinate	Y Coordinate	Longitude	Latitude
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	86-73-7	FLUORENE	5.5	J	0.78	1.9	ug/kg		J	FD	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	90-12-0	1-METHYLNAPHTHALENE	1.9	UJ	0.78	1.9	ug/kg	U	UJ	FD	1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	91-20-3	NAPHTHALENE	3.8		0.78	1.9	ug/kg				1786657.311	270658.372	-118.706817	34.241683
SL-840-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-540-NBZ-SB-0.0-0.5	7312457	LL	8270D SIM	12/31/2013	PH148	15.3	1	91-57-6	2-METHYLNAPHTHALENE	1.5	J	0.78	1.9	ug/kg	J	J	FD, Z	1786657.311	270658.372	-118.706817	34.241683
SL-844-NBZ-SB-0.0-0.5	######	FD	0	0.5	ft	SO	NBZ_DG	SL-544-NBZ-SB-0.0-0.5	7312466	LL	160.3M	12/18/2013	PH148	2.2	1	MOIST	MOISTURE	2.2		0.10	0.10	%				1787147.609	268982.757	-118.705156	34.237088

Appendix E
Field Sample Data Sheets and Boring Logs

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By [signature]

Sample ID SL-500-SA7-SB-00-0.5 Date/Time 4/17/13 @ 1445

Matrix (circle one): Soil (circled) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches Feet (circled)

Check If Composite ☐

Collection Method (circle one): DPT Slide Hammer (circled) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N (circled) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

[illegible]	[illegible]	[illegible]
Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

[illegible]	[illegible]	[illegible]
VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0

3. **Fill Description (circle all that apply)**

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel	(N/A)	
Other _____		

Is Staining Present Yes (No)

Color 10YR 3/4

Odor

1. **Odor Strength (circle one)**: (None) Slight Strong
2. **Odor Description (circle one)**: Organic Petroleum Chemical (N/A) Other _____

Moisture Condition (circle one): (Dry) Moist Wet

PG Signature Pamela Tarlan **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-500	Subarea: 7	Date Started: 4/17/13	Date Completed: 4/17/13
Client: DOE	Project Name/#: ~~SSFL-05258-63376.1203.002.223.02231.SSFH8~~ SM 1252		Total Depth: 2.6'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER.		Depth Drilled Into Bedrock: 1.6'
Radiological Background: 14 mrem/81 cm	Borehole diameter: 2.25"		
PID Background: 0.0 pm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	14/84	SL-500-SA703 0.0-.5	1445	SP	SAND - DARK YELLOWISH BROWN (10YR 3/4), 90% SAND, PG, FTOM GR. SR TO SA, 5% SILT, NON PLASTIC, 5% ORGANICS (DEAD PLANT LITTER), NO CEMENTATION, DRY, NO ODOR. 2" WEATHERED BEDROCK FRAGMENT @ 0.5' BGS. NO PLANT LITTER 0.5-1.0' BGS.
		0.0	13/96				
1.0		0.0	13/78				
						SP	SAND - LT. OLIVE BROWN (2.5Y 5/4), PG, FTOM GR. SR TO SA, TRACE SILT, NON-PLASTIC, NO TO WEAK CEMENTATION, DRY, NO ODOR. WEATHERED BEDROCK.
2.0		0.0	14/66				
		0.0	14/60				
3.0							REFUSAL @ 2.6', 2.5' BGS

Pancake Hunter 9048

CDM Smith

BORING LOG AND SAMPLING RECORD

Page 1 of 1

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	md: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. GL

Sample ID SL-501-SA7-SB-0.0-0.5 Date/Time 4/17/13 @ 1400

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** (0)
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 4/4

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-501	Subarea: 7	Date Started: 4/17/13	Date Completed: 4/17/13
Client: DOE	Project Name/#: ~~SSFL-65288-83376.1203.002.223.92234.SSFHS~~ SM 12512		Total Depth: 1.0
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled Into Bedrock: 0.0
Radiological Background: 15mem/12.4cm	Borehole diameter: 2.25"		
PID Background: 0.1 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5	0.1	[illegible]	SC-501-[illegible]	1400	SX	SILTY SAND - DARK YELLOWISH BROWN (10YR 4/4), 80% SAND, PD, F.G., 20% SILT, LOW PLASTICITY, NO CEMENTATION DRY, MOI.
	0.5	0.1	14/72				
1.0	0.5/1.0	0.1	14/90				TRACE YELLOW SAND 0.4-1.0' BGS
2.0							

Pamela Hankins 9045

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-502-SA7-SB-0.0-0.5 Date/Time 4/17/13 @ 1325

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** (0)
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 4/4

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Paula Hankle **PG Registration #** 9045

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-502	Subarea: 7	Date Started: 4/17/13	Date Completed: 4/17/13
Client: DOE	Project Name/#: ~~SSFL-05258-03376.4203.002.223.02234.SSFH8~~ SM 1512		Total Depth: 0.7'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 0.2'
Radiological Background: 15 mrem / 95 cm	Borehole diameter: 2.25"		
PID Background: 0.2 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.2	14/108	SL-502-SA7-SB-0.0 0.5	1325	SM	SILTY SAND - DARK YELLOWISH BROWN (10YR 4/4), 80% SAND, PG, FGR, 20% SILT, CONPLASTICITY, NO CEMENTATION, DRY, NO ODOR.
	0.5/0.2	0.2	15/66			SP	SAND - LT YELLOWISH BROWN (2.5Y 6/4), PG, F TO MGR, WEATHERED SAND STONE, DRY.
1.0							REFUSAL @ 0.6', 0.7'
2.0							

Pamela Hunter 9045

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: STEVEN MERCER

Sample ID: SL-503-SA7-SB-0.0-0.5 Date/Time: 4/22/13 @ 1045

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: N/A

Field Geologist: MARK PETERS

Sampler: STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	X (NO4W)
Pesticides	EPA 8081	X

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 3/2

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID:	Subarea:	Date Started:	Date Completed:
DO-508	7	4/22/13	4/22/13

Client: DOE	Project Name/#: ~~GRPL-66208-03376.1203.002.223.02231.SSPR3~~ PB	Total Depth: 1.2'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A	
GPS collected? (Yes) or No	Drill Method: HAND AUGER	Depth Drilled Into Bedrock: 0.0
Radiological Background: 17mrem / 107cpm	Borehole diameter: 2.25"	
PID Background: 0.0 ppm	Depth to GW: N/A	Sampling Method: SCOOP HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:	Geologist: MARK ADAMS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1.0		0.0 0.0 0.0	11/54 5/60 17/78	SL-508-SS7-SB-0.0-0.5	1045	SP	SAND - DK BROWN (10YR 3/2), 95% SAND, FINE-GR, PG, SR, TOSA, 5% SILT, NON PLASTIC, TRACE ROOTS, NO CEMENTATION, DRY, NO ODOR. TRACE LIGHT OLIVE BROWN (2.5Y 5/4) SAND 1.0-1.2'
2.0							REFUSAL @ 1.2' BGS (2Y)

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: STEVEN MERCER

Sample ID: SC-504-SA7-SB-0.0-0.5 Date/Time: 4/22/13 @ 1250

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: N/A

Field Geologist: MARK PETERS.

Sampler: STEVE MERCER.

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	X

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel		(N/A)
Other _____		

Is Staining Present Yes (No)

Color 2.5Y 5/4

Odor

1. **Odor Strength (circle one)**: (None) Slight Strong
2. **Odor Description (circle one)**: Organic Petroleum Chemical (N/A) Other _____

Moisture Condition (circle one): (Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-504	Subarea: 7	Date Started: 4/22/13	Date Completed: 4/22/13
Client: DOE	Project Name/#: ~~SSFL-05258-03370.1203.002.223.02231.33PH3~~ PB		Total Depth: 5.0
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 0.0
Radiological Background: 14 mrem/90 cpm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER/HAND AUGER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0	15/74	SL-504-SA7-SR 0.0-0.5	1250	SP	SAND - LIGHT OLIVE BROWN (2.5Y 5/4), PG, F TO M GR., T. C. GR., SR TO SA, TRACE SILT, NON PLASTIC, TRACE ROOTS, NO TO WEAK CEMENTATION, DRY, NO ODOR.
	—	0.0	13/72				
1.0		0.0	14/66				0.5-1.0 ~~5%~~ 10 gm/m. 5% OF MATRIX IS WEAKLY CEMENTED ~~STRONG~~ BROWN (7.5YR 4/4) SILTY SAND.
2.0		0.0	13/54			SM	SAND WITH SILT - BROWN (7.5YR 4/4), 85% SAND, PG, F TO M GR. T. C. GR., 15% SILT, LOW PLASTICITY, NO TO WEAK CEMENTATION, DRY, NO ODOR.
3.0		0.0	13/102			SP	SAND - LIGHT OLIVE BROWN (2.5Y 5/6), 95% SAND, PG, F TO M GR., T. C. GR., SR TO SA, 5% SILT, NON PLASTIC, DRY TO MOIST, NO ODOR
4.0		0.0	13/72	SL-504 SA7-SR 0.0-0.5 4.0-5.0	1355	SM	SILTY SAND ~~10YR~~ (MOIST) DARK BROWN (10YR 3/3), 80% SAND, PG, F TO M GR., SR TO SA, 20% SILT, LOW PLASTICITY, NO CEMENTATION, DRY TO MOIST, NO ODOR. 5% OF MATRIX IS WEAKLY CEMENTED SANDSTONE CLASTS.
5.0		0.0	13/76				

E.O.B. @ 5.0' - NO REFUSAL

Pamela Halm 9045

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: STEVEN MERCER

Sample ID: SL-504-SA7-SB-4.0-5.0 Date/Time: 4/22/13 @ 1355

Matrix (circle one): (Soil) Sediment Water

Start Depth: 4.0

End Depth: 5.0

Depth Units (circle one): Inches (Feet)

Check if Composite: ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: N/A

Field Geologist: MARK PETERS

Sampler: STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	X

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 3/3

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: STEVEN MERCER

Sample ID: SL-505-SA7-SB-0.0-0.5 Date/Time: 4/17/13 @ 1110

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: N/A

Field Geologist: MARK PETERS

Sampler: STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 2.5Y 5/4

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-505	Subarea: 7	Date Started:	Date Completed: 4/17/13
Client: DOE	Project Name/#: ~~SSFL-05258-03370.1203.002.223.02231.SSPH3~~ SM 12512		Total Depth: 2.8
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 2.2
Radiological Background: Barren/100 CPM	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0	14/61	SL-505	1110	SP-SM	SAND WITH SILT - LIGHT OLIVE BROWN (2.5Y 5/4), 90% SAND, PG, FGR, 10% SILT, NON-PLASTIC, TRACE F GRAVEL, SR, NO CEMENTATION, DRY, NO ODOR.
		0.0	13/102	SA-SB 0.0-2.5			
1.0	0.5/0.5	0.0	14/60			SP	SAND - LT. OLIVE BROWN (2.5Y 5/4), PG, F TO MGR, T.C.GR, T.F. GRAVEL, SR TO SR, NO TO MODERATE CEMENTATION, DRY TO MOIST, NO ODOR. WEATHERED SAND STONE
2.0		0.0	13/54				
		0.0	13/54				
3.0							REFUSAL @ 2.8', 0.6' BGS

Pamela Hartin 9/15

CDM Smith

BORING LOG AND SAMPLING RECORD

Page 1 of 1

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By 4/25/13 @ 1110 STEVEN MERCER SM 4/25/13

Sample ID SL-506-SA7-SB-0.0-0.5 Date/Time 4/25/13 @ 1110

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) 0

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 3/3

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Mike Hoffman PG Registration # 7735

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-506	Subarea: 7	Date Started: 4/25/13	Date Completed: 4/25/13
Client: DOE	Project Name/#: ~~SSFL-65258-83376.1203.002.223.02221.SSFH3~~ PB		Total Depth: 0.7
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled Into Bedrock: 0.0
Radiological Background: 1km / 80 cpm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.4 / 0.5	0.0 / 0.0	16/74 / 16/48	SL-506-SA7-SB-0.0-0.5	1110	SM	SILTY SAND - DK BROWN (10YR 3/3), 75% SAND, FG, FGR. 20% SILT, LOW PLASTICITY, 5% F. TO C. GRAVEL, SR TO SA. T. ROOTS, NO CEMENTATION, DRY, NO ODOR.
1.0							REFUSAL @ 0.6', 0.7' BGS
2.0							

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. G F

Sample ID SL-507-SA7-SB-0.0-0.5 Date/Time 4/24/13@ 1505

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP (circled)	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 4/3

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID:	Subarea:	Date Started:	Date Completed:
DG-507	7	4/24/13	4/25/13

Client: DOE	Project Name/#: ~~SSFL-66258-69878.1203.002.223.02201.38PH3~~ PB	Total Depth: 0.9
Company Name: CDM SMITH	Drill Contractor/Driller: N/A	
GPS collected? (Yes) or No	Drill Method: HAND AUGER	Depth Drilled into Bedrock: 0.5
Radiological Background: 15 mR/hr / 5K cpm	Borehole diameter: 2.25"	
PID Background: 0.0 ppm	Depth to GW: N/A	Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:	Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0	0.5/0.5	0.0	15 K	SL-507-SA156-0.0-0.5	1305	SP	SAND - BROWN (10YR 4/3), 90% SAND, FG, F TO MED, SR TO SR, 5% SILT, NON-PLASTIC, 5% ROOTS, NO CEMENTATION, DRY, NO ODOR.
	—	0.0	15 K			SP	SAND: YELLOWISH BROWN (10YR 5/4), 95% SAND, VG, F TO MED, SR TO SA, 5% SILT, NON-PLASTIC, NO TO MODERATE CEMENTATION, DRY, NO ODOR.
1.0		0.0	~~15 K~~ (BKG 4/24)	~~SL-507-SA156-0.0-0.5~~			REFUSAL @ 0.9' BGS (2")
2.0							

Pamela Hunt 9048

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: STEVEN MERCER

Sample ID: SL-508-SA7-SB-0.0-0.5 Date/Time: 4/25/13 @ 1320

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: N/A

Field Geologist: MARK PETERS

Sampler: STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present (Yes) No
2. Percentage Fill (%) TRACE (<5%)
3. Fill Description (circle all that apply)

Asphalt	(Metal)	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel		N/A
Other _____		

Is Staining Present Yes (No)

Color ~~10YR 4/(2)~~ 2.5Y 4/4

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID:	Subarea:	Date Started:	Date Completed:
DG-508	7	4/25/13	4/25/13

Client: DOE	Project Name/#: ~~SSFL-65258-69576.4200.002.223.02201.03PH3~~ AB	Total Depth: 1.0
Company Name: CDM SMITH	Drill Contractor/Driller: N/A	
GPS collected? Yes or No	Drill Method: HAND AUGER	Depth Drilled into Bedrock: 0.0
Radiological Background: 14/180 / 13/64	Borehole diameter: 2.25"	
PID Background: 0.0 ppm	Depth to GW: N/A	Sampling Method: SCOOP & HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:	Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (uR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1.0	0.5/0.5/0.1	0.0 / 0.0 / 0.0	14/180 / 13/64 / 5/72	SV-508 SOIL GR 0.0-0.5	1320	SP	SAND - OLIVE BROWN (2.5Y 4/4), 95% SAND, FG, F TO MGR, T. C. GR., SR TO SA, 5% SILT, NON-PLASTIC, TRACE ROOTS, NO CEMENTATION, DRY, NO ODOR. TRACE FCL (METAL HOSE CLAMP)
2.0							REFUSAL @ 1.0', 0.8' BGS

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. G 2

Sample ID SL-509-SA7-SB-0.0-0.5 Date/Time 4/25/13 @ 1040

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** (0)
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present (Yes) No

Color 10YR 4/4

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-509	Subarea: 7	Date Started: 4/25/13	Date Completed: 4/25/13
Client: DOE	Project Name/#: ~~SSFL-65258-63376.1203.002.223.02234.SSPH3~~ PB		Total Depth: 1.4
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled Into Bedrock: 0.6
Radiological Background: 15 mrem/76 cpm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.4/0.25	0.0	15/82	SC-509 SAT-SB 0.0-0.5	1040	SP	SAND DK YELLOWISH BROWN (10YR 4/4) 95% SAND, PG, FTOMGR, SR TOSA, 5% SILT, NON-PLASTIC, 5% ROOTS/BRANCH FRAGMENTS, T.F. GRAVEL, NO TO WEAK CEMENTATION, DRY, NO ODOR.
	—	0.0	15/90				
1.0	0.4/0.5	0.0	10/60			SP	SAND - LIGHT OLIVE BROWN (2.5Y 5/6), PG, FTOMGR, T.C. GR., SR TOSA, NO TO WEAK CEMENTATION, DRY, NO ODOR WEATHERED SANDSTONE.
2.0							REFUSAL @ 1.4', 1.3' BGS.

Mike Hoffman #7735

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: STEVEN MERCER

Sample ID: SL-510-SA7-SB-0.0-0.5 MS Date/Time: 4/22/13 0845

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: N/A

Field Geologist: MARK PETERS

Sampler: STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	X

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No
2. Percentage Fill (%) 0
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color ~~10 YR~~ 2.5Y 6/6

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID:	Subarea:	Date Started:	Date Completed:
SS-S10	7	4/22/13	4/22/13

Client: DOE	Project Name/#: ~~GSFL-05258-03378.1203.002.223.02231.SSPHS~~ PB	Total Depth: 1.2'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A	
GPS collected? (Yes) or No	Drill Method: HAND AUGER	Depth Drilled into Bedrock: 0.4'
Radiological Background: 15 mrem/75 cm	Borehole diameter: 2.25"	
PID Background: 0.0 ppm	Depth to GW: N/A	Sampling Method: SLIDEHAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:	Geologist MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0	0.4/0.5	0.0	15/94	SS-S10-SA7-SB-0.0-0.5 MS	0845	SM/SP	SAND WITH SILT - OLIVE YELLOW (2.5Y 6/6), 85% SAND, PG, FTO MED, T. C GR., SR TO SA, 15% SILT, LOW PLASTICITY, NO TO WEAK CEMENTATION, NO ODOR, DRY.
1.0	0.4/0.5	0.0	15/84				
		0.0	14/80	SS-S10-SA7-SB-0.5-1.0	0850	SP	SAND - LIGHT OLIVE BROWN (2.5Y 5/6), PG, FTO CR, SR TO SA, T F. GRAVEL, T. SILT, NON-PLASTIC, NO TO WEAK CEMENTATION, MODERATE CEMENTATION 1.1 - 1.2' BGS DRY, NO ODOR.
2.0							REFUSAL @ 1.2' BGS, 0.9' BGS

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SC-810-SA7-SB-0.0-0.5 Date/Time 4/22/13 @ 0850

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) (FD) FB RB

Parent Sample ID SC-510-SA7-SB-0.0-0.5 MS

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	X

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No
2. Percentage Fill (%) 0
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color 25Y 6/6

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] **PG Registration #** 9048

Additional Comments N/A

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SC-SII-SA7-SB-0.0-0.5 Date/Time 4/19/13 @ 1105

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	X

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)

2. **Percentage Fill (%)** 0

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 3/4

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Pamela Hale **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-511	Subarea: 7	Date Started: 4/19/13	Date Completed: 4/19/13
Client: DOE	Project Name/#: ~~SSFL-05208-03376.1203.002.226.02284.SSPH3~~ SM 12516		Total Depth: 1.4'
Company Name: CDM SMITH	Drill Contractor/Driller:		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled Into Bedrock: 0.7'
Radiological Background: 14nm/75cm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SCIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5 —	0.0 0.0	14/103 13/72	SC-511-SA7-SB-0.0-0.5	1105	SA SM	SAND WITH SILT. DARK YELLOWISH BROWN (10YR 3/4), PG, F TO M GR, T.C.GR, SR TO SA, 100% SILT, NON-PLASTIC T.F. SA GRAVEL. NO CEMENTATION, DRY, NO ODOR
1.0		0.0	14/84			SP	SAND-YELLOWISH BROWN (10YR 5/6), PG, F TO M GR, T.C.GR, SR TO SA, ~~T.F. GRAVEL~~ N4/18 T. SILT, NON PLASTIC, NO TO WEAK CEMENTATION, DRY, NO ODOR. TRACE GRAVEL SIZED CONCRETE AND BRICK FRAGMENTS.
2.0							REFUSAL @ 1.4'; 1.3' BGS

Pancho Hatter 9048

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. Cyr

Sample ID SL-S12-SA7-SB-0.0-0.5 Date/Time 4/23/13 @ 1135

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes No

Color 10 YR 4/4

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Paul Wolin **PG Registration #** 9075

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG512	Subarea: 7	Date Started: 4/23/13	Date Completed: 4/23/13
Client: DOE	Project Name/#: ~~SSFL-65258-63376.1203.002.223.02231.SSPIII~~		Total Depth: 3.0
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 2.6
Radiological Background: 14mm/15cpm	Borehole diameter: 2.25"		
PID Background: 0.1 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.1 0.1 0.3	15/96 15/60 15/130	SL-512-SM7-53-0.0-0.5	1135	SP	95% SAND (or ...) SAND - DARK YELLOWISH BROWN (10YR 4/4), PG, F TO M GR, SR TO SA, 5% SILT, NON-PLASTIC, NO TO WEAK CEMENTATION, DRY, NO ODOR.
1.0						SP	SAND - LIGHT OLIVE BROWN (2.5Y 5/6), PG, F TO M GR, SR TO SA, T. SILT, NON-PLASTIC, NO TO STRONG CEMENTATION, DRY TO MOIST, NO ODOR. WEAK HERED SANDSTONE
2.0		0.2	15/78				
3.0		0.1	15/60				
4.0							REFUSAL @ 2.6', 3.0'

Pamela Hart 9045

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By J. Gtz

Sample ID ~~SL-8~~ SL-513-SA7-SB-0.0-0.5 MS Date/Time 6-4-13 0830

Matrix (circle one): Soil (circled) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches Feet (circled)

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer (circled) ~~Hand Auger/Slide Hammer~~ Trenching Sediment

QC Type (circle one): N (circled) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Vidal Cortes

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

6 slide hammer sleeves & 1 9.0z jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No

2. Percentage Fill (%) None

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color yel brn (10YR 5/4) mottled w/ dk brn (10YR 3/3) & brn yel (10YR 6/6)

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] PG Registration # 7735

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-513	Subarea: 7	Date Started: 6-4-13	Date Completed:
Client: DOE	Project Name/#: ~~SSFL-05258-83376.1203.002.223.02231.SSPH3~~ SM 10512		Total Depth: 1st HA = 1.7 2nd HA = 1.2
Company Name: CDM SMITH	Drill Contractor/Driller: Strongarm		
GPS collected? Yes or No	Drill Method: Handauger		Depth Drilled into Bedrock: NA
Radiological Background: γ = 14 αβ = 81	Borehole diameter: 2.75"		
PID Background: 0.0	Depth to GW: NA		Sampling Method: DPT Sleeves
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: [signature] #7735		Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
SAMPLE 0.0-0.5	0.5/0.5	0.0	14/85	SL-513 SA7-SB 0.0-0.5MS	0830	SP	SAND, yel brn (10YR 5/4) mottled w/ dk brn (10YR 3/3) & brn yel (10YR 6/6), f-m grn, mod pg, sr to sa, quartz, dry, loose tr to few coarse grn, tr ant f gravel sr to sa, tr ant mod well to well consolidated sandstone gravel, some org (roots) 1.0
		0.0	14/78				
1		0.0	14/66	SL-913 SA7-SB 0.0-0.5	0845		
		0.0	14/78			SP/SM	SAND with SILT, yel brn (10YR 5/4) mottled w/ brn yel (10YR 6/6) f-m grn, mod pg, sr to sa, quartz, dry, tr to few ant f gravel sa to angular, sdstn, tr org (roots), ~10% silt 1.7

Refusals @ 1.7 & 1.2

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. GF

Sample ID SL-913-SA7-SB-0.0-05 Date/Time 6-4-13 0845

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Vidal Cortes

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Soil	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

2 slide hammer sleeves & 1 4oz jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No
2. Percentage Fill (%) None
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color yel brn (10YR 5/4) mottled w/dk brn (10YR 3/3) & brn yel (10YR 6/6)

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments _____

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. Gtz

Sample ID SL-514-SA7-SB-0.0-0.5 Date/Time 6-6-13 / 0855

Matrix (circle one): Soil (circled) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches Feet (circled)

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer (circled) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N (circled) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Vidal Cortes

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

2 slide hammer sleeves & 1 4oz jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt (gravel)
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** (Yes) No
2. **Percentage Fill (%)** 30
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic (Gravel) N/A

Other _____

Is Staining Present Yes (No)

Color dk yel brn (10YR 4/4) mottled w/ yel brn (10YR 5/6)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments _____

NA – Not Applicable

20
10

Location ID: DG-514	Subarea: 7	Date Started: 6-6-13	Date Completed: →
Client: DOE	Project Name/#: ~~SOFL-05263-0307G.1205.002.220.00231.SSPH2~~ SM 10512		Total Depth: 1st HA = 1.9 2nd HA = 1.6
Company Name: CDM SMITH	Drill Contractor/Driller: Strongarm		
GPS collected? (Yes) or No	Drill Method: Hand auger		Depth Drilled into Bedrock: NA
Radiological Background: 8=14 4B=99	Borehole diameter: 2.75		
PID Background: 00	Depth to GW: NA		Sampling Method: Slidehammer
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	~~PC~~ Review & No.: [signature], 7735		Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
SAMPLE 0.0-0.5	0.5/0.5	0.0	14/102	SL-514	085350	SM	WET SAND with SILT & GRAVEL, dk yel brn (10YR 4/4) mottled w/ yel brn (10YR 5/6) fgm, pg, sr to sa, quartz, some silty sand nodules - sli consolidated, hard, friable, dry, tr amt coarse sd, ~30% gravel - sa to angular, ~10% silt 0.5
		0.0	14/72	SA7-SB 0.0-0.5		SM	
	HA	0.0	14/66			SM	SILTY SAND with yel brn (10YR 5/6) mottled w/ brn (10YR 4/3) fgm w/tr. med & coarse gm, pg, sr to sa, quartz, tr to few silty sand nodules, friable, dry, 20% silt, tr amt gravel, tr amt org (roots) 1.9
		00	14/78				

CDM Smith **BORING LOG AND SAMPLING RECORD** Page 1 of 1

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. GT

Sample ID SL-515-SA7-SB-0.0-0.5 **Date/Time** 6-6-13/0915

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Vidal Cortes

Analysis

Parameters	Method	Analyze?
Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	X

Parameters	Method	Analyze?
VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

2 slidehammer sleeves + 1 4oz jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present (Yes) (No) DPK
2. Percentage Fill (%) None DPK <5%

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Roadbase Gravel N/A

Other _____

Is Staining Present Yes (No)

Color brn (10YR 5/3) mottled w/ yelbrn (10YR 5/6)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments 10% Gravel present as weathered sandstone primarily

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-515	Subarea: 7	Date Started: 6-6-13	Date Completed: →
Client: DOE	Project Name/#: ~~SSFL-65258-83376.1200.002.223.02261.GSPH0~~ SM 12512		Total Depth: 1st HA = 0.3 2nd HA = 0.3
Company Name: CDM SMITH	Drill Contractor/Driller: Strong arm		
GPS collected? Yes or No	Drill Method: Hand auger		Depth Drilled into Bedrock: NA
Radiological Background: Y = 14 αβ = 90	Borehole diameter: 2.75		
PID Background: 0.0	Depth to GW: NA		Sampling Method: Slide hammer
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: [signature] 7735		Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0 0.0	14/105 14/66	SL-515 SA7-SB 0.0-0.5	0915	SP	SAND, brn (10YR5/3) mottled w/ yel brn (10YR5/6), f gr, pg, sr to sa, quartz, loose grading to well consolidated, 10% gravel primarily weathered sandstone, * <5% silt, dry, tr to few org (roots) <5% road base gravel 0.3
							Refusal @ 0.3' & 0.3' bls

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: V. Cortez

Sample ID: SL-516-SA7-SB-0.0-0.5 Date/Time: 6-4-13 0955

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite: ☐

Collection Method (circle one): (DPT) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: NA

Field Geologist: David Rojas

Sampler: Vidal Cortes

Analysis

	Parameters	Method	Analyze?
Metals	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Explosives	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Pesticides	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

2 DPT SS Sleeves & 1 4-oz jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				(SP)	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)

2. Percentage Fill (%) NONE

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color yel brn (10YR 5/6)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-516	Subarea: 7	Date Started: 6-4-13	Date Completed:
Client: DOE	Project Name/#: ~~SSFL-65258-83378.4203.002.223.03231.SSPH3~~ SM 1251a		Total Depth: Ceased Advancement @ 5.0'
Company Name: CDM SMITH	Drill Contractor/Driller: Strongarm		
GPS collected? Yes or No	Drill Method: Sleeves DPT		Depth Drilled Into Bedrock: NA
Radiological Background: 8-14 αβ: 83	Borehole diameter: 2.25"		
PID Background: 0.0	Depth to GW: NA		Sampling Method: DPT sleeves
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No: [signature] #7735		Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
SAMPLE 0.0-0.5	0.5/0.5	0.0 0.0	14/99 10/72	SL-516 SA7-SB 0.0-0.5	0955	SP	SAND, yel brn (10YR 5/6) f gn tr med gn, pg, sr to sa, quartz, dry, loose, tr f gravel, sa-angular, <5% silt, tr to few poorly to mod consolidated — 0.5'
1							SAND, dk yel brn (10YR 4/4) mottled w/ brn (10YR 5/3) f-m gn, pg, sr to sa, quartz, dry, sli mod consolidated, friable, tr to few coarse gm sr to sa to sli moist
2	2.5/3.5						
3							
4							VOID - possible concrete vault or pipe — 5
							Ceased advancement of boring due to suspected concrete vault or pipe

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	φ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. C

Sample ID SL-516-SA7-SB-0.0-0.5M Date/Time 6-4-13 1035

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Vidal Cortes

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Soil	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

Sample not submitted to lab. Original location submitted instead.

NA – Not Applicable

Submitted 000413

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ± 5% FINES		GW	Wet-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ± 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No
2. Percentage Fill (%) NONE
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color Holive brn (2.5Y 5/4) mottled w/ Hyel brn (2.5Y 6/3)

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] PG Registration # 7735

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG 516 M	Subarea: 7	Date Started: 6-4-13	Date Completed:
Client: DOE	Project Name/#: ~~SSFL-05255-05376.1203.002.220.02231.GSPH0~~ SM 12512		Total Depth: 3'
Company Name: CDM SMITH	Drill Contractor/Driller: Strongarm		
GPS collected? Yes or No	Drill Method: Handauger		Depth Drilled Into Bedrock: NA
Radiological Background:	Borehole diameter: 2.75"		
PID Background: 0.0	Depth to GW: NA		Sampling Method: Slide hammer
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: Mike Hoffman #7755		Geologist: David Rojas

Depth (feet) bgs	~~Recovery (feet)~~ PID	~~PID (ppm)~~ RAD	~~Radiological (µR/cpm)~~ TEC	Sample Name	Sample Time	USCS	Description of Materials
SAMPLE 0.0-0.5	0.0		0.5/0.5	SL-516 SA7-S8 0.0-0.5M	1035	SP	SAND, lt olive brn (2.5Y 5/4) mottled w/ lt yel brn (2.5Y 6/3) f grn to med grn, sr to sa quartz, tr to few mod well consolidated weathered sandstone fine gravel dry, <5% silt
	0.0	12/102					
1	0.0	12/90	HA				
2	0.0	12/84				SP	SAND, dk yel brn (10YR 4/4) mottled w/ brn (10YR 5/3) f grn to med grn, sr to sa, quartz, some mod well to well consolidated weathered sandstone fine gravel and silty sand nodules that are sli friable dry to sli moist
3	0.0	12/78					Cement slurry material - mod well consolidated - sli friable

Ceased advancement of boring due to presence of possible subsurface obstruction

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. Gt

Sample ID SL-517-SA7-SS-0.0-0.5 Date/Time 7/22/13 1450

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel	(N/A)	
Other		

Is Staining Present Yes (No)

Color 10YR 4/4

Odor

1. **Odor Strength (circle one)**: (None) Slight Strong
2. **Odor Description (circle one)**: Organic Petroleum Chemical (N/A) Other

Moisture Condition (circle one): (Dry) Moist Wet

PG Signature [signature] **PG Registration #** 9045

Additional Comments NAD

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID:	Subarea:	Date Started:	Date Completed:
DG-517	7	4/22/13	4/22/13

Client: DOE	Project Name/#: ~~SSFL-05208-033T0-1203.002.223.02204.03PH13~~ PB	Total Depth: 2.9
Company Name: CDM SMITH	Drill Contractor/Driller: N/A	
GPS collected? (Yes) or No	Drill Method: HAND AUGER.	Depth Drilled into Bedrock: 2.4
Radiological Background: ~~Gross~~ Direct Reading	Borehole diameter: 2.25"	
PID Background: 0.6 ppm	Depth to GW: N/A	Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:	Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0	~~1/12~~ 14/16	SC-517 SA-SS-0.0-2.5	1450	SP-SM	SAND WITH SILT- DK. YELLOWISH BROWN (10YR4/4), 90% SAND, VG, F TO MG, SR TO SA, 10% SILT, NON-PLASTIC, TR F. GRAVEL, DRY, NO ODOR
	0.5/0.5	0.0	13/18				
1.0		0.1	15/16				SAND- LIGHT OLIVE BROWN (2.5Y5/3), PG, F TO MG, SR TO SA, TRACE SILT, NON-PLASTIC, DRY TO MOIST, NO ODOR, NO TO MODERATE CEMENTATION
2.0		0.1	14/18				
							~~REFUSAL @ 2'~~ NO
3.0		0.1	13/64				

REFUSAL @ 2.9', 0.6' BGS.

Pamela Herd 4/22/13

CDM Smith **BORING LOG AND SAMPLING RECORD** Page 1 of 1

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-SI8-SA7-SB-00-0.5

Date/Time 4/19/13 4/18/13 @ 0850 SM 4/19/13

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** (0)
3. **Fill Description (circle all that apply)**

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel	(N/A)	
Other _____		

Is Staining Present Yes (No)

Color 10YR 4/4

Odor

1. **Odor Strength (circle one)**: (None) Slight Strong
2. **Odor Description (circle one)**: Organic Petroleum Chemical (N/A) Other _____

Moisture Condition (circle one): (Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-518	Subarea: 7	Date Started: 4/19/13	Date Completed: 4/19/13
Client: DOE	Project Name/#: ~~SSFL-05258-63376.4200.002.023.02234.GSFH3~~ SM 12S12		Total Depth: 0.6
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER.		Depth Drilled Into Bedrock: 0.0
Radiological Background: 13 mm/65 cm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm.	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0	13/92	SC-518-SA7-S3-0.0-0.5	0850	SM	SILTY SAND. DARK YELLOWISH BROWN (10YR 4/4), 80% SAND, PG, F TO MED, SR TO SA., 20% SILT, LOW PLASTICITY, T. F. GRAVEL SIZED WEAKLY CEMENTED SANDSTONE CLASTS, NO ODOR, DRY.
	—	0.0	13/48				
1.0							REFUSAL @ 0.6', 0.5'
2.0							

Pamela Hartman 9045

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-519-SA7-SB-0.0-0.5 MS **Date/Time** 4/25/13 @ 0845

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) 0
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 2/2

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ PG Registration # 7735

Additional Comments _____

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-819-SA7-SB-0.0-0.5 Date/Time 4/25/13 @ 0850

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N (FD) FB RB

Parent Sample ID SL-519-SA7-SB-0.0-0.5 MS

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 2/2

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments _____

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-B19-SA7-SB-2.0-3.0' Date/Time 4/25/13 @ 0950

Matrix (circle one): (Soil) Sediment Water

Start Depth 2.0

End Depth 3.0

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color ~~10YR 3/2~~ 2.5Y 5/6 SM 4/25/13

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments COLLECTED ONE 80% GAS INSTEAD OF SECOND SLEEVE FOR NON-VOLATILE CONSTITUENTS DUE TO POOR SLEEVE RECOVERY 16 SM 4/25/13

NM 4/25/13

Santa Susana Field Laboratory/94489

Location ID: DG-519	Subarea: 7	Date Started: 4/25/13	Date Completed: 4/25/13
Client: DOE	Project Name/#: ~~SSFL-05258-03376.1203.002.223.02231.SSPH5~~ PE		Total Depth: 2.2.8
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled Into Bedrock: 0.0
Radiological Background: 15 mrem/69 cpm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER/HAND AUGER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0	15/67	SL-519-SA7-SB-0.0-0.5 MS	0845	SP	SAND - VERY DK. BROWN (10YR 2/2), 95% SAND, FG, F TO M GR, SR TO SA, 5% SILT, NON PLASTIC, TRACE ROOTS, NO CEMENTATION, DRY, NO ODOR, GRADING TO DARK BROWN (10YR 3/3), 0.5-1' BGS.
	0.5/	0.0	15/72				
1.0		0.0	15/78	SL-519-SA7-SB-0.0-0.5	0850		
2.0	0.5/0.5	0.1	15/90				(MP 4/25)
	0.5/0.5	8.0	15/54	SL-519 SA7-SB 2.0-3.0	0950	SP (MP 4/25)	SAND - LIGHT OLIVE BROWN (2.5Y 5/6), APPX. 20% OF MATRIX (SEAMS OR LENSES D2.63-2.8' BGS.)
3.0							

REFUSAL @ 2.5, 2.8' BGS

Nila Hoffman #7735

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	φ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By J.G.

Sample ID SC-520-SA7-SB-0.0-0.5 Date/Time 4/19/15 @ 0950

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID ~~SC-520-SA7-SB-0.0-0.5~~ (or 4/15) N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 5/4

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-520	Subarea: 7	Date Started: 4/19/13	Date Completed: 4/19/13
Client: DOE	Project Name/#: ~~GSFL-05200-0037G.1203.002.220.00234.GSFHS~~ SM 10SIB		Total Depth: 3.1
Company Name: CDM SMITH		Drill Contractor/Driller: N/A	
GPS collected? Yes or No		Drill Method: HAND AUGER	Depth Drilled Into Bedrock: 2.9
Radiological Background: 15mrem/115cm		Borehole diameter: 2.25"	
PID Background: 0.0 ppm		Depth to GW: N/A	Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No.:	Geologist: MARK PETRY

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0	0.4/0.5	0.0	15/84	SL-520 SAT-SB-0.0-0.5'	0950	SP-SM	SAND WITH SILT - YELLOWISH BROWN (10YR 5/4), 85% SAND, PG, F-CA, 15% SILT, LOW PLASTICITY, NO CEMENTATION, DRY, NO ODOR.
		0.0	14/86				
1.0	0.8/1.0	0.0	15/84			SP	SAND - YELLOWISH BROWN (10YR 5/6), PG, F TO CA, SR TO SA, TRACE SILT, NON-PLASTIC, F. SUBROUNDED GRAVEL, SA, NO CEMENTATION, DRY, NO ODOR.
2.0	0.5/0.5	0.0	15/102				
	0.5/0.5	0.0	14/88				~~REFUSAL @ 2.4'~~ (MP 4/19)
3.0							REFUSAL @ 2.4', 3.1' BGS

Pamela Harlan 9045

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-521-SA7-SB-0.0-0.5 Date/Time 4/15/13 @ 1415

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	X
Pesticides	EPA 8081	X

V.C. 4/15/13

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean Inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) 0
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes No

Color 2.5Y 5/4

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Pamela Hanlon **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-521	Subarea: 7	Date Started: 4/15/13	Date Completed: 4/15/13
Client: DOE	Project Name/#: ~~SCFL-05258-05976.1269.002.223.02231.SSPH3~~ PB		Total Depth: 1.5
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled Into Bedrock: 1.5'
Radiological Background: 14mrem/91cpm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0 0.0	14/89 12/54	SC-521-SA7-S3 0.0-0.5	1415	SP	SAND (SP) - LIGHT OLIVE BROWN (2.5Y 5/4), PG, F TO MED, M. G.GR, SR TO SA, TRACE SILT, NON-PLASTIC, NO TO WEAK CEMENTATION, DRY, NO ODOR.
1.0	0.5/0.5	0.0	13/90				
							REFUSAL @ 1.5', 0.9'
2.0							

Pamela Hartman #9045

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: STEVEN MERCER

Sample ID: SL-522-SA7-SB-0.0-0.5 Date/Time: 4/15/13 @ 1330

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: N/A

Field Geologist: MARK PETERS

Sampler: STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	X V.C. 4/15/13
Pesticides	EPA 8081	X

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** (0)
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 4/4

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9076

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DE-S22	Subarea: 7	Date Started: 4/15/13	Date Completed: 4/15/13
Client: DOE	Project Name/#: ~~SSFL-65250-63376.1200.002.223.02234.SSPH3~~ SM BSIA		Total Depth: 2.7'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 0.6'
Radiological Background: 18 mrem/90 cpm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETRI

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0 0.0	18/73 16/60	SL-S22-SA7-SB-0005	1370	SM	SILTY SAND - DARK YELLOWISH BROWN (10YR 4/4), 80% SAND, PG, F TO M GR, SR TO SA, 20% SILT, LOW PLASTICITY, TRACE ROOTS, DRY, NO ODOR.
1.0	0.5/0.5	0.0	17/90				NO ROOTS OBSERVED 0.5-2.1' BGS.
2.0	0.5/0.5	0.0	16/74				
	0.5/0.2	2.0	16/72			SP	SAND - LIGHT YELLOWISH BROWN (2.5Y 6/4), PG, F TO M GR, T. C GR, SR TO SA, NO CEMENTATION, DRY TO MOIST; NO ODOR - WEATHERED SANDSTONE.
3.0							REFUSAL @ 2.7' (2x)

Pamela [signature] #9045

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	φ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-522-SA7-SB-0.0-0.5 Date/Time 4/15/13 @ 1330

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	X V.C. 4/15/13
Pesticides	EPA 8081	X

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) 0
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 4/4

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ PG Registration # 9075

Additional Comments NA

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DE-S22	Subarea: 7	Date Started: 4/15/13	Date Completed: 4/15/13
Client: DOE	Project Name/#: ~~SSFL-65250-63376.1208.002.223.02234.GSPH3~~ SM BSIA		Total Depth: 2.7'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 0.6'
Radiological Background: 18 mrem/90 cpm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETRI

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0	18/73	SL-S22-SA7-SB-0.0-5	1330	SM	SILTY SAND - DARK YELLOWISH BROWN (10YR 4/4), 80% SAND, PG, F TO M GR, SR TO SA, 20% SILT, LOW PLASTICITY, TRACE ROOTS, DRY, NO ODOR.
		0.0	16/60				
1.0	0.5/0.5	0.0	17/90				NO ROOTS OBSERVED 0.5-2.1' BGS.
2.0	0.5/0.5	0.0	16/74				
	0.5/0.2	2.0	16/72			SP	SAND - LIGHT YELLOWISH BROWN (2.5Y 6/4), PG, F TO M GR, T. C GR, SR TO SA, NO CEMENTATION, DRY TO MOIST; NO ODOR - WEATHERED SANDSTONE.
3.0							REFUSAL @ 2.7' (2x)

Pamela Hatton #9045

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: √, GT

Sample ID: SL-524-SA7-SB-0.0-0.5 Date/Time: 6-4-13 1310

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite: ☐

Collection Method (circle one): (DPT) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: NA

Field Geologist: David Rojas

Sampler: Vidal Cortes

Analysis

	Parameters	Method	Analyze?
Inorganic	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Organic	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Biological	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

2 DPT SS Sleeve + 1 4-oz jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)

2. Percentage Fill (%) None

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color dk brn(10YR 3/3) mottled w/ yel brn(10YR 5/6)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

Dry (Slight Moist) Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-524	Subarea: 7	Date Started: 6-4-13	Date Completed:
Client: DOE	Project Name/#: ~~SSFL-05206-03370.1203.002.223.02231.SSFH0~~ STD 12512		Total Depth: 1st DPT 2.2
Company Name: CDM SMITH	Drill Contractor/Driller: Strongarm		
GPS collected? Yes or No	Drill Method: DPT		Depth Drilled Into Bedrock: NA
Radiological Background: γ=15 αβ=73	Borehole diameter: 2.25		
PID Background: 0.0	Depth to GW: NA		Sampling Method: DPT
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: [signature] #7735		Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
SAMPLE 0.0-0.5	0.5/0.5	0.0 0.0	15/98 12/78	SL-524 SA7-SB 0.0-0.5	1310	SP	SAND with gravel, dk brn (10YR 3/3) mottled w/ yel brn (10YR 5/6) f gm, wg, sr to sa quartz & limerock, sli moist some gravel ~15% f-sized sa to angular limerock & quartz, tr amt silt 0.8
	1.0/1.5	0.0 0.0	12/90 12 66	SL-524 SA7-SB 1.0-2.0MS SL-524 SA7 SB 1.0-2.0	1320 1330	SP	SAND, lt yel brn (10YR 6/4) f gm, pg, sr to sa, quartz dry to sli moist, loose to sli consolidated, tr amt sli consolidated silty sand nodules - mod friable, <5% silt
							Refusals @ ~2.2

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	φ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Y. GT

Sample ID SL-524-SA7-SB-1.0-2.0MS Date/Time 6-4-13 1320

Matrix (circle one): (Soil) Sediment Water

Start Depth 1.0

End Depth 2.0

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): (DPT) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) ~~FD~~ FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Vidal Cortes

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Soil	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				(SP)	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** None
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color lt yel brn (10YR 6/4).

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

Dry to Sl Moist Wet

PG Signature Nicole Hoffman **PG Registration #** 7735

Additional Comments _____

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. GF

Sample ID SL-924-SA7-SB-1.0-2.0 ~~SL-924-SA7~~

Date/Time 6-4-13 1330

Matrix (circle one): (Soil) Sediment Water

Start Depth 1.0

End Depth 2.0

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): (DPT) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N (FD) FB RB

Parent Sample ID SL-524-SA7-1.0-2.0 MS

Field Geologist DAVID ROJAS

Sampler VIDAL CORTES

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Soil	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Tissue	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** None
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color ltyel brn (10YR 6/4)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

Dry to sl. Moist Wet

PG Signature Mike Hoffman **PG Registration #** 7735

Additional Comments _____

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: STEVEN MERCER

Sample ID: SL-525-SA7-SB-0.0-0.5 Date/Time: 4/23/15 @ 1420

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: N/A

Field Geologist: MARK PETERS

Sampler: STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No

2. Percentage Fill (%) ~~NA~~ 0 SW 4/23/13

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color 10YR 5/3

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] PG Registration # 9048

Additional Comments

NA

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. Cortez

Sample ID SL-525-SA7-SB-4.0-5.0 Date/Time 6/3/13 / 1330

Matrix (circle one): (Soil) Sediment Water

Start Depth 4.0

End Depth 5.0

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Vidal Cortes

Analysis

	Parameters	Method	Analyze?
Soil/Sediment	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Soil/Sediment	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** None
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color brn yel (10YR 5/6)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments _____

NA – Not Applicable

Location ID:	Subarea:	Date Started:	Date Completed:
DG-525	7	6/3/13	→

Client: DOE | Project Name/#: ~~SGFL-66256-003T0:1203:002:2B3:08031.SGFH3~~ SM 1512

Total Depth: 1st HA = 10.6, 2nd HA = 10.4

Company Name: CDM SMITH	Drill Contractor/Driller: Strongarm
GPS collected? Yes or No	Drill Method: Hand Auger
Radiological Background:	Borehole diameter: 2.75
PID Background:	Depth to GW: NA
Radiological Equipment Used:	PG Review & No.: Mike Hoffman #1135

Depth Drilled Into Bedrock: NA

Sampling Method: Hand Auger & Slide Hammer

Geologist: David Rojas

✓ MicroR ✓ Alpha/Beta ✓ Pancake

This is a re-advancement of a boring advanced @ this location on 4/23/13 to 10.0' bls

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (uR/cpm)	Sample Name	Sample Time	USCS As per 4/23/13	USCS Per 6/4/13	Description of Materials
0		No meter reading collected on 4/23/13	See readings collected on 4/23/13			SP	SP	SEE BORING LOG DATED 4/23/13 FOR LITHOLOGY DESCRIPTION FROM 0-10' bls
1					1	SP/SM	SP/SM	
2								
3								
4				SL-525 SA7-SB 4.0-5.0	1330			SAND with SILT, brn yel (10YR 5/6) f grn, pg, sr to sa, quartz, dry, tr ang med grn, ~10% silt loose, few silty sand nodules, friable, subrounded
Sample 4.0-5.0								
5								
6								
7								
7.5						SP	SP	SAND, Hyd brn (10YR 6/4) mottled dk yel brn (10YR 5/8) & v pale brn (10YR 7/3), f grn, pg, sr to sa, quartz, dry to sli moist, tr med grn, some to common silty sand nodules - friable, sr to sa. ~~10%~~ <5% silt
8								
9						APPR	SP	SAND dk yel brn (10YR 4/6) f grn, pg, sr to sa, quartz, dry few to some med grained, some sli consolidated silty sand nodules, tr coarse grn, <5% silt
Sample 9.5-10.5				SL-525 SA7-SB 9.5-10.5	1400			
10.6								

CDM Smith

BORING LOG AND SAMPLING RECORD

Page 1 of ___

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-525-SA7-SB-6.5-7.5 Date/Time 4/24/13 @ 0910

Matrix (circle one): (Soil) Sediment Water

Start Depth 6.5

End Depth 7.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No
2. Percentage Fill (%) 0
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color 10YR 4/6

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] **PG Registration #** 9045

Additional Comments N/A

SAMPLED AT 7.5' DUE TO REFUSAL ON 2ND BORING

(MP 4/24) 8 OZ JAR COLLECTED (USING HAND AUGER) INSTEAD OF 2ND SLEEVE, DUE TO POOR SLEEVE RECOVERY

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-525	Subarea: 7	Date Started: 4/23/13	Date Completed: 4/24/13
Client: DOE	Project Name/#: ~~SSFL-65258-63376.1203.002.223.02201.SSPH3~~		Total Depth: 10.0
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 2.5
Radiological Background: 15 mrem/78 cpm	Borehole diameter: 2.25"		
PID Background: 0.2 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER (HAND AUGER.
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.2	15/78	SL-525-SA7-SB-0.0-0.5'	1420	SP	SAND-DARK, BROWN (10YR 3/3), 90% SAND, PG, F TO MED, SR TO SA, 5% SILT, NON-PLASTIC, 5% ROOTS, NO TO WEAK CEMENTATION, DRY, NO ODOR. (MAY/13) T.C.GR.
	0.5/0.5	0.2	14/90				
1.0	0.5/0.5	0.2	14/66				GRADING TO DARK YELLOWISH BROWN (10YR 3/4), TRACE ROOTS 0.5-1.0'.
						SP SM	SAND WITH SILT-DARK YELLOWISH BROWN (10YR 4/6), 85% SAND, PG, F TO MED, T.C.GR. 15% SILT, NO TO LOW PLASTICITY, T.F. GRAVEL, SR TO SA, DRY TO MOIST, NO ODOR.
2.0	0.5/0.5	0.2	15/90				
3.0	0.5/0.5	0.2	15/48				
4.0	0.5/0.5	0.1	15/66				
5.0	0.5/0.5	0.1	15/76				
6.0	0.5/0.5	0.1	15/66				
7.0	0.5/0.5	0.1	15/60	SL-525-SA7-SB-0.5-1.5'	4/24/13 @ 0910		
8.0	0.5/0.5	0.1	14/90			SP	SAND-OLIVE YELLOW (2.5Y 6/6), PG, F TO MED, SR TO SA, T. SILT, NON-PLASTIC, NO TO MODERATE CEMENTATION, DRY TO MOIST, NO ODOR. WEATHERED SANDSTONE
9.0	0.5/0.5	0.1	15/90				
10.0	0.5/0.5	0.2	16/72				SECOND REF: SA1 @ 7.5' AUGER TO 10.0'. BGS

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	φ: diameter	bgs: below ground surface

Pmk [illegible] 9048

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. Gtz

Sample ID SL-525-SA7-SB-9.5-10.5 Date/Time 6/3/13 1400

Matrix (circle one): (Soil) Sediment Water

Start Depth 9.5

End Depth 10.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Vidal Cortes

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Soil	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Tissue	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** None
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color dk yel brn (10YR 4/6)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-525	Subarea: 7	Date Started: 4/23/13	Date Completed: 4/24/13
Client: DOE	Project Name/#: ~~SSFL 65259 62376.1203.002.223.62201.6SFH8~~		Total Depth: 10.0
Company Name: CDM SMITH		Drill Contractor/Driller: N/A	
GPS collected? Yes or No		Drill Method: HAND AUGER	Depth Drilled into Bedrock: 2.5
Radiological Background: 15/ambient/78 CPM		Borehole diameter: 2.25"	
PID Background: 0.2 ppm		Depth to GW: N/A	Sampling Method: SCIOS HAMMER / HAND AUGER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PC Reviewer Initials: [signature] #7735	Geologist: MANNETTES

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0	0.5/0.5	0.2	15/78	SL-525-SA1-SA-0.0-0.5'	1400	SP	SAND- DARK BROWN (10YR 3/4), 90% SAND, PG, F TO M GR, SR TO SA, 5% SILT, NON-PLASTIC, 5% ROOTS, NO TO WEAK CEMENTATION, DRY, NO ODOR. (Comp'd (8) T.C.G.)
	0.5/0.5	0.2	14/90				
1.0	0.5/0.5	0.2	14/66			SM/SW	GRADING TO DARK YELLOWISH BROWN (10YR 3/4), TRACE ROOTS @ 1.0'.
2.0	0.5/0.5	0.2	15/90			SM/SW	SAND WITH SILT- DARK YELLOWISH BROWN (10YR 4/6), 85% SAND, PG, F TO M GR, T.C.G. 15% SILT, NO TO LOW PLASTICITY, T.F. GRAVEL, SR TO SA, DRY TO MOIST, NO ODOR.
3.0	0.4/0.5	0.2	15/48				
4.0	0.4/0.5	0.1	15/66				
5.0	0.5/0.5	0.1	05/76				
6.0	0.4/0.5	0.1	15/66				
7.0	0.5/0.5	0.1	15/60	SL-525-SA7-SB-6.5-7.5'	1245 @ 0940		
8.0	0.5/0.5	0.1	14/90			SP	SAND- OLIVE YELLOW (2.5Y 6/6), PG, F TO M GR, SR TO SA, T. SILT, NON-PLASTIC, NO TO MODERATE CEMENTATION, DRY TO MOIST, NO ODOR. WEATHERED SANDSTONE
9.0	0.5/0.5	0.1	5/90				
10.0	0.5/0.5	0.2	14/72				SECOND REFUSAL @ 7.5' AUGER TO 10.0'. BGS

CDM Smith **BORING LOG AND SAMPLING RECORD** Page 1 of 1

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

[signature] 9048

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-526-SA7-SB-00-0.5 Date/Time 4/23/13 @ 0925

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10 YR 5/8

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9048

Additional Comments _____

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-526-SA7-SB-3.5-4.5 Date/Time 4/23/13 @ 1055

Matrix (circle one): (Soil) Sediment Water

Start Depth 3.5

End Depth 4.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present: Yes (No)
2. Percentage Fill (%): 0
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 5/8

Odor

1. Odor Strength (circle one): (None) Slight Strong
2. Odor Description (circle one): Organic Petroleum Chemical (N/A) Other _____

Moisture Condition (circle one): (Dry) Moist Wet

PG Signature _____ **PG Registration #** 9848

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-526	Subarea: 7	Date Started: 4/23/13	Date Completed: 4/23/13
Client: DOE	Project Name/#: ~~SSFL-65258-63376.1263.002.223.02231.SSPHS~~ PB		Total Depth: 10.0
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled Into Bedrock: 5.5
Radiological Background: 16mrem/67cpm	Borehole diameter: 2.25"		
PID Background: 0.1 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER / HAND AUGER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.1	16/66	SL-526-SA7-SB-0.0-0.5	0925	SP-SM	SAND WITH SILT - YELLOWISH BROWN (10YR 5/8), 90% SAND, PG, F TO MG. SR TO SA, 10% SILT, NON-PLASTIC, T. F. GRAVEL, T. ROOTS, NO TO WEAK CEMENTATION, DRY TO MOIST, NO ODOR.
		0.1	14/66				
1.0	0.5/0.5	0.1	15/66				
2.0	0.5/0.5	0.1	14/60				
3.0	0.5/0.5	0.1	14/48				3.0-4.5' 10% OF MATRIX IS GRAVEL-SIZED WELL CEMENTED SANDSTONE CLASTS, SR TO SA.
4.0	0.5/0.5	0.1	15/78	SL-526-SA7-SB-3.5-4.5'	1055		
5.0	0.5/0.5	0.1	15/60			SP	SAND-LIGHT OLIVE BROWN (2.5Y 5/4), PG, F TO MG, SR TO SA, T. SILT, NON-PLASTIC, NO TO MODERATE CEMENTATION, DRY TO MOIST, NO ODOR, WEATHERED SANDSTONE.
6.0	0.5/0.5	0.1	13/30				
7.0	0.5/0.5	0.1	14/36				MOTTLED WITH STRONG BROWN (~~5/8~~ 4/4/23) (7.5YR 5/8) 7.0', 5% SILT.
8.0	0.5/0.5	0.1	15/66				
9.0	0.5/0.5	0.1	15/68				
10.0							SECOND REFUSAL @ 4.5' BS END OF BORING @ 10.0' BS

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

[signature]

Location ID:	Subarea:	Date Started:	Date Completed:
		Geologist:	Total Depth:

Project: SSFL

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. Cortez

Sample ID SL-526-SA7-SB-9.0-10.0 Date/Time 6/3/13 1135

Matrix (circle one): (Soil) Sediment Water

Start Depth 9.0

End Depth 10.0

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Vidal Cortes

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Soil	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Tissue	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO 4 SIEVE	GRAVEL WITH ± 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO 4 SIEVE	SAND WITH ± 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No
2. Percentage Fill (%) None
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color Strong brn (7.5YR 5/6) mottled w/ brn (7.5YR 5/5) & yet red (5Y 5/6)

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID:	Subarea:	Date Started:	Date Completed:
DG-526	7	~~DG-07~~ 06-03-13	

Client: DOE	Project Name/#: ~~SSFL-03258-63270.4303.002.223.02231.GSPH3-~~ SM 1851a	Total Depth: 1st HA = 10.2, 2nd HA = 10.0
Company Name: CDM SMITH	Drill Contractor/Driller: Strongarm	
GPS collected? Yes or (No) - Already Collected	Drill Method: Hand auger	Depth Drilled into Bedrock: NA
Radiological Background: 16 95	Borehole diameter: 2.75"	
PID Background: 0.0	Depth to GW: NA	Sampling Method: Slide hammer
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	QC Review & No.: Mille Hoffman #7735	Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (uR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0		0.0	16/102			SP/SM	SEE LITHOLOGY LOG DATED 4/23/13 FOR LITHOLOGY TO 10.0' bls
1							
2							
3							
4							
5						SP	
6							
7						SP	SAND, yel brn (10YR 5/6) mottled w/ brn (10YR 4/3) and lt brn gray (10YR 6/2), F grn, tr med grn, mod pg, sr to sa, quartz, sl moist, ~5% silt, some to common silt nodules, sl consolidated — 7
8							
9				SL-526 SA7-SB 9.0-10.0	1135	SP	SAND, dk yel brn (10YR 4/4) mottled w/ brn (10YR 5/3) f-m grn, mod pg, sr to sa, quartz, (yel red 5YR 5/6) sl moist, <5% silt, tr coarse grn sd & F gravel — 9.0
10		0.0	16 42			SP	SAND, strong brn (7.5YR 5/6) mottled w/ brn (7.5YR 5/4) F grn, pg, sr to sa, quartz, sl moist, tr coarse sd & F gravel (yel red 5YR 5/6) <5% silt, tr moist — 9.5 — Refusal @ 10.2' & 10.0' bls — 10.2

SAMPLE 9.0-10.0

CDM Smith BORING LOG AND SAMPLING RECORD Page ~~1 of 2~~ 1 of 1

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	Φ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. Gt

Sample ID SC-527-SA7-SB-0.0-0.5 Date/Time 4/24/13 @ 1315

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0

3. Fill Description (circle all that apply)

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel		N/A
Other		

Is Staining Present Yes (No)

Color 2.5Y 5/4

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] **PG Registration #** 9845

Additional Comments

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. G

Sample ID SC-B87-SA7-SB-2.5-3.5 Date/Time 4/24/13 @ 1440

Matrix (circle one): (Soil) Sediment Water

Start Depth 2.5

End Depth 3.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 2.5Y 6/6

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9645

Additional Comments TAN SAMPLES ORANGE FOR NON-VOLATILE CONSTITUENTS DUE TO LOSS OF RECOVERY IN SLEEVES.

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-527	Subarea: 7	Date Started: 4/24/13	Date Completed: 4/24/13
Client: DOE	Project Name/#: ~~SSFL-05208-03376.1205.002.223.02231.SSPHS~~ PB		Total Depth: 3.7
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 3.7
Radiological Background: 16 mrem/77 cpm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0	17/97	SL-527-SA7-SB-0.0-0.5	1315	SP	SAND - LIGHT OLIVE BROWN (2.5Y 5/4), PS, FT MGR, T.C.GR, SR TO SA, T. SILT, NON-PLASTIC, NO TO MODERATE CEMENTATION, NO ODOR, DRY. WEATHERED SANDSTONE.
		0.1	16/90				
1.0	0.5/0.5	0.1	16/96				GRADING TO OLIVE YELLOW (2.5Y 6/6) 0.5-1.0' BGS
2.0	0.5/0.5	0.1	16/78				
3.0	0.5/0.5	0.1	16/67	SL-527-SA7-SB-2.5-3.5'			
	0.5/0.5	0.1	16/67				
							REFUSAL @ 3.7'. SAMPLED DUE TO SLIGHT ELEVATED PID READING @ REQUEST OF FTL.

[signature]

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SC-528-SA7-SB-0.0-0.5 Date/Time 4/24/13@ 1055

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER.

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)

2. **Percentage Fill (%)** 0

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 5/6

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DC-528	Subarea: 7	Date Started: 4/24/13	Date Completed: 4/24/13
Client: DOE	Project Name/#: ~~SSFL 65258 63370.1203.002.223.02231.3SPHS~~ PB		Total Depth: 2.0'
Company Name: CDM SMITH		Drill Contractor/Driller: N/A	
GPS collected? Yes or No		Drill Method: HAND AUGER	Depth Drilled into Bedrock: 1.5'
Radiological Background: 17 nom / 65 cpm		Borehole diameter: 2.25"	
PID Background: 0.0 ppm		Depth to GW: N/A	Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No.:	Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0	16/83	SL-528-SB1-528-0.0-0.5	1055	SP-SM	SAND WITH SILT - YELLOWISH BROWN (10YR 5/4) DRY, SAND, PS, F TO MGR, SR TO SA, 15% SILT, NON-PLASTIC, NO RD, WEAK CEMENTATION, DRY, NO ODOR.
1.0	0.5/0.5	0.1	16/102			SP	SAND - OLIVE YELLOW (2.5Y 6/6), 95% SAND, PS, F TO G, F. C. GR., SR TO SA, 5% SILT, NON-PLASTIC, NO TO MODERATE CEMENTATION, DRY, NO ODOR.
2.0	0.5/0.5	0.1	16/90				
							REFUSAL @ 1.0, 2.0' BGS.

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. Cortez

Sample ID SL-529-SA7-SB-0.0-0.5 Date/Time 4/24/13@ 1000

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MENCEN

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel	(N/A)	
Other _____		

Is Staining Present Yes (No)

Color 2.5Y 5/4

Odor

1. **Odor Strength (circle one)**: (None) Slight Strong
2. **Odor Description (circle one)**: Organic Petroleum Chemical (N/A) Other _____

Moisture Condition (circle one): (Dry) Moist Wet

PG Signature _____ **PG Registration #** 9845

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-529	Subarea: 7	Date Started: 4/24/13	Date Completed: 4/24/13
Client: DOE	Project Name/#: ~~SSFL-05288-03376.1203.002.223.02231.SSPH3~~ PB		Total Depth: 2.1'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 1.6
Radiological Background: 16 mrem/6 ppm	Borehole diameter: 2.25"		
PID Background: 0.1 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.1	16/87	SL-529-SA7-SB-0.0-0.5	1000	SP-SM	SAND WITH SILT. LIGHT OLIVE BROWN (2.5Y 5/4) PG, F TO M GR, SR TO SA, 10% SILT, NON-PLASTIC, 5% ROOTS/BRANCH FRAGMENTS, T. F. GRAVEL, NO TO WEAK CEMENTATION, DRY, NO ODOR.
		0.0	16/102				
1.0	0.5/0.5	0.1	16/66			SP	SAND, YELLOWISH BROWN (~~[illegible]~~ 10YR 2.5Y 6/6), PG, F TO M GR., ~~SR TO SA~~ MY (4) T. C. GR., SR TO SA, T. SILT, NON-PLASTIC, NO TO MODERATE CEMENTATION, DRY, NO ODOR. WEATHERED SANDSTONE
2.0	0.4/0.4	0.1	15/66				
							REFUSAL @ 2.1', 1.8' BGS

Pamela Hart #9045

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By [illegible]

Sample ID SL-530-SA7-SB-0.0-0.5' Date/Time 4/18/13 @ 1410

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 2.5Y 5/3

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Pamela Martens **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-530	Subarea: 7	Date Started: 4/18/13	Date Completed: 4/18/13
Client: DOE	Project Name/#: ~~SSFL-60268-63376.1203.002.223.02231.SSFHS~~ SM 10512		Total Depth: 1.9'
Company Name: CDM SMITH		Drill Contractor/Driller: N/A	
GPS collected? Yes or No		Drill Method: HAND AUGER	Depth Drilled into Bedrock: 0.3
Radiological Background: 15 mrem / 96 cpm		Borehole diameter: 2.25	
PID Background: 0.2 ppm		Depth to GW: N/A	Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No.:	Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (uR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.4/0.5	0.2	16/98	SC-530 SA7-SS-0.0-0.5	1410	SP	SAND - GY. OLIVE BROWN (2.5Y 5/3), 95% SAND, PG, F TO M GR., SR TO SA, 5% SILT, NON-PLASTIC, NO CEMENTATION, DRY, NO ODOR, @
	0.4/0.5	0.3	17/96				
1.0	0.4/0.5	0.2	16/92				GRADING TO YELLOWISH-BROWN (10YR 5/4) @ 1.0', TRACE F. GRAVEL.
2.0	0.5/0.4	0.2	16/84				SAND - GY. OLIVE BROWN (2.5Y 5/4), PG, F TO M GR. T @ GR. SR TO SA, T. SILT, NON-PLASTIC, NO TO MODERATE CEMENTATION, DRY, NO ODOR.
							REFUSAL @ 1.9', 1' BGS

Pamela Harlan 9145

CDM Smith **BORING LOG AND SAMPLING RECORD** Page 1 of 1

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By [signature]

Sample ID SC-~~851~~ 531 (no 8/17) SA7-SB-0.0-0.5

Date/Time 4/18/13 @ 0855

Matrix (circle one): Soil (circled) | Sediment | Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches | Feet (circled)

Check If Composite ☐

Collection Method (circle one): DPT | Slide Hammer (circled) | Hand Auger/Slide Hammer | Trenching | Sediment

QC Type (circle one): N (circled) | FD | FB | RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 5/4

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-531	Subarea: 7	Date Started: 4/18/13	Date Completed: 4/18/13
Client: DOE	Project Name/#: ~~SSFL-00255-00070.1203.002.223.02231.SSPH3~~ SM 12512		Total Depth: 0.7
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 0.2
Radiological Background: 15mrem/68cm	Borehole diameter: 2.25"		
PID Background: 0.1 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.1	[illegible]	SL-531-SA-50-0.0-0.5	0855	SP	SAND. YELLOWISH BROWN (10YR 5/4) 95% SAND, 4 TO MED, PG, SR TO SA, 5% SILT, NON-PLASTIC, WEAK CEMENTATION 0.4-0.5' BGS, TRACE ROOTS. DRY NO ODOR
		0.0	[illegible]				
		0.0	[illegible]				0.5-0.7' NO SILT, NO TO MODERATE CEMENTATION
1.0							REFUSAL @ 0.7', 0.6
2.0							

Pamela Hartman 9045

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
		Geologist:	Total Depth:

Project: SSFL

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID (mr4/18) ~~0~~ SL-~~531~~ 532 SA7-SB-0.0-0.5' SM 4/18/13

Date/Time 4/18/13 @ 0945

Matrix (circle one): Soil (circled) Sediment Water

Start Depth 0.0

End Depth 0.5'

Depth Units (circle one): Inches Feet (circled)

Check If Composite ☐

Collection Method (circle one): DPT Slide Hammer (circled) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N (circled) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present: Yes (No)
2. Percentage Fill (%): 0
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 5/4

Odor

1. Odor Strength (circle one): (None) Slight Strong
2. Odor Description (circle one): Organic Petroleum Chemical (N/A) Other _____

Moisture Condition (circle one): (Dry) Moist Wet

PG Signature Pamela Hartline **PG Registration #** 9048

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-532	Subarea: 7	Date Started: 4/18/13	Date Completed: 4/18/13
Client: DOE	Project Name/#: ~~SSFL-00208-03370.1203.002.223.02231.35PHS~~ SSFL		Total Depth: 4.0
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 3.5
Radiological Background: 15 uR/hr-197cpm	Borehole diameter: 2.25"		
PID Background: 0.1 ppm	Depth to GW: N/A		Sampling Method: SCRAPE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETRIS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (uR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0	0.4/0.5	0.1	15/87	DG-532-SA7-SS-00-0.0	0945	SP	SAND, YELLOWISH BROWN (10YR 5/4), MEDIUM, POORLY GRADED, SUBROUNDED, NON-PLASTIC, TRACE ROOTS 0-0.3' BGS, WEAK TO MODERATE CEMENTATION 0.4-0.5' BGS. DRY, NO ODOR.
	0.4/0.5	0.1	14/72				
1.0		0.1	15/86				0.5-4.0' WEATHERED SANDSTONE SIMILAR AS ABOVE EXCEPT TRACE SILT, F. C. SAND.
2.0	0.4/0.5	0.1	15/84				
3.0	0.4/0.5	0.1	15/86				
4.0	0.4/0.5	0.1	14/78				
							REFUSAL @ 4.0; 3.7'

Pamela Harlan 9045

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
		Geologist:	Total Depth:

Project: SSFL

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. Cortez

Sample ID SL-532-SA7-SB-30-4.0 Date/Time 6-3-13 / 1000

Matrix (circle one): (Soil) Sediment Water

Start Depth 3.0

End Depth 4.0

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT ~~Slide Hammer~~ (Hand Auger/Slide Hammer) Trenching Sediment

V.C. 6/3/13

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Vidal Cortes

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Soil	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

2 slide hammer sleeves, 1 4-oz jar, 2 encores

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) None
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No) tr.

Color yel brn (10YR 5/6) mottled w/ dk yel brn (10YR 4/6)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID:	Subarea:	Date Started:	Date Completed:
PG-532	7	6-3-13	→

Client: DOE	Project Name/#: ~~SSFL-05258-03070.1203.002.223.02231.SSFH3~~ SM 1352	Total Depth: 1st HA = 4.0, 2nd HA = 4.0
Company Name: CDM SMITH	Drill Contractor/Driller: Strongarm	
GPS collected? Yes or No	Drill Method: Hand Auger	Depth Drilled Into Bedrock: NA
Radiological Background: 14 ~~82~~ 97	Borehole diameter: 2.75"	
PID Background: 0.0	Depth to GW: NA	Sampling Method: Slide Hammer
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	~~PG Review & No.~~ [signature] #7735	Geologist: David Rojas

This is a re-advancement of boring advanced on 4/18/13 ← only sample collected from 0.0-0.5

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	14/72			SP	SEE LITHOLOGY LOG DATED 4/18/13
						↓ to 4'	← FOR LITHOLOGY TO 4.0' bls
1		See Boring Log For Readings Collected on 4/18/13				SP/SM	← suspect @ ~1' grades ~~changes~~ to SP/SM w/ ~10% silt
2						SM	← suspect @ ~2' ~~changes~~ grades to SM w/ ~30% silt
3				SL-532 SA7-SB 3.0-4.0	1000		
3.0-4.0						SM	SILTY SAND, yel brn (10YR 5/6) tr mottling w/ dk yel brn w/ 10YR 4/6, F grn, pg, sr to sa, quartz, dry, tr amt silt nodules - friable, sa. ~40% silt
4		0.0	14/84				

Refusals @ 4.0 & 4.0

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: STEVEN MERCER

Sample ID: SL-533-SA7-SB-0.0-0.5 Date/Time: 4/18/13 @ 1125

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: N/A

Field Geologist: MARK PETERS

Sampler: STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) (0)
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 4/4

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-533	Subarea: 7	Date Started: 4/18/13	Date Completed: 4/18/13
Client: DOE	Project Name/#: ~~SSFL-65258-63376.1203.002.223.02231.SSPH3~~ SM 12512		Total Depth: 3.0
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER.		Depth Drilled into Bedrock: 1.6
Radiological Background: 14 mrem / 78 cm	Borehole diameter: 2.25"		
PID Background: 0.1 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: [signature] #7735		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.1	15/102	SC-533-SAP-SB-0.0-0.5	SM 4/18/13 1125	SM	SILTY SAND - DARK YELLOWISH BROWN (10YR 4/4), 75% SAND, PG, F-GR, 25% SILT, LOW PLASTICITY, NO CEMENTATION, TRACE ROOTS, DRY, NO ODOR.
	0.5/0.5	0.1	15/108				
1.0		0.1	16/70			SP-SM	SAND WITH SILT - DARK YELLOWISH BROWN (10YR 4/6), 90% SAND, PG, F TO M GR, SR TO SA, 10% SILT, NON-PLASTIC, NO CEMENTATION, DRY, NO ODOR.
2.0	0.5/0.5	0.1	15/66			SP	SAND - YELLOWISH-BROWN (10YR 5/6), PG, F TO M GR, T.C. GR, SR TO SA, NO TO MODERATE CEMENTATION, DRY TO MOIST, NO ODOR.
3.0	0.5/0.5	0.1	15/108				COLOR CHANGE @ 2.0', BROWNISH YELLOW (10YR 6/6).
							REFUSAL @ 3.0'; 2.2'

[signature]

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. Cortes

Sample ID 533-SL-SA7-SB-2.5-3.5 Date/Time 06-03-13/ 0910

Matrix (circle one): (Soil) Sediment Water

Start Depth 2.5

End Depth 3.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT ~~Slide Hammer~~ (Hand Auger/Slide Hammer) Trenching Sediment

VC 6/3/13

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Vidal Cortes

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Soil	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

2 slide hammer sleeves, 1-4oz jar, 2 Encores

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)

2. **Percentage Fill (%)** None

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color brn yel (10YR 4/6)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DO-533	Subarea: 7	Date Started: 6/3/13	Date Completed:
Client: DOE	Project Name/#: ~~SSFL-05208-03370.1203.002.203.02231.33PHS~~ SSFL 1a/1b		Total Depth: NA 1st = 3.6 NA 2nd = 3.3
Company Name: CDM SMITH		Drill Contractor/Driller: Strongarm	
GPS collected? Yes or No		Drill Method: Handauger	Depth Drilled into Bedrock: NA
Radiological Background: 14 78		Borehole diameter: 2.75"	
PID Background: 0.0		Depth to GW: NA	Sampling Method: Slide hammer
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No.: [signature] #7735	Geologist: David Rojas

This is a re-sample of boring advanced on 4/18/13 ← only sample collected from 0.0-0.5

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (uR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1	SEE SOIL BORING DATA SHEET 4/18/13	0.0	14/82			SM	SEE LITHOLOGY LOG DATED 4/18/13 FOR LITHOLOGY TO 3.0' bls
						SP/SM	← Suspect this should have been SM - Silty Sand ~30% silt (1.0)
2						SP	← Suspect this should have been SM - Silty Sand ~40% silt (1.7)
Sample 2.5-3.5 3				SL-533 SA7-SB 2.5-3.5	0910	SM	SILTY SAND, brn yel (10YR 6/6), F gr, fr med gr, tr F gravel pg, sr to sa, gr ss, dry, some silt nodules - tabular (possible lamination)
							Refusals @ 3.6 & 3.3

CDM Smith

BORING LOG AND SAMPLING RECORD

Page 1 of ___

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Vidal GP

Sample ID SL-534-SA7-SB-00-05 Date/Time 4/12/13 1430

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 4/3

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments _____

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: STEVEN MERCER

Sample ID: SL-534-SA7-SB-5.5-6.5 Date/Time: 4/15/13 0845

Matrix (circle one): (Soil) Sediment Water

Start Depth: 5.5

End Depth: 6.5

Depth Units (circle one): Inches (Feet)

Check if Composite: ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: N/A

Field Geologist: MARK PETERS

Sampler: STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 5/6

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Pamela Hunter **PG Registration #** 9045

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-534	Subarea: 7	Date Started: 4/12/13	Date Completed: 4/15/13
Client: DOE	Project Name/#: ~~SSFL-65258-83378.1203.002.223.02231.SSPH3~~ SM Tasia		Total Depth: 6.8'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 0.3
Radiological Background: 15 cpm / 1 µR/hr	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0	0.4/0.5	15/17	0.0	SL-534-SA7-SS-0001-S	1430	SP	SAND - BROWN (10YR 4/3), PG, F-GR, TRACE SILT, NON-PLASTIC, NO TO MODERATE CEMENTATION, MODERATELY CEMENTED FRAGMENTS (20% OF MATRIX) AND OLIVE-BROWN (2.5Y 5/4) GRAVEL-SIZED, DRY, NO ODOR
1.0	0.5/0.5	15/17	0.0			SP-SM	SAND WITH SILT (SP-SM) DARK YELLOWISH BROWN (10YR 3/6), 90% SAND, PG, F-GR, 10% SILT, NON-PLASTIC, NO CEMENTATION, DRY, NO ODOR
2.0	0.4/0.5	15/16	0.0				
3.0	0.4/0.5	15/16	0.0			SM	SILTY SAND (SM) - YELLOWISH BROWN (10YR 5/6), 80% SAND, PG, F-GR, 20% SILT, NON-PLASTIC, NO TO WEAK CEMENTATION, DRY TO MOIST, NO ODOR.
4.0	0.4/0.5	15/16	0.0				
5.0	0.4/0.5	15/16	0.0				
6.0	0.4/0.5	15/16	0.0	SL-534-SA7-SS-5.5-6.5'	4/15/13 @ 0845		
7.0	0.5/0.6	15/16	0.0			SP-SM	SAND WITH SILT - OLIVE-BROWN (2.5Y 4/4) TO OLIVE-BROWN (2.5Y 5/4), 90% SAND, PG, F TO MGR, SUBROUNDED, 10% SILT, NO TO LOW PLASTICITY, NO CEMENTATION, DRY, NO ODOR. REFUSAL AT 6.5' BGS.

Pamela Tarlo #9045

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: STEVEN MERCER

Sample ID: SC-535-SA7-SB-0.0-0.5 Date/Time: 4/12/13 @ 1050

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: N/A

Field Geologist: MARK PETERS

Sampler: STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X (~~4/10~~)
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) (0)
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 2.5Y 6/3

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] PG Registration # 9045

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-535	Subarea: 7	Date Started: 4/12/13	Date Completed: 4/12/13
Client: DOE	Project Name/#: ~~SSFL-05250-63376.1203.002.223.02231 SSPH5~~ SM 12S12		Total Depth: 10.0'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled Into Bedrock: 0.0'
Radiological Background: 14 mrem / 89 cpm	Borehole diameter: 2.25"		
PID Background: 0.2 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER/HAND AUGER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.2 0.2	15/94 14/60	SL-535-5A7-53-0.0-0.5	1030	SP	SAND - LIGHT YELLOWISH BROWN (2.5Y 6/3), PG, F-MED, SR-TO SR, TRACE SILT, NON-PLASTIC, NO TO MODERATE CEMENTATION (APPROX. 50% MODERATELY CEMENTED), DRY, NO ODOR.
1.0	0.5/0.5	0.0	14/78				
2.0	0.5/0.5	0.0	15/78			SM	SILTY SAND (SM) ~~80% SAND~~ (MY 4/2) DARK BROWN (10YR 3/3), 80% SAND, F-GR, PG, 20% SILT, NON-LOW PLASTICITY, TRACE GRAVEL (SANDSTONE), DRY TO MOIST, NO ODOR.
3.0	0.5/0.5	0.0	15/66				
4.0	0.5/0.5	0.0	14/78	SL-535-5A7-53-4.0-5.0	1057		
5.0	0.5/0.5	0.0	15/72				
6.0	0.5/0.5	0.0	15/66				GRADING TO DARK YELLOWISH BROWN (10YR 4/6) 5.5-6.5 BGS
7.0	0.5/0.5	0.0	14/84				
8.0	0.5/0.5	0.0	15/54				
9.0	0.5/0.5	0.0	15/60				
10.0	0.5/0.5	0.0	15/54	SL-535-5A7-53-9.0-10.0	1130		

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

[signature] # 9045

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-535-SA7-SB ~~4.0-10.0~~ 4.0-5.0 (not 4/12) Date/Time 4/12/13 @ 1057

Matrix (circle one): Soil (circled) Sediment Water

Start Depth 4.0

End Depth 5.0

Depth Units (circle one): Inches Feet (circled)

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer Hand Auger/Slide Hammer (circled) Trenching Sediment

QC Type (circle one): N (circled) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 3/3

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-535-SA7-SB-9.0-10.0 Date/Time 4/12/15 @ 1130

Matrix (circle one): (Soil) Sediment Water

Start Depth 9.0

End Depth 10.0

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** (0)
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10 YR 4/6

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-536-SA7-SB-0.0-0.5 Date/Time 4/11/13 @ 1155

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present SM 4/11/13 Yes No
2. Percentage Fill (%) 0
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color ~~10YR~~ (no 4/11) 2.5Y 5/4

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] PG Registration # 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID:	Subarea:	Date Started:	Date Completed:
06-536	7	4/11/13	4/12/13 (and 4/11)

Client: DOE	Project Name/#: ~~SSFL-66258-63670-1203.002.223.02231.SSPHS~~ SMBasin	Total Depth: 7.1
Company Name: CDM SMITH	Drill Contractor/Driller: N/A	
GPS collected? Yes or No	Drill Method: HAND AUGER	Depth Drilled into Bedrock: 0.0
Radiological Background: 15 mrem 1.09 cpm	Borehole diameter: 2.25"	
PID Background: 0.0 ppm	Depth to GW: N/A	Sampling Method: SLIDE HAMMER/HAND AUGER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:	Geologist: MARK REEVES

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	15/61	SL-536-SA7-SB-0.0-0.5	1255	SP	SAND- LIGHT OLIVE BROWN (2.5Y 5/4) - 95% SAND, PG, F-MGR, SR TO SA, 5% SLT, NON-PLASTIC, TRACE ROOTS, NO TO MODERATE CEMENTATION, DRY. APPROX. 5-10% OF SAND MATRIX IS MODERATELY CEMENTED GRAVEL- SIZED SANDSTONE CLASTS.
		0.0	15/60				
1.0		0.0	15/60				
2.0		0.0	15/62				
3.0		0.0	14/42				
4.0		0.0	15/18				
5.0		0.0	15/60			SM	SILTY SAND- DARK BROWN (10YR 3/3), 70% SAND, PG, F GR. 30% SLT, NO TO LOW PLASTICITY, DRY TO MOIST, NO ODOR.
6.0		12.2*	15/32				TRACE GRAVEL SIZED SANDSTONE CLASTS IN SILTY SAND MATRIX 5.5-7.1' BGS.
7.0		0 L	15/57	SL-536-SA7-SB-5.5-7.1 MS	4/12 @ 0849		
				3.0-4.0 MS (4.1.1)			REFUSAL @ 7.1' BGS, 2.0', 3.4', 4.0'
				SL-836-SA7-SB-3.0-4.0	4/12 @ 0900		* BAG SAMPLE FOR PID-RES AND SURFACE SCAN.

CDM Smith

BORING LOG AND SAMPLING RECORD

Page 1 of 1

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Pam Leftwich PO# 90915

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Vidal Cruz

Sample ID SL-536-SA7-SB-3.0-4.0-MS Date/Time 4/12/13 @ 0850

Matrix (circle one): (Soil) Sediment Water

Start Depth 3.0

End Depth 4.0

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No
2. Percentage Fill (%) 0
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color 2.5Y 5/4

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] **PG Registration #** 9045

Additional Comments ORIGINAL REFUSAL AT 7.1' BGS, SUBSEQUENT REFUSALS AT 2.0', 3.4, 4.0' COLLECTED 3.0-4.0' SAMPLE DUE TO MULTIPLE REFUSALS BELOW THIS RANGE. (MP 11)

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. Cuff

Sample ID SL-836-SA7-SB-3.0-4.0 Date/Time 4/12/13 @ 0900

Matrix (circle one): (Soil) Sediment Water

Start Depth 3.0

End Depth 4.0

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): N (FD) FB RB

Parent Sample ID SL-536 SA7-SB 3.0 4.0 MS

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 2.5Y 5/4

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: STEVEN M ERCER

Sample ID: SL-SS7-SA7-SB-0.0-0.5' Date/Time: 4/15/13 @ 0950

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: N/A

Field Geologist: MARK PETERS

Sampler: STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 4/3

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Pamela Hanlon **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-537	Subarea: 7	Date Started: 4/15/13	Date Completed: 4/15/13
Client: DOE	Project Name/#: ~~SSFL-85258-63376.1200.002.223.02231.SSPH0~~ SM 10512		Total Depth: 1.9'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 1.4'
Radiological Background: 15 mrem/92cm	Borehole diameter: 2.25"		
PID Background: 0.0	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0 0.0	16/92 13/60	SC-537-SA7-SB-0.0-0.5	0950	SP	SAND- ~~DARK~~ BROWN (10YR 4/3), 95% SAND, PG, F TO MGR, SR TO SA, 5% SILT, NON-PLASTIC, NO TO MODERATE CEMENTATION, CEMENTED GRAVELSIZED CLASTS (APPROX. 20% OF MATRIX) ARE LIGHT YELLOWISH BROWN (2.5Y 6/4), TRACE ROOTS, DRY, NO ODOR.
1.0	0.5/0.5	0.0	14/78			SP	SAND- LIGHT OLIVE BROWN (2.5Y 5/4), PG, F TO MGR, SR TO SA, T. SILT, NON-PLASTIC, NO TO MODERATE CEMENTATION (~10% CEMENTED), DRY, NO ODOR.
2.0	0.5/0.5	0.0	13/60				REFUSAL @ 1.4 (2X).

Pamela Hawkins #9045

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: STEVEN MERCER

Sample ID: SC-538-SA7-SB-010-0.5 Date/Time: 4/15/13 1050

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: N/A

Field Geologist: MARK PETERS

Sampler: STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 4/3

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-538	Subarea: 7	Date Started: 4/15/13	Date Completed: 4/15/13
Client: DOE	Project Name/#: ~~SSFL-65258-63376.1203.002.223.02234.SSFH3~~ SSFL 12512		Total Depth: ~~0.9~~ 2.8'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: ~~SCID~~ (MPSH) HAND AUGER.		Depth Drilled into Bedrock: 2.7'
Radiological Background: ~~[illegible]~~ mrem/10 2cm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER.
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0	14/90	SC-538-SA7-SB-0.0-0.5	1050	SP	SAND (SP) BROWN (10YR 4/3) 95% SAND, PG, F TO MEDIUM, SR TO SA, 5% SILT, NON-PLASTIC, TRACE GRAVEL, NO TO WEAK CEMENTATION, TRACE ROOTS, DRY, NO ODOR.
		0.0	13/[illegible]				
1.0	0.5/0.5	0.0	15/90			SP	SAND - LIGHT OLIVE BROWN (2.5Y 5/4), PG, F TO MEDIUM, SR TO SA, TRACE SILT, NON-PLASTIC, NO TO WEAK CEMENTATION, DRY, NO ODOR
	—	0.0	13/66				
2.0	0.5/0.5	0.0	13/72				
	0.5/0.5	0.0	13/78				GRADING TO OLIVE BROWN (2.5Y 4/4), 2.5-2.8'. BGS
3.0							REFUSAL @ 0.9', 2.8'.

Pamela Hartman #9045

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
		Geologist:	Total Depth:

Project: SSFL

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-539-SA7-SB-0.0-0.5 Date/Time 4/8/13 @ 12:45

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)

2. **Percentage Fill (%)** 0

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 2.5Y 5/3

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: 7-06-539	Subarea: 7	Date Started: 4/8/13	Date Completed: 4/8/13
Client: DOE	Project Name/#: ~~SSFL-65258-63376.1203.002.223.02234.SSPH3~~ SM 12512		Total Depth: 2.5'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: ~~N/A~~ SLIDE HAMMER		Depth Drilled Into Bedrock: 2.5'
Radiological Background: 14 mrem/yl cpm	Borehole diameter: 2.25"		
PID Background: 0.2 ppm	Depth to GW: N/A		Sampling Method: HAND AUGER / SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.2 / 0.2	14/92 / 14/98	SL-539-SA7-SB-0.0-0.5	12:45	SP	SAND - LIGHT OLIVE BROWN (2.5Y 5/3), PG, F-M, SA-SR, NO PLASTICITY, 10% GRAVEL-SIZED MODERATELY CEMENTED NODULES, TRACE ROOTS/ORGANIC MATTER, DRY (WEATHERED SANDSTONE) NO ODOR. (MP 4/8)
	0.5/0.5	0.0	13/72				
1.0	0.5/0.5	0.0	13/90				
	0.5/0.5	0.0	12/72				TRACE SUBANGULAR F-C GRAVEL STARTING AT 0.5' BGS. (MP 4/8)
2.0							
	(NO RECOVERY 2.5")						
3.0							REFUSAL @ 2.5', 0.5'
4.0							
5.0							

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	φ: diameter	bgs:below ground surface

[signature] PG 9045

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-540-SA7-SR-0.0-0.5 MS/MSD 3/4/13 12:30 Date/Time 4/9/13 @ 1010

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	X
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	X
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL/GRAVEL < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 5/6

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG540	Subarea: 7	Date Started: 4/9/13	Date Completed: 4/9/13
Client: DOE	Project Name/#: ~~SSFL-85268-03376.1203.002.223.02231.SSPH3~~ SM 1350		Total Depth: 1.1
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled Into Bedrock: —
Radiological Background: 14mrem/89cm	Borehole diameter: 2.25"		
PID Background: 0.1 ppm	Depth to GW:		Sampling Method: SCIDE HAMMER/HAND AUGER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.1	14/85	SL-540-S97-SB 0.0-0.5 MS	1010	SP	SAND- YELLOWISH-BROWN (10 YR 5/6), PG, F TO MED, SR TO SA, TRACE SILT, NON-PLASTIC, NO TO WEAK CEMENTATION, DRY, NO ODOR. TRACE FOR. SA TO SA GRAVEL 0.5-1.1' BGS.
		0.1	14/89				
1.0		0.2	13/84	SL-540-S97-SB 0.0-0.5	1015		
							REFUSAL @ 1.1' BGS, 1.4' BGS
2.0							

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Pamela [illegible] PG 9045

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: STEVEN MERCER

Sample ID: SC-540-SA7-SB-0.0-0.5 Date/Time: 7/9/13 1015

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N (FD) FB RB

Parent Sample ID: SC-540-SA7-SB-0.0-0.5 MS

Field Geologist: MARK PETERS

Sampler: STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	X
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
NItrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	X
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** (0)
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 5/6

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. Cortez

Sample ID SL-541-SA7-SB-0.0-0.5 Date/Time 10-2-13/ 0845

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): (DPT) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Vidal Cortes

Analysis

Chemical	Method	
Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

Chemical	Method	
VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

2 SS Sleeves & 1 4oz jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				(SP)	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** (Yes) No
2. **Percentage Fill (%)** 10%
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

(Igneous/Metamorphic Gravel) N/A

Other sdstn gravel

Is Staining Present Yes (No)

Color yel brn (10YR 5/4)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Mike Hoffman **PG Registration #** 7735

Additional Comments NA

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. G Fz

Sample ID SL-541-SA7-SB-2.0-3.0 Date/Time 10-2-13/0850

Matrix (circle one): (Soil) Sediment Water

Start Depth 2.0

End Depth 3.0

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): (DPT) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Vidal Cortes

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

2 16oz jars, 2 8ounce, 1 4oz jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** (Yes) No
2. **Percentage Fill (%)** 10
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

(Igneous/Metamorphic Gravel) N/A

Other Sdsth Gravel

Is Staining Present Yes (No)

Color greyish brn (10YR 5/2)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Mike Hoffman **PG Registration #** 7735

Additional Comments NA

NA – Not Applicable

Location ID: DG-541	Subarea: 7	Date Started: 10-2-13	Date Completed: 10-2-13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1st DPT = 2.9, 2nd DPT = 2.7, 3rd DPT = 2.6
Company Name: CDM SMITH		Drill Contractor/Driller: Strongarm	
GPS collected? (Yes) or No		Drill Method: DPT	Depth Drilled into Bedrock: NA
Radiological Background: γ = 12 αβ = 80		Borehole diameter: 2.25"	
PID Background: 0.0		Depth to GW: NA	Sampling Method: DPT
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No: [signature] #7735	Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0	12/69	SL-541 SA7-SB 0.0-0.5	0845		ASPHALT PAVEMENT 0.0-0.2' bls
		0.0	12/78				ROADBASE GRAVEL 0.2-0.3' bls — sdstn & igneous rock
1		0.0	12/66			SP	SAND yel brn (10YR 5/4) mottled w/ brn yel (10YR 6/6) f grn w/ Fe in to some med grn & tr ant c grn, mod poorly ~~sorted~~ graded subrounded, quartz & tr ant sdstn, dry, tr ant silt 90% SD 10% GRAVEL tr silt SM101413
2	2.4/2.4	0.0	12/72	SL-541 SA7-SB 2.0-3.0	0850	SP	SAND grayish brn (10YR 5/2) mottled w/ lt yel brn (10YR 6/4) f-m grn w/ Fe in to some coarse grn, mod poorly ~~sorted~~ graded subrounded, quartz sdstn, igneous, dry tr ant f gravel, igneous, sll silty 90% SD 10% GRAVEL tr silt SM101413
		0.0	12/90				
							Refusal @ 2.9' bls

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	φ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Vidal Cortez 4/9/13

Sample ID SL-542-SA7-SB-0.0-0.5 Date/Time ~~4/9/13~~ 4/9/13 @ 0840

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 2.5Y 5/4

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID:	Subarea:	Date Started:	Date Completed:
DO-542	7	4/9/13	4/9/13

Client: DOE	Project Name/#: ~~SCFL-05259-00078.1303.002.220.02231.36PM3~~ SM 10516	Total Depth: 2.5'
Company Name: CDM SMITH	Drill Contractor/Driller:	
GPS collected? (Yes) or No	Drill Method: HAND AUGER	Depth Drilled into Bedrock: 0'
Radiological Background: 13mR/77cpm	Borehole diameter: 2.25"	
PID Background: 0.0 ppm	Depth to GW: N/A	Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:	Geologist: MARK PERRY

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0	0.5/0.5	0.0	M/96	SL-542-SA7-SA 0.0-0.5	0840	SP	SAND - LIGHT OLIVE BROWN (2.5Y 5/4), 95% SAND PG, F.GR., SR TO SA, 5% SILT, NON-PLASTIC, DRY, NO ODOR.
	0.5/0.5	0.0	13/48				
1.0		0.0	14/108				TRACE F GR. SR TO SA GRAVEL (SAND STONE/GRANITE)
	0.5/0.5	0.0	14/102			SP-SM	SAND WITH SILT - OLIVE YELLOWISH BROWN (10YR 4/4), 90% SAND, F-M GR, SR TO SA, 10% SILT, NON-PLASTIC, TRACE F.GR SR-TO SA GRAVEL (SAND STONE/GRANITE), DRY TO MOIST.
2.0							TRACE PALE BROWN (2.5Y 8/3) SAND @ 2.5' BGS.
			(CPM 4/4)				REFUSAL AT 2.5', 2.2' (CPM 5/4)

CDM Smith **BORING LOG AND SAMPLING RECORD** Page 1 of 1

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

PG 9045

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID ~~SL-06-543A~~ SL-543A-SA7-SB-0005 Date/Time 4/25/13 @ 1425

Matrix (circle one): Soil (circled) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches Feet (circled)

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer (circled) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N (circled) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

[illegible]	[illegible]	[illegible]
Metals	EPA 6010	
	EPA 6020	
	EPA 7471 (Soil)	
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	X (MS)
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

[illegible]	[illegible]	[illegible]
VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No
2. Percentage Fill (%) 0
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color ~~2.5Y 5/4~~ 10YR 5/4 SM 4/25/13

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] PG Registration # 7735

Additional Comments N/A

NA – Not Applicable

FSDS Revision 2.0 5/30/2012

Santa Susana Field Laboratory/94489

Location ID: 06-543A	Subarea: 7	Date Started: 4/25/13	Date Completed: 4/25/13
Client: DOE	Project Name/#: ~~SSFL-65288-63376.1203.002.223.02231.SSPH3~~ PB		Total Depth: 0.5'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: SLIDE HAMMER		Depth Drilled into Bedrock: 0.0
Radiological Background: 14/Nrc-/57cr	Borehole diameter: 2.25"		
PID Background: 0.0	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0	14/107	SL-543A-SA7-SD-0.0-0.5'	1425	SP	95% SAND (MEDIUM) SAND - LT OLIVE BROWN (10YR 5/4), PG, FTUM GR, SR TO SA, 5% SILT, NON-PLASTIC, NO TO WEAK CEMENTATION, DRY, NO ODOR.
0.5		0.0	13/60				
							END OF BORING @ 0.5' BGS

Mike Hoffman

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SK-SSB-SA7-SB-0.0-0.5' Date/Time 4/25/13 @ ~~1425~~ (hr 4/25) 1440

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	
	EPA 6020	
	EPA 7471 (Soil)	
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 2.5Y 5/4

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Nikki Hoffman **PG Registration #** 2735

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-543B	Subarea: 7	Date Started: 4/25/13	Date Completed: 4/25/13
Client: DOE	Project Name/#: ~~SSFL 65258-63370.1200.002.223.02231.33PH3~~ PB		Total Depth: 0.5
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? (Yes) or No	Drill Method: SCTOE HAMMER		Depth Drilled Into Bedrock: 0.0
Radiological Background: 14 mean / 90 cpm	Borehole diameter: 2.25"		
PID Background: 0.0	Depth to GW: N/A		Sampling Method: SCTOE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK ARMS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0.5	0.5/0.5	0.0	14/14 17/12	SL-543B-SA2-SB-0.0-0.5	1440	SP	SAND- LT. OLIVE BROWN (5Y 5/4), 95% SAND, F TO M GR, T. C. GR SR TO SA, 5% SILT, NON-PLASTIC, T. ROOTS, NO TO WEAK CEMENTATION, DRY, NO ODOR.
							END OF BORING @ 0.5' BGS

CDM Smith

BORING LOG AND SAMPLING RECORD

Page 1 of 1

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-543C-SA7-SB-0.0-0.5 Date/Time 4/25/12 1450

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	
	EPA 6020	
	EPA 7471 (Soil)	
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present: Yes (No)
2. Percentage Fill (%): 0
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 2.5Y 5/4

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-543C	Subarea: 7	Date Started: 4/25/13	Date Completed: 4/25/13
Client: DOE	Project Name/#: ~~SSFL-65258-63376.1203.002.223.02231.33PH3~~ PB		Total Depth: 0.5
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: SLIDE HAMMER		Depth Drilled Into Bedrock: 0.0
Radiological Background: 13mrem/79cpm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0.5	0.5/0.5	0.0 0.0	13/64 13/64	SC-543C-SA7-SB-0.0-0.5	1450	SP	SAND, LT. OLIVE BROWN (2.5Y 5/4), PG, F TO M GR, T. CGR, SR TO SA, T. SILT, NON PLASTIC, T. FINE GRAVEL, NO CEMENTATION, DRY, NO ODOR.
							END OF BORING @ 0.5' BGS

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
		Geologist:	Total Depth:

Project: SSFL

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SC-5930-S97-SB-0.0-0.5' Date/Time 4/25/13 1500

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER.

Analysis

Metals	EPA 6010	
	EPA 6020	
	EPA 7471 (Soil)	
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 2.5Y 5/4

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-543D	Subarea: 7	Date Started: 4/25/13	Date Completed: 4/25/13
Client: DOE	Project Name/#: ~~SSFL-66258-63376.1203.002.223.02231.SSPW8~~ PB		Total Depth: 0.5
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: SLIDE HAMMER		Depth Drilled into Bedrock: 0.0
Radiological Background: 12mm/7cm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0 / 0.0	14/95 / 18/78	SL-543D-SA7-50-0.0-0.5	1500	SP-SM	SAND WITH SILT LT OLIVE BROWN (2.5Y 5/4), 90% SAND, FINE, F.C. GR, NON PLASTIC, NO TOWER CEMENTARY, DRY, NO ODOR.
0.5							END OF BORING @ 0.5' BGS

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SC-544-SA7-SB-0.0-0.5 Date/Time 4/9/13 @ 1305

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 2.5Y 6/4

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-544	Subarea: 7	Date Started: 4/9/13	Date Completed: 4/9/13
Client: DOE	Project Name/#: ~~SSFL-65258-03370.1203.002.223.02231.SSFH8~~ SM 12512		Total Depth: 2.4'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 2.4'
Radiological Background: 13mrem/80cpm	Borehole diameter: 2.25"		
PID Background: 0.2 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.1	14/97	SC-544 S47-SB 0.0 0.5	1305	SP	SAND - LIGHT YELLOWISH BROWN (2.5Y 6/4), PG, F TO M GR. SUBROUNDED, TRACE SILT, NON-PLASTIC, NO TO WEAK CEMENTATION, TRACE ROOTS, DRY, NO ODOR. POSSIBLE WEATHERED BEDROCK
1.0	0.5/0.5	0.1	13/86				
2.0	0.5/0.5	0.1	13/80				
	0.5/0.5	0.1	13/83				
							REFUSAL @ 2.4'; 1.8'
3.0							

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Pamela Hartman PG 9045

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. Cortes

Sample ID SL-545A-SA7-SB-0.0-0.5 Date/Time 6/3/13 1450

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): (DPT) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Vidal Cortes

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Soil	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediments	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

1 DPT 55 Sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No
2. Percentage Fill (%) None
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color yel brn (10YR 5/6) mottled w/ lt yel brn (10YR 6/4)

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-545A	Subarea: 7	Date Started: 6-3-13	Date Completed:
Client: DOE	Project Name/#: ~~SSFL-66258-63370.1203.002.220.02201.SSPHS~~ SMIASLA		Total Depth: 0.5
Company Name: CDM SMITH	Drill Contractor/Driller: Strong arm		
GPS collected? Yes or No	Drill Method: DPT		Depth Drilled into Bedrock: NA
Radiological Background: γ=12 β=99	Borehole diameter: 2.25		
PID Background: 0.0	Depth to GW: NA		Sampling Method: DPT Sleeves
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: [signature] #7735		Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
Sample 0.0-0.5	0.5/0.5	0.0 0.0	12/99 12/54	SL-545A SA7-SB 0.0-0.5	1450	SP	SAND, yel brn (10YR 5/6) mottled w/lt yel brn (10YR 6/4), Fgr, pg, sr to sa, quartz, dry, <5% silt, to amt gravel F angular — 2.5
1							Ceased Advancement of Boring @ 0.5

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. GK

Sample ID SL-545B-SA7-SB-0.0-0.5 Date/Time 6-3-13 1500

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): (DPT) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Vidal Cortes

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Soil/Sediment	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

1 DPT SS Sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** None

3. **Fill Description (circle all that apply)**

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel	(N/A)	
Other _____		

Is Staining Present Yes (No)

Color dk yel brn (10YR 4/4) mottled w/ yel brn (10YR 5/4)

Odor

1. **Odor Strength (circle one)**: (None) Slight Strong

2. **Odor Description (circle one)**: Organic Petroleum Chemical (N/A) Other _____

Moisture Condition (circle one): (Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-545 B	Subarea: 7	Date Started: 6-3-13	Date Completed:
Client: DOE	Project Name/#: ~~SSFL-85258-83370.1203.002.229.02201.SSPH3~~ SM 12512		Total Depth: 0.5
Company Name: CDM SMITH	Drill Contractor/Driller: Strongarm		
GPS collected? Yes or No	Drill Method: DPT		Depth Drilled Into Bedrock: NA
Radiological Background: 8-12 αB-80	Borehole diameter: 2.25		
PID Background: 0.0	Depth to GW: NA		Sampling Method: DPT Sleeve
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: [signature] #7735		Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
SAMPLE 0.0-0.5	0.5/0.5	0.0 0.0	12/85 12/60	SL-545B SA7-SB 0.0-0.5	1500	SP	SAND, dk yel brn (10YR 4/4) mottled w/ yel brn (10YR 5/4) Fgn, pg, Sr to sa, quartz, dry, <5% silt, tr to Few amt Fine gravel sr to sa. — 0.5
1							Ceased advancement of boring @ 0.5' bls

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. Cortez

Sample ID SL-545C-SA7-SB-0.0-0.5 Date/Time 6-3-13 1510

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): (DPT) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Vidal Cortes

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Energetics	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Antifouling	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

1 DPT SS Sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No
2. Percentage Fill (%) None
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color brn 7.5YR 4/4 mottled w/brn (7.5YR 5/3)

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-545C	Subarea: 7	Date Started: 6-3-13	Date Completed: →
Client: DOE	Project Name/#: ~~SSFL-65258-63376.1208.002.223.02234.SSFL3~~ SM DSIA		Total Depth: 0.5
Company Name: CDM SMITH	Drill Contractor/Driller: Strongarm		
GPS collected? Yes or No	Drill Method: DPT		Depth Drilled into Bedrock: NA
Radiological Background: γ = 12 αβ = 95	Borehole diameter: 2.25		
PID Background: 0.0	Depth to GW: NA		Sampling Method: DPT SS Sleeve
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: [signature] #7735		Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
SAMPLE 0.0-0.5	0.5/0.5	0.0 0.0	12/81 12/48	SL-545C SA7-SB 0.0-0.5	1510	SP	SAND, brn (7.5YR 4/4) mottled w/ brn (7.5YR 5/3) F grn, tr to few med grn, mod pg, sr to sa, quartz < 5% silt, dry, tr amt Fine gravel sr to sa — 0.5
							Ceased advancement of boring @ 0.5

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Vidal Gutierrez

Sample ID SL-546-SA7-SB-00-05 Date/Time 4/9/13 @ 1415

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	
	EPA 6020	
	EPA 7471 (Soil)	
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** (Yes) No
2. **Percentage Fill (%)** TRACE (<5%)
3. **Fill Description (circle all that apply)**

(Asphalt) Metal Plastic
Concrete Wood Glass
Igneous/Metamorphic Gravel N/A
Other _____

Is Staining Present Yes (No)

Color 10YR 4/4

Odor

1. **Odor Strength (circle one)**
(None) Slight Strong

2. **Odor Description (circle one)**
Organic Petroleum Chemical
(N/A) Other _____

Moisture Condition (circle one)
(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments BROKEN ASPHALT ALSO OBSERVED ON SLOPE AROUND BOREHOLE AREA - APPEARS TO HAVE BEEN USED FOR STABILIZATION/EROSION CONTROL.

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-546	Subarea: 7	Date Started: 4/9/13	Date Completed: 4/9/13 @ 1415
Client: DOE	Project Name/#: ~~SSFL-65250-00376.4203.002.223.02231.SSPH3~~ SM 12512		Total Depth: 0.8'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER.		Depth Drilled Into Bedrock: 0.8
Radiological Background: 14 mrem/101 cpm	Borehole diameter: 2.25"		
PID Background: 0.2 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.4 0.5	0.2 0.3 0.8	15/103 14/78 15/108	DG-546-SM-SB 0.0-0.5	1415	SP	SAND-DARK YELLOWISH BROWN (10YR 4/4), SAND, FT OR GR, SR TO SA, TRACE SILT, NON-PLASTIC, NO TO WEAK CEMENTATION TRACE GRAVEL-SIZED ASPHALT FRAGMENTS, NO ODOR, DRY.
1.0							REFUSAL @ 0.8', 1.1'.
2.0							

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Pamela Hart PH 9045

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Vidal Cotz

Sample ID SL-547-SA7-SB-0.0 0.5 Date/Time 4/9/13 @ 1510

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** (0)
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 5/4

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-547	Subarea: 7	Date Started: 4/9/13	Date Completed: 4/9/13
Client: DOE	Project Name/#: ~~SSFL-65258-63376.1203.002.223.02231 SSPH3~~ SM 12S12		Total Depth: 1.1
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 1.1
Radiological Background: 15 mrem / 110 cpm	Borehole diameter: 2.25"		
PID Background: 0.0	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0	16/100	SL-547	1510	SP	SAND YELLOWISH-BROWN (10YR 5/4), 95% SAND, PG, F TO M GR., SR TO SA, 5% SILT, NON PLASTIC, NO TO MODERATE CEMENTATION, DRY, NO ODOR.
	0.5/0.5	0.0	13/66	SA7-53			
1.0		3.2	15/90				
							REFUSAL @ 1.1', 1.3' BGS
2.0							

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

[signature] PG 9045

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: STEVEN MERCER

Sample ID: SC-548-SA7-SB-0.0-0.5' Date/Time: 4/10/13 @ 1350

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: N/A

Field Geologist: MARK PETERS

Sampler: STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 2.5Y 5/3

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-548	Subarea: 7	Date Started: 4/10/13	Date Completed: 4/10/13
Client: DOE	Project Name/#: ~~SSFL-65258-83376.1203.002.223.02231.SSPHS~~ SM 13512		Total Depth: 1.1'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled Into Bedrock: 0.1'
Radiological Background: 15mm / 99 cpm	Borehole diameter: 2.25"		
PID Background: 0.3	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.3	14/92	SL-548	1350	SP	SAND - LIGHT OLIVE BROWN (2.5Y 5/3), PG, FTOMGR, SR TO SA, 5% SILT, NON PLASTIC, DRY, NO ODOR, NO TO WEAK CEMENTATION. 95% SAND (MPY/C)
		0.3	12/78	SA7-03			
1.0	0.5/0.5	0.3	14/54			SP	WEATHERED SANDSTONE SAND, PG, FTOMGR., LIGHT OLIVE BROWN (2.5Y 5/4), SR TO SA, 5% WELL CEMENTED ANGULAR TO SA GRAVEL-SIZED SANDSTONE FRAGMENTS, TRACE SILT, NON-PLASTIC, DRY, NO ODOR.
2.0							REFUSAL @ 1.1', 0.7'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	φ: diameter	bgs: below ground surface

Pamela Hunt PO# 9045

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V.G.L

Sample ID SL-549-SA7-SB-0.0-0.5 Date/Time 4/10/13 @ 1440

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present: Yes (No)
2. Percentage Fill (%): 0
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 2.5Y 5/4

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DE 549	Subarea: 7	Date Started: 4/10/13	Date Completed: 4/10/13
Client: DOE	Project Name/#: ~~SSFL-05258-00376.1200.002.223.02234.SSPH3~~ SMBSA		Total Depth: 1.8
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled Into Bedrock: 1.8
Radiological Background: 0.2 ppm	Borehole diameter: 2.35"		
PID Background: 13 mm / 98 cm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MA

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.8/0.5	0.2 0.2	13/104 13/103	SC-549 SA7-55 0.0-0.5	1440	SP	SAND (WEATHERED SANDSTONE) - LIGHT OLIVE BROWN (2.5Y 5/4), PG, F TO MED, SA TO SA, TRACE SILT, NON PLASTIC. NO CEMENTATION TO STRONG CEMENTATION (24-90% STRONGLY CEMENTED), DRY, NO ODOR.
1.0		0.2	14/92				
2.0		0.2	14/78				REFUSAL @ 1.0', 1.8'

Pamela Hall PG9045

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: STEVEN MERCER

Sample ID: SL-551-SA7-SB-0.0-0.5 Date/Time: 4/10/15@ 0955

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: N/A

Field Geologist: MARK PETERS

Sampler: STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** (0)
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 4/4

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-551	Subarea: 7	Date Started: 4/10/13	Date Completed: 4/10/13
Client: DOE	Project Name/#: ~~SSFL-05256-53376.1203.002.223.02231.SSFH3~~ SM 12512		Total Depth: 3.0
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 0.0
Radiological Background: 15 mrem / 96 cpm	Borehole diameter: 2.25"		
PID Background: 0.3 ppm	Depth to GW: N/A		Sampling Method: SLIDEHAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.3	15/107	SL-551-SA7-SB-0.0-0.5	0955	SP-SM	SAND WITH SILT - DARK YELLOWISH BROWN (10YR 4/4), 90% SAND, PE, F TO MGR, SR TO SA, 10% SILT, NON-PLASTIC, T. GRAVEL (SANDSTONE), DRY, NO ODOR
		0.3	13/72				
1.0		0.4	12/78				
2.0		0.3	14/48				BECOMING DRY TO MOIST 2.2-3'.
3.0		0.3	15/84	SL-551-SA7-SB 2.5-3.0	1100		
							REFUSAL @ 3.0' (2X)

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Pam [illegible] PF 9045

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-551-SA7-SB-2.0-3.0 SM 4/10/13 **Date/Time** 4/10/13 @ 1100

Matrix (circle one): (Soil) Sediment Water

Start Depth 2.0

End Depth 3.0

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 4/4

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments _____

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Vidal Cortez

Sample ID SL-SS2-SA7-SS2-0.0-0.5 Date/Time 4/10/13 @ 0905

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MCRCEN.

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 2.5Y 7/2

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: 06-552	Subarea: 7	Date Started: 4/10/13	Date Completed: 4/10/13
Client: DOE	Project Name/#: ~~SSFL-00250-00070.1200.002.220.02231.00PH3~~ SM 12512		Total Depth: 0.5
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 0.5
Radiological Background: 13mrem / 68cpm	Borehole diameter: 2.25"		
PID Background:	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5	0.3	14/65	SL-SS2-SA7-SB	0905	SP	SAND (SP) - PALE BROWN (2.5Y 7/2), PG, FTOMEDIUM, SA TO SA, TR. SILT, NON PLASTIC, NO TO MODERATE CEMENTATION, TRACE ROOTS, DRY, NO ODOR.
		0.3	13/78	0.0-0.5			
1.0							REFUSAL @ 0.5' (2x)
2.0							

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Pamela Hart PG 9045

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: STEVEN MERCER

Sample ID: SC-SS3-SA7-SB-0.0-0.5 Date/Time: 4/11/13 @ 0810

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: N/A

Field Geologist: MARK PETERS

Sampler: STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean Inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 2.5Y 6/2

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Pamela Hunter **PG Registration #** 9045

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-553	Subarea: 7	Date Started: 4/11/13	Date Completed: 4/11/13
Client: DOE	Project Name/#: ~~SSFL-65255-63376.4203.002.223.02234.SSFH0~~ SM 12512		Total Depth: 0.5'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled Into Bedrock: 0.5'
Radiological Background: 13mrem/100cpm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5	0.0	14/76	SL-553	0810	SP	WEATHERED SANDSTONE SAND, LIGHT BROWNISH GRAY (2.5Y 6/2), PG, F TO M GR, SR TO SA, ~~[illegible]~~ (MP 4/11) TRACE SILT, NON-PLASTIC, WEAK TO STRONG CEMENTATION, DRY, NO ODOR.
	0.5	0.0	13/72	SA2-SB			
1.0							
							REFUSAL @ 0.5' (2x)
2.0							

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	φ: diameter	bgs:below ground surface

Pamela Hanl

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SC-SS4-SA7-SB-0.0-0.5 Date/Time 4/11/13 @ 0900

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) 0
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 3/4

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ PG Registration # 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-554	Subarea: 7	Date Started: 4/11/13	Date Completed: 4/11/13
Client: DOE	Project Name/#: ~~SSFL-65258-03370.1200.002.220.02231.SSFV13~~ SM 12512		Total Depth: 2.2
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: —
Radiological Background: 13mm / 99cm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/	0.0	13/82	SL-554-S47-SB-0.0-0.5	0900	SW	SAND - DARK BROWN (10YR 2/2), WG, F TO C GR., SR TO SR, TRACE SILT, NON-PLASTIC, NO CEMENTATION, DRY, NO ODOR.
	0.5	0.0	13/72			SP	
1.0	0.5/0.5	0.0	13/48				SAND WITH SILT - DARK YELLOWISH BROWN (10YR 3/4), 80% SAND, PG, F TO MGR, T. C. GR., 10% SILT, NON-PLASTIC, 10% ORGANICS (PLANT FRAGMENTS), NO CEMENTATION, DRY, NO ODOR.
	0.5/	0.0	14/48				~~[illegible]~~ NO ORGANICS 0.8-2.2' BGS.
2.0	0.5	0.0	14/66				

REFUSAL @ 2.2', 1.8'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

[signature] PO# 9045

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (uR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SC-555-SA-SB-0.0-0.5 Date/Time 4/11/13 @ 1015

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) 0

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 3/4

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ PG Registration # 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: D6-555	Subarea: 7	Date Started: 4/11/13	Date Completed: 4/11/13
Client: DOE	Project Name/#: ~~SSFL-05258-00376.1203.002.223.02231.SSPH3~~ SM 12512		Total Depth: 2.1
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 0.0
Radiological Background: 13mrem/68cpm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0 0.0	12/75 13/48	SL-555-SA7-SB-0.0-0.5	1015	SM	SILTY SAND - DARK YELLOWISH BROWN (10YR3/4), 80% SAND, PG, F GR, 20% SILT, NON-PLASTIC, TRACE ORGANICS (LEAF FRAGMENTS), DRY, NO ODOR. NO CEMENTATION (MY/11)
1.0	0.5/0.5	0.0	11/108				
2.0	0.5/0.5	0.0	13/60			SP-SM	SAND WITH SILT - DARK YELLOWISH BROWN (10YR3/4) 90% SAND, PG, F TO M GR, SR TO SA, 10% SILT, NON-PLASTIC, NO CEMENTATION, DRY, NO ODOR.
							REFUSAL @ 2.1', 2.0'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Pamela Clark PG 9145

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 -- Field Sample Data Sheet

CDM Smith

FSDS Checked By

Sample ID SC-557-SA7-SB-0.0-0.5 Date/Time 4/17/13 @ 0940

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) 0
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 2.5 Y 5/4

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG 557	Subarea: 7	Date Started: 4/17/13	Date Completed: 4/17/13
Client: DOE	Project Name/#: ~~SSFL-65258-83376.1203.002.223.02231.SSPH3~~ SM 12512		Total Depth: 4.2
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled Into Bedrock: 2.3
Radiological Background: 15 mrem / 93 cpm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.4 / 0.5	0.0 / 0.0	14/66 / 15/54	SL-557-SA7-SB-0.0-0.5	0940	SP-SM	SAND WITH SILT - LIGHT OLIVE BROWN (2.5Y 5/4) 85% SAND, PG, FGR, 15% SILT, ~~NON-PLASTIC~~ LOW PLASTICITY (MPY/17), TRACE ROOTS, NO CEMENTATION, DRY, NO ODOR.
1.0		0.0	15/54				GRADING TO DARK YELLOWISH BROWN (10YR 3/4) 0.7-0.5' BGS.
2.0		0.0	15/84			SP	SAND - OLIVE BROWN (2.5Y 4/3), PG, F TO MGR, SR TO SA, T SILT, NON-PLASTIC, NO TO WEAK CEMENTATION, DRY, NO ODOR. WEATHERED SANDSTONE.
3.0		0.0	15/84				GRADING TO PALE BROWN (2.5Y 7/3) 3.0-3.5'
4.0		0.0	14/84				
5.0							REFUSAL @ 4.2 (2.X)

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Pamela Hart PG# 9045

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By V. Gt

Sample ID SL-~~661~~ 558 SA7-SB 0.0-0.5 Date/Time 4/16/13 @ 14:35

Matrix (circle one): Soil (circled) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches Feet (circled)

Check If Composite ☐

Collection Method (circle one): DPT Slide Hammer (circled) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N (circled) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 4/3

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Pamela Hook **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-558	Subarea: 7	Date Started: 4/16/13	Date Completed: 4/17/13
Client: DOE	Project Name/#: ~~SSFL 65268-000TO-1269.002.220.02291.30PM3~~ SM 10516		Total Depth: 4.3'
Company Name: CDM SMITH		Drill Contractor/Driller: N/A	
GPS collected? (Yes) or No		Drill Method: HAND AUGER	Depth Drilled into Bedrock: 0.3'
Radiological Background: 12 mrem / 165 cpm		Borehole diameter: 2.25"	
PID Background: 0.0 ppm		Depth to GW: N/A	Sampling Method: SLIDE HAMMER / HAND AUGER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No.:	Geologist: MARK ARTERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (uR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0	0.5/0.5	0.0	12/11	SL-558-SS97-SB-0.0-0.5'	1435	SP-SM	SAND WITH SILT - BROWN (10YR 4/3), 90% SAND, FG; F-GR, 10% SILT, NON PLASTIC, NO CEMENTATION, DRY, NO OR
	0.4/0.5	0.0	14/13				
1.0	1	0.0	12/66				
	0.5/0.5	0.0	11/12				
2.0	1	0.0	11/12				
	0.4/0.5	0.0	12/66				
3.0				SL-558-SS97-SB-3.0-4.0'	4/17/13 @ 0900		
	0.4/0.5	0.0	11/12				
4.0						SP	SAND - LIGHT OLIVE BROWN (2.5Y 5/4), FG, F TO MGR, T. SILT, NON PLASTIC, NO CEMENTATION, DRY TO MOIST, NO ODOR.
5.0							REFUSAL @ 4.3' BGS

CDM Smith

BORING LOG AND SAMPLING RECORD

Page 1 of 1

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Pamela Hart 4/30/13

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: STEVEN MERCER

Sample ID: S-558-SA7-SB-3.0-4.0 Date/Time: 4/17/13 @ 0900

Matrix (circle one): (Soil) Sediment Water

Start Depth: 3.0

End Depth: 4.0

Depth Units (circle one): Inches (Feet)

Check if Composite: ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: N/A

Field Geologist: MARK PETERS

Sampler: STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) 0
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 4/3

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments NA

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-559-SA7-SB-0.0-0.5 Date/Time 4/16/13 @ 0845

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) 0

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 4/4

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ PG Registration # 9075

Additional Comments N/A

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-SS9-SA7-SS-2.0-5.0 Date/Time 4/16/13 @ 0925

Matrix (circle one): (Soil) Sediment Water

Start Depth 2.0

End Depth 5.0

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel	(N/A)	
Other		

Is Staining Present Yes (No)

Color 10YR 4/4

Odor

1. **Odor Strength (circle one)**: (None) Slight Strong
2. **Odor Description (circle one)**: Organic Petroleum Chemical (N/A) Other

Moisture Condition (circle one): (Dry) Moist Wet

PG Signature [signature] **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-559	Subarea: 7	Date Started: 4/16/13	Date Completed: 4/16/13
Client: DOE	Project Name/#: ~~SSFL-05288-63376.1203.002.223.02251.SSFH3~~ PB		Total Depth: 2.8'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 0.0
Radiological Background: 13 mrem/60 cm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER/HAND AUGER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.3	0.0 0.0	13/73 13/60	SC-559-SA7-33 2.0-0.5	0845	SM	SILTY SAND. DARK YELLOWISH BROWN (10YR 4/4), 75% SAND, PG, F TO MGR, T. C. GR., SR TO SA, 25% SILT, LOW PLASTICITY, T. F. GRAVEL. NO CEMENTATION, DRY, NO ODOR.
1.0		0.0	13/42			SP-SM	GRADING TO SAND WITH SILT (90% SAND, 10% SILT) 0.8-1.1' BGS.
2.0		0.0	13/54	SC-559-SA7-33 2.0-3.0'	0925		~~REFUSAL @ 2.1', 2~~ (mp 4/16) (mp 4/16)
							REFUSAL @ 2.1', 2.8' BGS.

Pamela Hartz #9045

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By STEVEN MERCER

Sample ID SL-560-SA7-SB-0.0-0.5 Date/Time 4/16/13 @ 1020

Matrix (circle one): Soil (circled) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches Feet (circled)

Check If Composite ☐

Collection Method (circle one): DPT Slide Hammer (circled) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N (circled) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

NA – Not Applicable

FSDS Revision 2.0 5/30/2012

Pamela Hart #9045

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present: Yes / (No)
2. Percentage Fill (%): 0

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes / (No)

Color 10YR 4/4

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments _____

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-560	Subarea: 7	Date Started: 4/16/13	Date Completed: 4/16/13
Client: DOE	Project Name/#: ~~SSFL-85258-53370.1203.002.223.02231.SSFH3~~ PB		Total Depth: 4.3
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 0.2
Radiological Background: 13mrem/79cm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0 / 0.0	13/85 / 11/66	SL-560-SA7-SB-[illegible]	1020	SM	SILTY SAND, DARK YELLOWISH BROWN (10YR 4/4), 80% SAND, PG, FTO MGR, SR TO SA, 20% SILT, LOW PLASTICITY, TRACE FINE GRAVEL, NO CEMENTATION, DRY, NO ODOR.
1.0		0.0	11/72				
2.0		0.0	11/72				
3.0		0.0	11/78				
4.0		0.0	13/60	SL-560-SA7-SB-3.0-4.0'	1105	ML	SANDY SILT-DARK YELLOWISH BROWN (10YR 4/3) 60% SILT, LOW TO MODERATE PLASTICITY, 40% SAND, FINE GRAINED, PG, TRACE CLAY, DRY TO MOIST, NO ODOR.
						SP	SAND-LIGHT OLIVE BROWN (~~10YR~~ 4/6) 2.5Y 5/4), PG, FTO MGR, SR TO SA, TRACE SILT, NON-PLASTIC, NO CEMENTATION, DRY, NO ODOR.
5.0							REFUSAL @ 4.3' BGS & 4.3' BGS

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Pamela Hand #9045

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: STEVEN MERCER

Sample ID: SL-560-SA7-SB-3.0-4.0 Date/Time: 4/16/13 1105

Matrix (circle one): (Soil) Sediment Water

Start Depth: 3.0

End Depth: 4.0

Depth Units (circle one): Inches (Feet)

Check If Composite: ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: N/A

Field Geologist: MARK PETERS

Sampler: STEVE MERCER

Analysis

Metals	EPA 6010	X	
	EPA 6020	X	
	EPA 7471 (Soil)	X	
	EPA 7470 (Water)		
Fluoride	EPA 300.0/9056		
SVOCs	EPA 8270		
TIC	EPA 8270		
PAHs	EPA 8270 SIM	X	
1,4 Dioxane	EPA 8270 SIM		
Dioxins	EPA 1613	X	
PCBs/PCTs	EPA 8082	X	
Perchlorate	EPA 314.0/331		
Perchlorate Confirmation	EPA 6850/6860		
pH	EPA 9045 (Soil)	X	
	EPA 9040 (Water)		
Hexavalent Chromium	EPA 7196/7199		
Herbicides	EPA 8151		
Pesticides	EPA 8081		

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color ~~10YR 5/4~~ SM 4/16/13 10YR 4/3

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Pamela Park **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-561	Subarea: 7	Date Started: 4/16/13	Date Completed: 4/16/13
Client: DOE	Project Name/#: ~~SSFL-65258-63378.1203.002.223.02234.SSPHS~~ PB		Total Depth: 1.9'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled into Bedrock: 0.6
Radiological Background: 14mm / 10.5cm	Borehole diameter: 2.25"		
PID Background: 0.0 ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0 0.0	13/60	SL-661-SA7-SB-0.0-0.5	1330	SM	SILTY SAND BROWN (10YR 4/3), 80% SAND, PG, FGR, 20% SILT, LOW PLASTICITY, TRACE ROOTS, NO CEMENTATION, NO ODOR, DRY.
1.0	0.5/0.4	0.0	12/60				
	0.5/0.4	0.0	12/66			SP	SAND YELLOWISH BROWN (10YR 5/6), 95% SAND, PG, FROM GR. T. C. GR., SR TO SA, 5% SILT, NON-PLASTIC, NO TO WEAK CEMENTATION, DRY TO MOIST NO ODOR
2.0							

REFUSAL @ 1.9', 1.4'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

[signature] #9045

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

561 V.L. 4/16/13 FSDS Checked By

Sample ID SL-66f-SA7-SB-0.0-0.5 Date/Time 4/16/13 @ 1330

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler STEVE MERCER

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

Pamela Hoot #9545

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10 YR 4/3

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** _____

Additional Comments _____

NA – Not Applicable

SSFL Phase 3 -- Field Sample Data Sheet

CDM Smith

FSDS Checked By _____

Sample ID SL-562-SA7-SB-0.0-0.5 Date/Time 4/26/[illegible] @ 0825

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler ~~STEVE MERCER~~ (CM 4/16) MARK JUSAYAN

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 2.5Y 5/6

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments N/A

NA – Not Applicable

Santa Susana Field Laboratory/94489

Location ID: DG-562	Subarea: 7	Date Started: 4/26/13	Date Completed: 4/26/13
Client: DOE	Project Name/#: ~~SSFL-65258-83376.1203.002.223.02231.SSPH3~~ PB		Total Depth: 2.8'
Company Name: CDM SMITH	Drill Contractor/Driller: N/A		
GPS collected? Yes or No	Drill Method: HAND AUGER		Depth Drilled Into Bedrock: 0.0'
Radiological Background: Hmrn/75cpm	Borehole diameter: 2.25"		
PID Background: 0.0ppm	Depth to GW: N/A		Sampling Method: SLIDE HAMMER
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.:		Geologist: MARK PETERS

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.1	13/88	SL-562-SA7-SB-0.0-0.5	0825	SP	SAND - LIGHT OLIVE BROWN (2.5Y 5/6), PG, F TO M GR, T. C. GR, SR TO SA, T. 10% SILT, NON PLASTIC, 20% OF MATRIX IS WEAK TO MODERATELY-CEMENTED SANDSTONE CLASTS (F. TO C. GRAVEL SIZED), DRY, NO ODOR.
	0.5/0.5	0.1	14/60				
1.0		1.7	13/78				T. SR TO SA F. GRAVEL (NOT WEATHERED SANDSTONE) 0.5-
	0.5/0.5						GRADING TO SP-SM - (90% SAND, 10% SILT) 1.5-2.0' BGS.
2.0		0.3	13/102				
	0.3/0.3			SL-562 SA7-SB 2.0-3.0'	0920	SP-SM	
							REFUSAL @ 2.0', 2.8' BGS.

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By

Sample ID SL-562-SA7-SB-2.0-3.0 Date/Time 4/26/13 @ 0920

Matrix (circle one): (Soil) Sediment Water

Start Depth 2.0

End Depth 3.0

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler MARK TUSAYAN

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present: Yes (No)
2. Percentage Fill (%): 0

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color 10YR 5/6

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ PG Registration # 7735

Additional Comments (MAG/LB) MAJORITY OF RECOVERY FROM TOP ½-FOOT OF SAMPLE INTERVAL, DUE TO SUCTION HAMMER REFUSAL NEAR BOTTOM OF INTERVAL. pH SAMPLE COLLECTED FROM HAND AUGER.

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** 0

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color ~~10 YR 3/4~~ SM 9/16/13 10 YR 4/3

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Pamela Mark **PG Registration #** 9045

Additional Comments N/A

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By PH

Sample ID FB-041113 Date/Time 4/11/13 15:00

Matrix (circle one): Soil Sediment (Water)

Start Depth N/A

End Depth N/A

Depth Units (circle one): Inches NA Feet

Check If Composite ☐

Collection Method (circle one): NA
DPT Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N FD (FB) RB

Parent Sample ID N/A

Field Geologist NA

Sampler Vidal Cortes

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	
	EPA 7470 (Water)	X
Fluoride	EPA 300.0/9056	X
SVOCs	EPA 8270	X
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	X
pH	EPA 9045 (Soil)	
	EPA 9040 (Water)	X
Hexavalent Chromium	EPA 7196/7199	X
Herbicides	EPA 8151	X
Pesticides	EPA 8081	X

VOCs	EPA 8260	X
1,4 Dioxane	EPA 8260 SIM	X
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	X
Alcohols	EPA 8015	X
Terphenyls	EPA 8015	X
Nitrates	EPA 300.0/9056	X
Energetics	EPA 8330	X
Cyanide	EPA 9012	X
Formaldehyde	EPA 8315	X
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	
AMMONIA	EPA 350.1/350.3	X

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes No

2. **Percentage Fill (%)** _____

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature Pamela Hale **PG Registration #** 9645

Additional Comments LO+# 52298

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By PH

Sample ID FB-041113 Date/Time 4/11/13 15:00

Matrix (circle one): Soil Sediment (Water)

Start Depth N/A

End Depth N/A

Depth Units (circle one): Inches NA Feet

Check If Composite ☐

Collection Method (circle one) NA: DPT Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N FD (FB) RB

Parent Sample ID N/A

Field Geologist NA

Sampler Vidal Cortes

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	
	EPA 7470 (Water)	X
Fluoride	EPA 300.0/9056	X
SVOCs	EPA 8270	X
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	X
pH	EPA 9045 (Soil)	
	EPA 9040 (Water)	X
Hexavalent Chromium	EPA 7196/7199	X
Herbicides	EPA 8151	X
Pesticides	EPA 8081	X

VOCs	EPA 8260	X
1,4 Dioxane	EPA 8260 SIM	X
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	X
Alcohols	EPA 8015	X
Terphenyls	EPA 8015	X
Nitrates	EPA 300.0/9056	X
Energetics	EPA 8330	X
Cyanide	EPA 9012	X
Formaldehyde	EPA 8315	X
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	
AMMONIA	EPA 350.1/350.3	X

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes No

2. **Percentage Fill (%)** _____

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature Pamela Hall **PG Registration #** 9045

Additional Comments Lot # 52298

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By PH

Sample ID FB-041613 Date/Time 4/16/13 15:15

Matrix (circle one): Soil Sediment (Water)

Start Depth N/A

End Depth N/A

Depth Units (circle one): Inches ~~Feet~~ PH 4/16/13

Check if Composite ☐ PH 4/16/13

Collection Method (circle one): DPT Slide Hammer ~~Hand Auger/Slide Hammer~~ PH 4/16/13 Trenching Sediment

QC Type (circle one): N FD (FB) RB

Parent Sample ID N/A

Field Geologist N/A

Sampler Vidal Cortes

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	
	EPA 7470 (Water)	X
Fluoride	EPA 300.0/9056	X
SVOCs	EPA 8270	X
TIC	EPA 8270	~~X~~ V.C. PH 4/16/13
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	X
pH	EPA 9045 (Soil)	
	EPA 9040 (Water)	X
Hexavalent Chromium	EPA 7196/7199	X
Herbicides	EPA 8151	X
Pesticides	EPA 8081	X

VOCs	EPA 8260	X
1,4 Dioxane	EPA 8260 SIM	X
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	X
Alcohols	EPA 8015	X
Terphenyls	EPA 8015	X
Nitrates	EPA 300.0/9056	X
Energetics	EPA 8330	X
Cyanide	EPA 9012	X
Formaldehyde	EPA 8315	X
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	
AMMONIA	350.3	X
NITRITE	300.0	X
CHLORIDE	300.0	X
BROMIDE	300.0	X
PHOSPHATE	300.0	X
SULFATE	300.0	X

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes No

2. **Percentage Fill (%)** _____

3. **Fill Description (circle all that apply)**

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel		N/A
Other _____		

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**
   None Slight Strong

2. **Odor Description (circle one)**
   Organic Petroleum Chemical
   N/A Other _____

Moisture Condition (circle one)
Dry Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments _____

LOT # 53038

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By FH

Sample ID FB-041613 Date/Time 4/16/13 15:15

Matrix (circle one): Soil Sediment (Water)

Start Depth N/A

End Depth N/A

Depth Units (circle one): Inches Feet

Check If Composite ☐

Collection Method (circle one): DPT Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N FD (FB) RB

Parent Sample ID N/A

Field Geologist N/A

Sampler Vidal Cortes

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	
	EPA 7470 (Water)	X
Fluoride	EPA 300.0/9056	X
SVOCs	EPA 8270	X
TIC	EPA 8270	X V.G.
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	X
pH	EPA 9045 (Soil)	
	EPA 9040 (Water)	X
Hexavalent Chromium	EPA 7196/7199	X
Herbicides	EPA 8151	X
Pesticides	EPA 8081	X

VOCs	EPA 8260	X
1,4 Dioxane	EPA 8260 SIM	X
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	X
Alcohols	EPA 8015	X
Terphenyls	EPA 8015	X
Nitrates	EPA 300.0/9056	X
Energetics	EPA 8330	X
Cyanide	EPA 9012	X
Formaldehyde	EPA 8315	X
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	
AMMONIA	350.3	X
NITRITE	300.0	X
CHLORIDE	300.0	X
BROMIDE	300.0	X
PHOSPHATE	300.0	X
SULFATE	300.0	X

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes No

2. **Percentage Fill (%)** _____

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments _____

LOT # 53038

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By PH

Sample ID EB-041113 Date/Time 4/11/13 15:15

Matrix (circle one): Soil Sediment (Water)

Start Depth N/A

End Depth N/A

Depth Units (circle one): Inches NA Feet

Check If Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching NA Sediment

QC Type (circle one): N FD FB (RB)

Parent Sample ID N/A

Field Geologist Mark Peters

Sampler Vidal Cortes

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	
	EPA 7470 (Water)	X
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	
	EPA 9040 (Water)	X
Hexavalent Chromium	EPA 7196/7199	X
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes No

2. **Percentage Fill (%)** _____

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature Randi Hall **PG Registration #** 9045

Additional Comments LOT# 52298

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By PH

Sample ID EB-041113 Date/Time 4/11/13 15:15

Matrix (circle one): Soil Sediment (Water)

Start Depth N/A

End Depth N/A

Depth Units (circle one): Inches NA Feet

Check If Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching NA Sediment

QC Type (circle one): N FD FB (RB)

Parent Sample ID N/A

Field Geologist Mark Peters

Sampler Vidal Coitos

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	
	EPA 7470 (Water)	X
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	
	EPA 9040 (Water)	X
Hexavalent Chromium	EPA 7196/7199	X
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean Inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes No

2. **Percentage Fill (%)** _____

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature Randi Hale **PG Registration #** 9045

Additional Comments LOT# 52298

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By PA

Sample ID EB-041213 Date/Time 4/12/13 08:05

Matrix (circle one): Soil Sediment (Water)

Start Depth N/A

End Depth N/A

Depth Units (circle one): Inches Feet

Check If Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): N FD FB (RB)

Parent Sample ID N/A

Field Geologist Mark Peters

Sampler Vidal Cortes

Analysis

Metals	EPA 6010	
	EPA 6020	
	EPA 7471 (Soil)	
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	
PCBs/PCTs	EPA 8082	
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	X
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
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				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes No

2. **Percentage Fill (%)** _____

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments Lot # 52298

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By PA

Sample ID EB-041213 Date/Time 4/12/13 08:05

Matrix (circle one): Soil Sediment (Water)

Start Depth N/A

End Depth N/A

Depth Units (circle one): ~~Inches~~ Feet

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): N FD FB (RB)

Parent Sample ID N/A

Field Geologist Mark Peters

Sampler Vidal Cortes

Analysis

Metals	EPA 6010	
	EPA 6020	
	EPA 7471 (Soil)	
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	
PCBs/PCTs	EPA 8082	
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	X
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
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				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
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				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes No

2. **Percentage Fill (%)** _____

3. **Fill Description (circle all that apply)**

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel		N/A
Other _____		

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**
   None Slight Strong

2. **Odor Description (circle one)**
   Organic Petroleum Chemical
   N/A Other _____

Moisture Condition (circle one)
Dry Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments Lot # 52298

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By C Hartman 4/18/13

Sample ID EB-041813 Date/Time 4/18/13 15:00

Matrix (circle one): Soil Sediment (Water)

Start Depth N/A

End Depth N/A

Depth Units (circle one): ~~Inches~~ Feet V.Cortes 4/18/13

Check if Composite ☐ V.Cortes 4/18/13

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment V.Cortes 4/18/13

QC Type (circle one): N FD FB (RB)

Parent Sample ID N/A

Field Geologist PH 4/18/13 ~~N/A~~ Mark Peters

Sampler Vidal Cortes

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	
	EPA 7470 (Water)	X
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	
	EPA 9040 (Water)	X
Hexavalent Chromium	EPA 7196/7199	X not included PH 4/18/13
Herbicides	EPA 8151	
Pesticides	EPA 8081	X

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	X not included PH 4/18/13
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes No

2. **Percentage Fill (%)** _____

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature _____ **PG Registration #** _____

Additional Comments WATER LOT # 522918

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By [illegible] 4/18/13

Sample ID EB- 041813 Date/Time 4/18/13 15:00

Matrix (circle one): Soil Sediment **Water**

Start Depth N/A

End Depth N/A

Depth Units (circle one): ~~Inches~~ ~~Feet~~ V.G. 4/18/13

Check If Composite ☐ V.G. 4/18/13

Collection Method (circle one) V.G. 4/18/13: DPT Slide Hammer **Hand Auger/Slide Hammer** Trenching Sediment

QC Type (circle one): N FD FB **RB**

Parent Sample ID N/A

Field Geologist ~~N/A~~ Mark Peters PH 4/18/13

Sampler Vidal Cortes

Analysis

[illegible]	[illegible]	[illegible]
Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	
	EPA 7470 (Water)	X
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	
	EPA 9040 (Water)	X
Hexavalent Chromium	EPA 7196/7199	~~X~~ not included PH 4/18/13
Herbicides	EPA 8151	
Pesticides	EPA 8081	X

[illegible]	[illegible]	[illegible]
VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	~~X~~ not included PH 4/18/13
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

FSDS Revision 2.0 5/30/2012

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes No

2. **Percentage Fill (%)** _____

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature _____ **PG Registration #** 9048

Additional Comments WATER LOT # 522918

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By

Sample ID EB-041913 Date/Time 4/19/13 13:00

Matrix (circle one): Soil Sediment (Water)

Start Depth N/A

End Depth N/A

Depth Units (circle one): Inches Feet — V.Ghr 4/19/13

Check If Composite — V.Ghr 4/19/13

Collection Method (circle one): DPT (Slide Hammer) (Hand Auger/Slide Hammer) Trenching Sediment — V.Ghr 4/19/13

QC Type (circle one): N FD FB (RB)

Parent Sample ID N/A

Field Geologist Mark Peters

Sampler Vidal Cortes

Analysis

Metals	EPA 6010	
	EPA 6020	
	EPA 7471 (Soil)	
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	
PCBs/PCTs	EPA 8082	
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	✓

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	
TPH-EFH	EPA 8015	
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No

2. Percentage Fill (%) _____

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature _____ PG Registration # _____

Additional Comments WATER LOT # 52298

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By

Sample ID EB-041913 Date/Time 4/19/13 13:00

Matrix (circle one): Soil Sediment (Water)

Start Depth N/A

End Depth N/A

Depth Units (circle one): Inches Feet — V.G 4/19/13

Check If Composite 4/19/13 — V.G 4/19/13

Collection Method (circle one): DPT (Slide Hammer) (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): N FD FB (RB)

Parent Sample ID N/A

Field Geologist Mark Peters

Sampler Vidal Cortes

Analysis

Metals	EPA 6010		
	EPA 6020		
	EPA 7471 (Soil)		
	EPA 7470 (Water)		
Fluoride	EPA 300.0/9056		
SVOCs	EPA 8270		
TIC	EPA 8270		
PAHs	EPA 8270 SIM		
1,4 Dioxane	EPA 8270 SIM		
Dioxins	EPA 1613		
PCBs/PCTs	EPA 8082		
Perchlorate	EPA 314.0/331		
Perchlorate Confirmation	EPA 6850/6860		
pH	EPA 9045 (Soil)		
	EPA 9040 (Water)		
Hexavalent Chromium	EPA 7196/7199		
Herbicides	EPA 8151		
Pesticides	EPA 8081	✓	

VOCs	EPA 8260		
1,4 Dioxane	EPA 8260 SIM		
TPH-GRO	EPA 8015		
TPH-EFH	EPA 8015		
Glycols	EPA 8015		
Alcohols	EPA 8015		
Terphenyls	EPA 8015		
Nitrates	EPA 300.0/9056		
Energetics	EPA 8330		
Cyanide	EPA 9012		
Formaldehyde	EPA 8315		
NDMA	EPA 1625		
Organotin	NOAA Status and Trends, Krone et al.		
Methyl Mercury	EPA 1630		

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes No

2. **Percentage Fill (%)** _____

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature NA [signature] **PG Registration #** NA 2040

Additional Comments WATER LOT # 52298

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Paul Hatton

Sample ID EB-042413 Date/Time 4/24/13 15:00

Matrix (circle one): Soil Sediment (Water)

Start Depth N/A

End Depth N/A

Depth Units (circle one): Inches N/A ~~Feet~~ V. Gtz 4/24/13

Check if Composite V. Gtz 4/24/13

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): N FD FB (RB)

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler Vidal Cortes

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	
	EPA 7470 (Water)	X
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	
	EPA 9040 (Water)	X
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	X

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO.4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes No

2. **Percentage Fill (%)** _____

3. **Fill Description (circle all that apply)**

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel		N/A
Other _____		

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**
   None Slight Strong

2. **Odor Description (circle one)**
   Organic Petroleum Chemical
   N/A Other _____

Moisture Condition (circle one)
Dry Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments WATER LOT # 52298

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Pamela Hatton

Sample ID EB-042413 Date/Time 4/24/13 15:00

Matrix (circle one): Soil Sediment (Water)

Start Depth N/A

End Depth N/A

Depth Units (circle one): Inches N/A Feet

V. Cortes 4/24/13

Check if Composite V. Cortes 4/24/13 ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): N FD FB (RB)

Parent Sample ID N/A

Field Geologist MARK PETERS

Sampler Vidal Cortes

Analysis

Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	
	EPA 7470 (Water)	X
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	
	EPA 9040 (Water)	X
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	X

VOCs	EPA 8260	
1,4 Dioxane	EPA 8260 SIM	
TPH-GRO	EPA 8015	X
TPH-EFH	EPA 8015	X
Glycols	EPA 8015	
Alcohols	EPA 8015	
Terphenyls	EPA 8015	
Nitrates	EPA 300.0/9056	
Energetics	EPA 8330	
Cyanide	EPA 9012	
Formaldehyde	EPA 8315	
NDMA	EPA 1625	
Organotin	NOAA Status and Trends, Krone et al.	
Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes No

2. **Percentage Fill (%)** _____

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature _____ **PG Registration #** 9045

Additional Comments WATER LOT # 52298

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Stephanie L

Sample ID EB2-060313 Date/Time 06/03/2013 1530

Matrix (circle one): Soil Sediment (Water)

Start Depth

End Depth

Depth Units (circle one): Inches Feet

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): N FD FB (RB)

Parent Sample ID NA

Field Geologist NA

Sampler Pam Hartman

Analysis

	Metals	EPA 6010	X
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	X
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	X
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes No
2. **Percentage Fill (%)** _____
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature _____ **PG Registration #** _____

Additional Comments ASTM WATER LOT # ~~53088~~ 52298 SM6313

Subarea 7

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By [signature]

Sample ID EB1-060313 Date/Time 06/03/2013 1500

Matrix (circle one): Soil Sediment **Water**

Start Depth SSFL060313

End Depth

Depth Units (circle one): Inches Feet SSFL060313

Check if Composite ☐

Collection Method (circle one): **DPT** Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N FD FB **RB**

Parent Sample ID NA

Field Geologist NA

Sampler Pam Hartman

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	
		EPA 7470 (Water)	X
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	X
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Excavation	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes No

2. **Percentage Fill (%)** _____

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature _____ **PG Registration #** _____

Additional Comments ASTM WATER LOT #: ~~53038~~ 52298 SM0313

Subarea 7

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Stag Mysel

Sample ID EB2-100213 Date/Time 10/02/2013 1430

Matrix (circle one): Soil Sediment Water

Start Depth SM100213

End Depth

Depth Units (circle one): Inches Feet

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N FD FB RB

Parent Sample ID NA

Field Geologist NA

Sampler Pam Hartman

Analysis

	Parameters	Method	Analyze
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	
		EPA 7470 (Water)	X
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	X
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze
	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

Subarea 7

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No

2. Percentage Fill (%) _____

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature _____ **PG Registration #** _____

Additional Comments _____

ASTM WATER LOT # 53038

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By [signature]

Sample ID SL-501-NBZ-SB-0.0-0.5 Date/Time 12-6-13/1250

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Encore	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS Sleeve & 1 4oz jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** None
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color brown (7.5YR 4/4)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Mike Hoffman **PG Registration #** 7735

Additional Comments NA

DNR 12-6-13

NA – Not Applicable

Location ID: DG-501	Subarea: NBZ	Date Started: 12-6-13	Date Completed: 12-6-13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1st HA = 1.5, 2nd HA = 2.4
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? (Yes) or No		Drill Method: Slidehammer / HA	Depth Drilled into Bedrock: NA
Radiological Background: ~~X~~ = 14 α = 100		Borehole diameter: 3.25	
PID Background: ~~0.0~~ 0.0 ppm		Depth to GW: NA	Sampling Method: Slidehammer
Radiological Equipment Used: ✓ MicroR [✓] Alpha/Beta [✓] Pancake		PG Review & No.: Nikki Hoffman #7735	Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0.0 0.5	0.5/0.5	0.0 0.0	14/102 14/90	SL-501 NBZ-SB 0.0-0.5	1250	SM	SILTY SAND, brown (7.5YR 4/4) fg, pg, sr to sa, quartz loose, dry, tr ant organics (roots); 80% SD 20% SILT
1		0.0	14/84				SILTY SAND w/ GRAVEL, yel brn (10YR 5/4) mottled w/ lt yel brn (10YR 6/4), fg w/ tr to some med gvl, pg, sr to sa, quartz mod loose to sli compacted becoming more compacted w/ depth dry, gravel is mod weathered sandstone, sr to sa, SILT friable, mod well to well cemented; 60% SD 25% SILT 15% GRAVEL — 1.0
2		0.0	14/108 @2' 14/90 @2.4				— 2.4
							Refusal @ 2.4' bls on bedrock

CDM Smith **BORING LOG AND SAMPLING RECORD** Page 1 of 1

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Kris Larson

Sample ID SL-502-NBZ-SB-0.0-0.5 Date/Time 12-3-13/ 0920

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): (DPT) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Soil	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS Sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean Inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic Inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) NA
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color ~~Light brown~~ 12-3-13 (10YR 6/4) light yellowish brown

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] PG Registration # 7735

Additional Comments NA

RPR 12-3-13

NA – Not Applicable

12-3-13

Location ID: DC SB-502	Subarea: NBZ	Date Started: 12-3-13	Date Completed: 12-3-13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1st DPT = 5.0' 2nd DPT = 5.0 3rd DPT = 5.0
Company Name: CDM SMITH	Drill Contractor/Driller: Strongarm		
GPS collected? (Yes) or No	Drill Method: DPT		Depth Drilled into Bedrock: NA
Radiological Background: γ = 13 α = 72	Borehole diameter: 2.25		
PID Background: 0.0 ppm	Depth to GW: NA		Sampling Method: DPT
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Reviewer No.: Mike Hoffman # 7735		Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (μR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0-0.5	0.5/0.5	0.0 0.0	13/79 13/66	SL-502 NBZ-SB 0.0-0.5	0920	SM	SILTY SAND, ltyel brn (10YR 6/4), fg, pg, sr to sa, quartz dry, some to few ant sli consolidated & laminated, mod brittle, 70% SD 30% SILT, tr anth org. (roots), increase in ant of sli consolidated material w/depth
1		0.0	13/96				1.0
2	3.5/3.5	0.0	13/96			SM	SILTY SAND, yel brn (10YR 5/4) mottled w/ brn yel (10YR 6/6) and v pale brn (10YR 7/3) fg, pg, sr to sa, quartz, dry, some to few ant sli consolidated & laminated, mod 70% SD 30% SILT
3		0.0	13/90				3.0
4	1.0/1.0	0.0	13/84	SL-502 NBZ-SB 4.0-5.0	0935	SM	SILTY SAND, brn yel (10YR 6/6) mottled w/ v pale brn (10YR 7/4) & (10YR 8/3) fg, pg, sr to sa, quartz, dry, mod to sli consolidated to mod consolidated & laminated, sli to mod brittle, 60% SD 40% SILT, Lense of material from 4.0-4.3 SILTY SAND strong brown (7.5YR 5/6) sli less consolidated than material above.
0-5.0							
5		0.0	13/84				Refusal @ 5.0' on bedrock 5.0

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Kris Larson

Sample ID SL-502-NBZ-SB-4.0-5.0 Date/Time 12-3-13/ 0935

Matrix (circle one): (Soil) Sediment Water

Start Depth 4.0

End Depth 5.0

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): (DPT) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 16oz jar & 2 encores

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) None
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color ~~Dry~~ 12-3-13 yel (10YR 6/6) brownish yellow

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments NA

DRR 12-3-13

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By [signature]

Sample ID SL-503-NBZ-SB-0.0-0.5 Date/Time 12-3-13 / 10:00

Matrix (circle one): Soil (circled) Sediment Water

Start Depth ~~0.0~~ 0.0 (12-3-13)

End Depth 0.5

Depth Units (circle one): Inches Feet (circled)

Check if Composite ☐

Collection Method (circle one): DPT (circled) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N (circled) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS Sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** NA
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color ~~Yellow~~ yellowish brown (10YR 5/4)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Mike Hoffman **PG Registration #** 7735

Additional Comments NA

12-3-13 DPR

NA – Not Applicable

12-3-13

Location ID: DGSL-503	Subarea: NBZ	Date Started: 12-3-13	Date Completed: 12-3-13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1st DPT = 3.0, 2nd DPT = 3.0, 3rd DPT = 3.0
Company Name: CDM SMITH	Drill Contractor/Driller: Strongarm		
GPS collected? (Yes) or No	Drill Method: DPT		Depth Drilled into Bedrock: NA
Radiological Background: β = 13 α = 97	Borehole diameter: 2.25		
PID Background: ~~SRR~~ β = 0.0 ppm ~~α = SRR~~	Depth to GW: NA		Sampling Method: DPT
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: Mike Anderson #7735		Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0-0.5	0.5/0.5	0.0	13/98	SL-503 NBZ-SB 0.0-0.5	10:00	SM	SILTY SAND, yel brn (10YR 5/4) fg, pg, sr to sa, quartz, dry, some org (roots) SAND 80% SILT 20%, sl compacted to loose. — 0.4
		0.0	13/78				
1	2.5/2.5	0.0	13/60			SM	SILTY SAND, lt yel brn (10YR 6/4) fg, pg, sr to sa quartz, dry, loose, 75% SD 25% SILT
2		0.0	13/70	SL-503 NBZ-SB 2.0-3.0	1020		
2.0-3.0							
3		0.0	13/72				Refusal @ 3.0 on bedrock — 3.0

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	φ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: Kris Larson

Sample ID: SL-503-NBZ-SB-2.0-3.0 Date/Time: 12-3-13/1020

Matrix (circle one): (Soil) Sediment Water

Start Depth: 2.0

End Depth: 3.0

Depth Units (circle one): Inches (Feet)

Check if Composite: ☐

Collection Method (circle one): (DPT) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: NA

Field Geologist: David Rojas

Sampler: Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Soil Jars	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 16 oz jar & 2 encores

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** None
3. **Fill Description (circle all that apply)**

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel	(N/A)	
Other _____		

Is Staining Present Yes (No)

Color ~~Reddish Brn~~ (10YR 6/4) light yellowish brown

Odor

1. **Odor Strength (circle one)**
   (None) Slight Strong
2. **Odor Description (circle one)**
   Organic Petroleum Chemical
   (N/A) Other _____

Moisture Condition (circle one)
(Dry) Moist Wet

PG Signature Mike Hoffman **PG Registration #** 7735

Additional Comments NA

12-3-13

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-505-NBZ-SB-0.0-0.5 Date/Time 12/13/13 1300

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Explosives	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

2 SS Sleeves
1 40z Jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) NA
3. Fill Description (circle all that apply)

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel	(N/A)	
Other		

Is Staining Present Yes (No)

Color Brown (10YR 4/3)

Odor

1. Odor Strength (circle one): (None) Slight Strong
2. Odor Description (circle one): Organic Petroleum Chemical (N/A) Other

Moisture Condition (circle one): (Dry) Moist Wet

PG Signature _____ **PG Registration #** _____

Additional Comments None

10/23/13

NA – Not Applicable

Location ID: DG-505	Subarea: NB2	Date Started: 12/13/13 1255 PM/AM	Date Completed: 12/13/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1.4', 1.4'
Company Name: CDM SMITH	Drill Contractor/Driller: NA		
GPS collected? Yes or No	Drill Method: slidehammer/hand auger		Depth Drilled into Bedrock: NA
Radiological Background: 17/99	Borehole diameter: 2.25"		
PID Background: 0.0	Depth to GW: NA		Sampling Method: C. Geoprobe Splitspoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PC Review & No.: Mike Hoffman #7735		Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0		0.0	19/100	SL-505-NB2-SB-0.0-0.5	1300	SM	SILTY SAND: Brown (10yR 4/3); 70% sand, pg, f-m, mostly f; 30% silt, low plasticity; t gravel (siltstone & weathered SS formation) f-c, sa-sr, max D = 2.0"; t organics (leaves, twigs, roots); dry, no odor.
		0.0	19/86				
1		0.0	18/94				Refusal at 1.4', 1.4'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	

f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By [signature]

Sample ID SL-506-NBZ-SB-0.0-0.5 Date/Time 12-4-13/1030

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger)/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 16 oz Jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** NONE
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color light yellowish brown (10YR 6/4)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments

- Unable to collect sample using slidehammer, so collected sample using handauger.
- Did not use DPT to advance boring due to proximity to high pressure gas line.

NA – Not Applicable

Location ID: DG-506	Subarea: NBZ	Date Started: 12-4-13	Date Completed: 12-4-13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1st HA = 1.0 2nd HA = 1.0
Company Name: CDM SMITH	Drill Contractor/Driller: Strongarm		
GPS collected? (Yes) or No	Drill Method: Handauger		Depth Drilled into Bedrock: NA
Radiological Background: β = 14 α = 84	Borehole diameter: 3.25 inches		
PID Background: 00 ppm	Depth to GW: NA		Sampling Method: Handauger
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: Julie Hoffman #7735		Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	14/91	SL-506 NBZ-SB 0.0-0.5	1030	SM	SILTY SAND, lt yel brn (10YR 6/4), fg, pg, sr to sa, loose quartz dry; some siltstone gravel increasing in amount w/ depth; siltstone gravel F-m sized well cemented, sli friable, grayish brown (2.5Y 5/2) 60% SD, 30% SILT, 10% GRAVEL
		0.0	14/72				
1	HA	0.0	14/84				Refusal @ 1.0' bls due to bedrock — 1.0

CDM Smith

BORING LOG AND SAMPLING RECORD

Page 1 of 1

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By

Sample ID SL-507-NBZ-SB-0.0-0.5 Date/Time 12-4-13 / 10:00

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): (DPT) 12-4-13 Slide Hammer 12-4-13 Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
Chemistry	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Chemistry	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 16 oz jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) None.
3. Fill Description (circle all that apply)

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel	(N/A)	
Other		

Is Staining Present Yes (No)

Color brown (10YR5/3)

Odor

1. Odor Strength (circle one): (None) Slight Strong
2. Odor Description (circle one): Organic Petroleum Chemical (N/A) Other

Moisture Condition (circle one): (Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments
- Unable to collect sample using slidehammer, so collected sample using handauger
- Did not use DPT to advance boring due to proximity to high pressure gas line and petroleum pipeline

NA – Not Applicable

Location ID:	Subarea:	Date Started:	Date Completed:
DG-507	NBZ	12-4-13	12-4-13

Client: DOE	Project Name/#: Santa Susana Field Lab/99489	Total Depth: 1st HA=4.5, 2nd HA=4.5
Company Name: CDM SMITH	Drill Contractor/Driller: Strongarm	
GPS collected? (Yes) or No	Drill Method: Handauger	Depth Drilled into Bedrock: NA
Radiological Background: γ= 15 α=67	Borehole diameter: 3.25	
PID Background: 0.0	Depth to GW: NA	Sampling Method: Handaugers
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: Mulloy Hoffman #7735	Geologist:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0.0-0.5	100%	0.0	15/90	SL-507 NBZ-SB 0.0-0.5	1000	SM	SILTY SAND brown (10YR 5/3), fg, pg, sr-sa, quartz, dry, loose; 65% SD 35% SILT, few amt sli consolidated but friable — 0.5
		0.0	15/90				
1	HA	0.0	15/96			SM	SILTY SAND, yel brn (10YR 5/4) mottled w/ lt yel brn (10YR 6/4) fg, pg, sr to sa, quartz, dry, mostly loose some mod well compacted hard to sli friable, some
2		0.0	15/120			ML	Siltstone gravel, hard, sli cemented, blocky f-m sized — 2.0
							75% SD, 15% SILT, 10% GRAVEL
3		0.0	15/108				SANDY SILT w/ GRAVEL, lt yel brn (2.5Y 6/3) mottled w/ olive brown (2.5Y 4/3), fg, pg, sr to sa, quartz mod well consolidated to sli loose, dry, Gravel is A.A (SILT=50% SD=30% GRAVEL=20%)
4		0.0	15/108	SL-507 NBZ-SB 3.5-4.5	1015	SM	SILTY SAND, same as 0.5-2.0 — 3.5
		0.0	15/90				— 4.5
5							Refusal @ 4.5' bls on bedrock

CDM Smith **BORING LOG AND SAMPLING RECORD** Page 1 of 1

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	φ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Kris Larson

Sample ID SL-507-NBZ-SB-3.5-4.5 Date/Time 12-4-13/1015

Matrix (circle one): (Soil) Sediment Water

Start Depth 3.5

End Depth 4.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
Soils	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Soils	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 16 oz jar + 2 Encores

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** None
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color yellowish brown (10YR 5/4)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments • Did not use DPT to advance boring due to proximity to high pressure gas line and petroleum pipeline

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Kris Larson

Sample ID SL-508-NB4-SB-0.0-0.5 Date/Time 12-4-13 / 0900

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): (DPT) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
Energetics	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Energetics	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

2 SS Sleeves & 1 4oz jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) None
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color yellowish brown (10YR 5/4)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** _____

Additional Comments NA

DRR 12-4-19

NA – Not Applicable

Location ID: DG-508	Subarea: NBZ	Date Started: 12-4-13	Date Completed: 12-4-13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1st DPT= 2nd DPT= 3rd DPT=
Company Name: CDM SMITH	Drill Contractor/Driller: Strongarm		
GPS collected? Yes or No	Drill Method: DPT		Depth Drilled Into Bedrock: NA
Radiological Background: γ = 15 α = 102	Borehole diameter: 2.25		
PID Background: 0.0	Depth to GW: NA		Sampling Method: DPT
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No: Mike Hoffman #7735		Geologist: David Rgas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
	0.5/0.5	0.0	15/105	SL-508 NBZ-SB 0.0-0.5	0900	SM	SILTY SAND, yel brn (10YR 5/4), fg, pg, sr to sa, quartz, mostly loose w/some siltstone gravel, siltstone gravel is f-m sized, tabular, mod well consolidated but sli friable, dry; 70% SAND 25% silt 5% SILTSTONE
		0.0	15/66				
1		0.0	15/60				
	3.5/3.5						
2		0.0	15/72			CL	SANDY ~~SILTY~~ SM1614 CLAY, brown (10YR 4/3) mottled w/ lt yel brn (10YR 6/4), low plasticity, friable, dry to sli moist, sli laminated silt & sd is dispersed in clay; 50% CLAY 30% SILT, 20% SD sd is fg, pg, sr-sa quartz, unit is becoming clayer w/depth — 2.0
3		0.0	15/54				
4	1.0/1.0	0.0	15/84	SL-508 NBZ-SB 4.0-5.0	0915		
5		0.0	15/54				Ceased advancing DPT probe @ 5.0' bls — 5.0

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	φ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By [signature]

Sample ID SL-508-NBZ-SB-4.0-5.0 Date/Time 12-4-13/ 0915

Matrix (circle one): (Soil) Sediment Water

Start Depth 4.0

End Depth 5.0

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): (DPT) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

~~2 SS Sleeves~~ DRR 12-4-13 2 16oz jar & 2 Encores

NA – Not Applicable

FSDS Revision 3.0 11/19/2013

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) None
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color brown (10YR 4/3)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments NA

12-4-13 DRR

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By [signature]

Sample ID SL-509-NBZ-SB-0.0-0.5 Date/Time 12-3-13/13:15

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): (DPT) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Soil	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

2 SS Sleeves & 1 4oz jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) None
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color light yellowish brown (10YR 6/4)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Mila Hoffman **PG Registration #** 7735

Additional Comments NA

BRR 12-3-13

NA – Not Applicable

Location ID: DG-509	Subarea: NBZ	Date Started: 12-3-13	Date Completed: 12-3-13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1st DPT = 3.5, 2nd DPT = 3.5, 3rd DPT = 3.5
Company Name: CDM SMITH		Drill Contractor/Driller: Strongarm	
GPS collected? (Yes) or No		Drill Method: DPT	Depth Drilled into Bedrock: NA
Radiological Background: β=13 α=103		Borehole diameter: 2.25	
PID Background: 0.0		Depth to GW: NA	Sampling Method: DPT
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No: Mike Hoffman #7735	Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0.0-0.5	0.5/0.5	0.0	13/97	SL-509 NBZ-SB 0.0-0.5	1315	SM	SILTY SAND, lt yel brn (10YR 6/4) mottled w/ yel brn (10YR 5/4) f grn, pg, sr to sa, quartz, loose, dry, Few to some organics (roots) tr amt sdstn gravel fine sized - 0.8
		0.0	13/90				
1		0.0	13/102			SP SM	med well sorted; 75% SD, 25% SILT
2	3.0/3.0	0.0	13/90				SAND w/ SILT, pale brn (10YR 6/3) mottled w/ v pale brn (10YR 7/3) f grn w/ tr to Few amt med grained pg, sr to sa, quartz, dry, loose w/ some sli consolidated but brittle/friable lenses, 90% SD 10% SILT
2.5-3.5				SL-509 NBZ-SB 2.5-3.5 MS	1330		SILT STONE lenses @ 1.5' (1.4'-1.6') bls dk greyish
3		0.0	13/66	SL-509 NBZ-SB 2.5-3.5	1330		brown (2.5Y 4/2) med hard to hard, sli friable, tabular
		0.0	13/66		1330		3.5
							Refusal @ 3.5' bls on bedrock

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Kris Larson

Sample ID SL-509-NBZ-SB-2.5-3.5MS Date/Time 12-3-13 / 1330

Matrix (circle one): (Soil) Sediment Water

Start Depth 2.5

End Depth 3.5

Depth Units (circle one): Inches Feet

Check if Composite ☐

Collection Method (circle one): (DPT) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

6 16oz jars & 6 Encores

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				(SP-SM)	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)

2. Percentage Fill (%) NA

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color pale brown (10YR 6/3)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Linda Hoffman PG Registration # 7735

Additional Comments NA

QRR 12-3-13

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By [signature]

Sample ID SL-809-NBZ-SB-2.5-3.5 Date/Time 12-3-13 / 1340

Matrix (circle one): (Soil) Sediment Water

Start Depth 2.5

End Depth 3.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): (DPT) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N (FD) FB RB

Parent Sample ID SL-509-NBZ-SB-2.5-3.5MS

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

2 16 oz jars + 2 Encores

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) NA
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color pale brown (10 YR 6/3)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Tyler Hoffman **PG Registration #** 7735

Additional Comments NA

12x DRR

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By [signature]

Sample ID SL-510-NBZ-SB-0.0-0.5 Date/Time 12-3-13 / 1430

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): (DPT) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

Parameters	Method	Analyze?
Metals	EPA 6010	
	EPA 6020	
	EPA 7471 (Soil)	
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	X
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Soxhlet	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

2 SS Sleeves & 1 4oz jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** None
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color light yellowish brown (10YR 6/4)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Julie Hoffman **PG Registration #** 7735

Additional Comments NA

DRB 12-3-13

NA – Not Applicable

Location ID: DG-510	Subarea: NBZ	Date Started: 12-3-13	Date Completed: 12-3-13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1st DPT= 2nd DPT= 3rd DPT=
Company Name: CDM SMITH		Drill Contractor/Driller: Strongarm	
GPS collected? Yes or No		Drill Method: DPT	Depth Drilled into Bedrock: NA
Radiological Background: γ=13 α=108		Borehole diameter: 2.25	
PID Background: 0.0 ppm		Depth to GW: NA	Sampling Method: DPT
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No.: Mike Hoffman #7735	Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0.0-0.5	0.5/0.5	0.0	13/91	SL-510 NBZ-SB 0.0-0.5	1430	SM	SILTY SAND, lt yel brn (10YR 6/4) mottled w/ yel brn (10YR 5/4) and v pale brn (10YR 7/3), fgrn, pg, sr to sa, quart, dry, mod well compacted, becoming sli loose w/depth, 75% SD 25% SILT
		0.0	13/72				
1		0.0	13/84			SM	0.8
	3.5/3.5						SILTY SAND, dk yel brn (10YR 4/4) fg, pg, sr to sa, quart, loose, some to few siltstone gravel, rnd well to well compacted, 80% SD 20% SILT, dry
2		0.0	13/72				
3		0.0	13/78			SM	3.0
							SILTY SAND, lt olive brn (2.5Y 5/3) mottled w/ pale brn (2.5Y 7/3) and lt yel brn (10YR 6/4), fg, pg, sr to sa quart, dry, loose, sl laminated from 3.5-4.0' bls 4.4-4.6' bls; 65% SD 35% SILT
4		0.0	13/511	SL-510 NBZ-SB 4.0-5.0	1445		
-5.0	1.0/1.0						
5		0.0	13/102				Ceased advancing DPT @ 5' bls

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Kris Larson

Sample ID SL-510-NBZ-SB-4.0-5.0 Date/Time 12-3-13 / 1445

Matrix (circle one): (Soil) Sediment Water

Start Depth 4.0

End Depth 5.0

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): (DPT) Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

2 16oz jars & 2 Encores

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present: Yes (No)
2. Percentage Fill (%): None

3. Fill Description (circle all that apply)

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel	(N/A)	
Other		

Is Staining Present Yes No

Color: light olive brown (2.5 Y 5/3)

Odor

1. Odor Strength (circle one): (None) Slight Strong

2. Odor Description (circle one): Organic Petroleum Chemical (N/A) Other

Moisture Condition (circle one): (Dry) Moist Wet

PG Signature: [signature] PG Registration #: 7735

Additional Comments: NA

12-3-13

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By [signature]

Sample ID SL-511-NBZ-SB-0.0-0.5 Date/Time 12-4-13 / 1240

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Eurofins	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

2 SS Sleeves & 4 oz jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)

2. Percentage Fill (%) None

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color brown (7.5YR 4/2)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** _____

Additional Comments NA

12-4-13 SDR

NA – Not Applicable

Location ID: DG-511	Subarea: NBZ	Date Started: 12-4-13	Date Completed: 12-4-13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1st HA=3.5, 2nd HA=3.5, 3rd HA=3.5
Company Name: CDM SMITH		Drill Contractor/Driller: Strongarm	
GPS collected? (Yes) or No		Drill Method: Slidehammer/HA	Depth Drilled into Bedrock: NA
Radiological Background: γ=14 α=87		Borehole diameter: 3.25	
PID Background: 0.0 ppm		Depth to GW: NA	Sampling Method: Slidehammer
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No: Mike Hoffman #7735	Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0.0-0.5	0.5/0.5	0.0 0.0	14/100 14/66	SL-511 NBZ-SB 0.0-0.5	1240	SM	SILTY SAND, brown (7.5YR 4/2), fg, pg, sr to sa, quartz, loose, few to some organics (roots), dry, tr ants sli to mod compacted, friable; 70% SD 30% SILT — 0.5
1	HA	0.0	14/72			SM	SILTY SAND, brown (7.5YR 5/4), fg, pg, sr to sa, quartz, mostly loose, some sli to mod compacted, mod friable, tr to few organics (roots), dry 75% SD 25% SILT — 1.4
2		0.0	14/90				SILTY SAND, reddish brown (5YR 5/4) fg, pg, sr to sa, quartz mostly loose some sli to mod compacted, sli to mod friable tr ant organics (roots) 80% SD 20% SILT, dry — 2.6
3		0.0	14/78	SL-511 NBZ-SB 2.5-3.5	1300	SM	SILTY SAND, brownish yel (10YR 6/6) mottled w/ v pale brn (10YR 7/4) fg, pg, sr to sa, quartz, mod well compacted to well compacted, dry, tr to some sandstone gravel increasing w/ depth, Gravel is f-c sized, mod well to well cemented, many w/ iron staining — 3.5 yel red (5YR 4/6) and reddish brn (5YR 4/3); 75% SD 20% SILT 5% GRAVEL grading to 70% SD 20% SILT 10% GRAVEL
4		0.0	14/90				Refusal @ 3.5' b/s on bedrock

CDM Smith **BORING LOG AND SAMPLING RECORD** Page 1 of 1

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By [signature]

Sample ID SL-511-NBZ-SB-2.5-3.5 Date/Time 12-4-13/1300

Matrix (circle one): (Soil) Sediment Water

Start Depth 2.5

End Depth 3.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

2 SS Sleeves, 1 4oz jar, 2 Encores

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) None
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color brownish yellow (10YR 6/6)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments NA

12-4-13

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By [signature]

Sample ID SL-512-NBZ-SB-0.0-0.5 Date/Time 12-6-13 / 0925

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Both	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

2 SS Sleeves

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				(SP-SM)	Poorly graded SAND with silt & gravel
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** None

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color yellowish brown (10YR 5/4)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments NA

12-6-13

NA – Not Applicable

Location ID: DG-512	Subarea: NBZ	Date Started: 12-6-13	Date Completed: 12-6-13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1st NA = 1.0, 2nd NA = 1.2
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? Yes or No		Drill Method: Slidehammer / NA	Depth Drilled into Bedrock: NA
Radiological Background: X = 12 <x = 86		Borehole diameter: 3.25	
PID Background: 0.0 ppm		Depth to GW: NA	Sampling Method: Slidehammer
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PQ Review & No: Matt Hoffman #7735	Geologist: David R Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
							2HR with SILT and GRAVEL
0.0-0.5	0.5/0.5	0.0	12/85	SL-512 NBZ-SB 0.0-0.5	0925	SP-SM	SAND, yel brn (10YR 5/4) mottled w/ brn (10YR 4/3) and pale brn (10YR 6/3) fg w/ tr to few cmt med gravel, pg, sr-sr sa, gravels consist of sandstone, med compacted w/ depth, dry, tr to few amt of organics (roots & grass) 75% SD, 10% SILT, 15% GRAVEL
0.5-1.0	NA	0.0	12/54			SP-SM	Gravel is weathered sandstone, v pale brn (10YR 7/4) mod pale brn (10YR 6/3), fr-med sized, sr to sa, mod well cemented but sli to mod friable.
							SILTY SAND, dk yel brn (10YR 4/4) fg, pg, sr to sa gravel fine-coarse, dry; 80% SD 20% SILT
							SAND w/ SILT & GRAVEL, same as 0.0-0.5
							Refusal @ 1.2 on bedrock

0.5
0.8
1.2

CDM Smith **BORING LOG AND SAMPLING RECORD** Page 1 of 1

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: E. Louden

Sample ID: SL-513 - NBZ-SB-0.0-0.5 Date/Time: 12/09/13 1010

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: NA

Field Geologist: C. Cox

Sampler: E. Louden

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Ethers	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present (Yes) No
2. Percentage Fill (%) 100 NA 11/19/13
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

(Other) ~~SSformation~~ Silt Stone 11/19/13

Is Staining Present Yes (No)

Color Brown (7.5YR 4/2)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

Dry (Moist) Wet

PG Signature _____ **PG Registration #** _____

Additional Comments None

11/19/2013

NA – Not Applicable

Location ID: DG-513	Subarea: NBZ	Date Started: ~~12/06/2013~~ ~~Thursday~~ 12/09/13 MONDAY	Date Completed: ~~12/06/13~~ 12/09/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1.4', 1.9'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? Yes or No		Drill Method: slide hammer / handauger	Depth Drilled Into Bedrock: NA
Radiological Background: 17/86		Borehole diameter: 2.25"	
PID Background: 0.0		Depth to GW: NA	Sampling Method: split spoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No.: Mike Hoffman #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	17/85	SL-513 NBZ-SB-0.0-0.5	1010	SM	SILTY SAND: Brown (7.5YR 4/4) 65% sand, pg, f-m, mostly f; 30% silt, low plasticity; 5% gravel (SS formation and siltstone), f-c, sa-sr, max Ø=2.0", moist, no odor, t organics (twgs) ~~(Fill)~~
		0.0	16/73				
1		0.0	17/107				
		0.0	16/81				
		0.0	16/97				
						SM	SILTY SAND: same as above color change to brown (7.5YR 4/2) and dry, no odor ~~(Fill)~~
							Refusal at SS formation at 1.4', 1.9'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	φ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: [signature]

Sample ID: SL-514-NBZ-SB-0.0-0.5 Date/Time: 12-9-13 / 1200

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: NA

Field Geologist: David Rojas

Sampler: Kris Larson

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Soil	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS Sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

SM QR 12-9-13

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) None
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color dk yel brn dark yellowish brown (10YR 4/4)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Mike Hoffman PG Registration # 7755

Additional Comments NA

QR 12-9-13

NA – Not Applicable

Location ID: DG-514	Subarea: NBZ	Date Started: 12-9-13	Date Completed: 12-9-13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1st HA = 1.2 2nd HA = 2.6
Company Name: CDM SMITH	Drill Contractor/Driller: NA		
GPS collected? Yes or (No)	Drill Method: Slidehammer / Handauger		Depth Drilled into Bedrock: NA
Radiological Background: γ = 17 α = 06	Borehole diameter: 3.25 inches		
PID Background: 0.0 ppm	Depth to GW: NA		Sampling Method: Slidehammer
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: [signature] #7735		Geologist: David Bjas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0.0-0.5	0.5/0.5	0.0	17/100	SS-514 NBZ-SB 0.0-0.5	1145 1200	SM	SILTY SAND, dk yel brn (10YR 4/4) mottled w/ (10YR 5/4) and yel brn (10YR 5/4) fg, pg, sr to sa, quartz, loose, dry; 85% SD 15% SILT, little org (roots, leaves, twigs) — 0.4
1		0.0	17/178				SAND w/ SILT, yel brn (10YR 5/6) mottled w/ dk yel brn (10YR 4/4) and pale brn (10YR 7/4) fgrw w/ little med qtz to coarsegrn, pg, sr to sa, quartz w/ trace biotite & dk mineals, loose, tr to few amt gravel, dry — 1.2
2		0.0	17/108				Gravel is weathered sandstone, sr to sa, f-med sized well cemented, hard; 90% SD 10% SILT Tr GRAVEL — 2.6
		0.0	17/102				
3							Refusal on Bedrock @ 2.6' bgs

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By

Sample ID SL-515-NBZ-SB-0.0-0.5 Date/Time 12-9-13 / 1300

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS Sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) None
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color dk dark yellowish brown (10YR 4/4)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] PG Registration # 7735

Additional Comments NA

12.9.13 10YR

NA – Not Applicable

Location ID: DG-515	Subarea: NBZ	Date Started: 12-9-13	Date Completed: 12-9-13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1st HA = 2.3, 2nd HA = 2.3
Company Name: CDM SMITH	Drill Contractor/Driller: NA		
GPS collected? Yes or No	Drill Method: Slidehammer/Handauger		Depth Drilled Into Bedrock: NA
Radiological Background: γ = 17 α = 82	Borehole diameter: 3.25 inches		
PID Background: 0.0 ppm	Depth to GW: NA		Sampling Method: Slidehammer
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: [signature] #7735		Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0.0-0.5	0.5/0.5	0.0 0.0	17/87 17/84	SL-515 NBZ-SB 0.0-0.5	1300	SM	SILTY SAND, dk yel brn (10YR 4/4) mottled w/ lt yel brn (10YR 6/4) and yel brn (10YR 5/4), fg, pg, sr to sa, quartz, dry, loose, little to few amt organics (roots, fibrous, twigs - some partially decomposed); 75% SD 25% SILT — 0.8
1	HA	0.0	17/96			SM	SILTY SAND, yel brn (10YR 5/4), fg, pg, sr to sa, quartz, dry, loose, tr amt org (A.A.) 85% SD — 1.6
2		0.0 0.0	17/84 17/72			SP	SAND, lt olive gray (5Y 6/2) mottled w/ olive gray (5Y 5/2) fg, pg, sr to sa, quartz & tr to few amt dk minerals, loose becoming sli compacted w/ depth; 95% SD 5% SILT tr amt Sandstone gravel; dry becoming sli moist w/ depth — 2.3

Refusal on bedrock @ 2.3' bgs

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	φ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By [signature]

Sample ID SL-516-NBZ-SB-0.0-0.5 (516 / NR 12-9-13) Date/Time 12-9-13 / 1030

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

2 SS Sleeves & 1 4oz jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** None
3. **Fill Description (circle all that apply)**

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel	(N/A)	
Other		

Is Staining Present Yes (No)

Color dark brown (7.5YR 3/2)

Odor

1. **Odor Strength (circle one)**: (None) Slight Strong
2. **Odor Description (circle one)**: Organic Petroleum Chemical (N/A) Other

Moisture Condition (circle one): (Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments NA

12-9-13

NA – Not Applicable

Location ID: DG-516	Subarea: NB2	Date Started: 12-9-13	Date Completed: 12-9-13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1st HA = 5.0' 2nd HA = 5.0'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? Yes or No		Drill Method: Slidehammer/Hordauger	Depth Drilled into Bedrock: NA
Radiological Background: Y=15 α=95		Borehole diameter: 3.25 inches	
PID Background: 0.0 ppm		Depth to GW: NA	Sampling Method: Slidehammer
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No.: Willi Hoffman #773	Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0.0-0.5	0.5/0.5	0.0	15/82	SL-516 NB2-SB 0.0-0.5	1030	SM	SILTY SAND, dk brn (7.5YR 3/2) mottled w/ brown (10YR 4/3) & (10YR 5/4), fg, pg, sr to sa, quart, dry, loose becoming mod compacted w/ depth, Few to little organics (roots, leaves, twigs) 80% SD 20% SILT — 0.6
1	HA	0.0	15/72			SM	SILTY SAND, strong brown (7.5YR 4/6) mottled w/ brown (10YR 5/4), fg, pg, sr to sa, quart, dry, mod well compacted, tr amt org (roots); 70% SD 30% SILT
2		0.0	15/78				
3		0.0	15/90			SM	SILTY SAND, reddish brown (5YR 5/4), mottled w/ strong brown (7.5YR 4/6) fg, pg, sr to sa, quart, dry, slt to mod well compacted, tr amt org (roots) 65% SD 35% SILT — 2.6
4		0.0	15/84	SL-516 NB2-SB 4.0-5.0	1100	SP-SM	SAND w/ SILT yel brn (10YR 5/6) mottled w/ v pale brown (10YR 7/4) & brownish yellow (10YR 6/8), fgrn w/ little amt med grn, pg, sr to sa quart w/ tr amt biotite & dk minerals; 90% SD & 10% SILT — 3.8
4.0-5.0							
5		0.0	15/90				— 5.0

Ceased advancing boring @ 5.0' bls

CDM Smith **BORING LOG AND SAMPLING RECORD** Page 1 of 1

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	φ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By [illegible]

Sample ID SL-516-NBZ-SB-4.0-5.0 Date/Time 12-9-13/1100

Matrix (circle one): (Soil) Sediment Water

Start Depth 4.0

End Depth 5.0

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

2 SS Sleeves, 1 4oz jar & 2 Encores

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				(SP-SM)	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) None
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color yellowish brown (10YR 5/6)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments NA

DKR 12-9-13

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-517-NB2-SB-0.0-0.5 Date/Time 12/16/13 1340

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Groups	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

2.
1 4oz jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present: Yes / (No)
2. Percentage Fill (%): N/A
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes / (No)

Color yellowish brown (10YR 5/6)

Odor

1. Odor Strength (circle one): (None) Slight Strong
2. Odor Description (circle one): Organic Petroleum Chemical (N/A) Other _____

Moisture Condition (circle one): (Dry) Moist Wet

PG Signature Mike Hoffman **PG Registration #** 7735

Additional Comments None

NA – Not Applicable

Location ID: DG-517	Subarea: NB2	Date Started: Monday 12/16/13 1330	Date Completed: 12/16/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: ~~4.0~~ 12/16/13 4.2', 3.0, 3.0'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? Yes or No		Drill Method: slide hammer/handauger	Depth/Drilled into Bedrock: NA
Radiological Background: 16/93		Borehole diameter: 2.25"	
PID Background: 0.0		Depth to GW: NA	Sampling Method: Split spoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No.: [signature] #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	16/100	SL-517-NB2-SB-0.0-0.5	1340	ML	SANDY SILT: yellowish brown (10YR 5/6); 60% silt, low plasticity; 40% sand, pg, f; t gravel (SS formation & siltstone); f, sa-sr, max φ = 0.7', dry, no odor.
		0.0	15/106				
1		0.0	15/78				
		0.0	15/87				
2		0.0	15/103				
		0.0	15/106	SL-517-NB2-SB-0.0-0.5	1420	ML	
3		0.0	15/74				
		0.0	15/117				
4		0.0	15/104				Refusal at ~~4.0~~ 12/16/13 4.2', 3.0', 3.0'
5							

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	

f: fine mod: moderate sr: subrounded ϕ: diameter bgs:below ground surface

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-S17-NB2-SB-2.0-3.0 Date/Time 12/16/13 1420

Matrix (circle one): (Soil) Sediment Water

Start Depth 2.0

End Depth 3.0

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Energies	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** N/A
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color Yellowish brown (10YR 5/6)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments None

[signature]

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louder

Sample ID SL-518-NB2-SB-0.0-0.5 Date/Time 12/16/13 1125

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louder

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

2 SS Sleeve
1 4oz jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present (Yes) No

2. Percentage Fill (%) 100

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

(Other) SSFormation

Is Staining Present Yes (No)

Color Yellowish brown (10YR 5/4)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] PG Registration # 7735

Additional Comments None

10/4/18

NA – Not Applicable

Location ID: DG-518	Subarea: NB2	Date Started: MONDAY 12/16/13 1115	Date Completed: 12/16/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 2.0', 0.4', 0.9'
Company Name: CDM SMITH	Drill Contractor/Driller: NA		
GPS collected? Yes or No	Drill Method: Slidehammer/hand auger		Depth Drilled into Bedrock: NA
Radiological Background: 16/90	Borehole diameter: 2.25"		
PID Background: 0.0	Depth to GW: NA		Sampling Method: Split spoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: [signature] #7735		Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	16/106	SL-518-NB2-SB-0.0-0.5	1125	SM	SILTY SAND: yellowish brown (10yR5/4); 60% sand, pg, f-m, mostly f; 40% silt, low plasticity; t gravel (igneous, weathered SS formation), f-c, MXD = 1.25", sa-sr; t organic (large root) at 2.0'; dry, no odor (FILL)
		0.0	16/83				
1		0.0	15/88				
		6.0	15/100				
2		0.0	15/88				

Refusal at 2.0', 0.4', 0.9'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	

f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-519-NB2-SB-0.0-0.5 Date/Time 12/16/13 1210

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

Parameters	Method	Analyze?
Metals	EPA 6010	X
	EPA 6020	X
	EPA 7471 (Soil)	X
	EPA 7470 (Water)	
Fluoride	EPA 300.0/9056	
SVOCs	EPA 8270	
TIC	EPA 8270	
PAHs	EPA 8270 SIM	X
1,4 Dioxane	EPA 8270 SIM	
Dioxins	EPA 1613	X
PCBs/PCTs	EPA 8082	
Perchlorate	EPA 314.0/331	
Perchlorate Confirmation	EPA 6850/6860	
pH	EPA 9045 (Soil)	X
	EPA 9040 (Water)	
Hexavalent Chromium	EPA 7196/7199	
Herbicides	EPA 8151	
Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
Sediment	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean Inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic Inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present (Yes) No
2. Percentage Fill (%) 100
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

(Igneous/Metamorphic Gravel) N/A

(Other) Siltstone

Is Staining Present Yes (No)

Color Dark yellowish Brown (10YR 4/4)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Mike Hoffman **PG Registration #** 7735

Additional Comments None

NA – Not Applicable

Location ID: DG-519	Subarea: NB2	Date Started: MM/DD/YY 12/16/13 1205	Date Completed: 12/16/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 0.7', 0.4', 0.4'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? (Yes) or No		Drill Method: Slide hammer/hand auger	Depth Drilled into Bedrock: NA
Radiological Background: 17/110		Borehole diameter: 2.25"	
PID Background: 0.0		Depth to GW: NA	Sampling Method: Split Spoon
Radiological Equipment Used: [✓] MicroR [✓] Alpha/Beta [✓] Pancake		PC Review & No: Mike Hoffman #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1		0.0 0.0	16/109 14/96	SL-519-NB2-SB-0.0-0.5	1210	SM	SILTY SAND: Dark yellowish brown (10YR4/4); 60% sand, pg, f; 40% silt, low plasticity; t gravel (igneous, metamorphic, siltstone), f-c, sa-sr; max ø = 2.0'; dry, no odor (FILL)
							Refusal at 0.7', 0.4', 0.4'

CDM Smith

BORING LOG AND SAMPLING RECORD

Page 1 of 1

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	

f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-520-NB2-SB-0.0-0.5 Date/Time 12/16/13 1030

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Soil	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No
2. Percentage Fill (%) 100
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other ss Formation & siltstone

Is Staining Present Yes No

Color Dark yellowish brown (10YR 4/4)

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] PG Registration # 7735

Additional Comments None

[signature] 12/14/13

NA – Not Applicable

Location ID: DG-520	Subarea: NB2	Date Started: 12/16/13 (Monday)	Date Completed: 12/16/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 0.5'
Company Name: CDM SMITH	Drill Contractor/Driller: NA		
GPS collected? Yes or No	Drill Method: Slidehammer/handauger		Depth Drilled into Bedrock: NA
Radiological Background: 17/98	Borehole diameter: 2.25"		
PID Background: 0.0	Depth to GW: NA		Sampling Method: Split Spoon
Radiological Equipment Used: [✓] MicroR [✓] Alpha/Beta [✓] Pancake	PG Review & No.: Mike Hoffman #7735		Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1		0.0 0.0	15/95 15/87	SL-520-NB2-SB-0.0-0.5	1030	SP	~~Gravelly sand with silt~~ SAND (Smith): Dark yellowish brown (10YR 4/4), 85% sand, pg, f-m, mostly m; 10% gravel (igneous, metamorphic, siltstone, & SS formation), f-c, sa-sr; max ∅ = 2.0"; 5% silt, nonplastic; dry, no odor (FILL) Refusal at 0.5', 0.5'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	

f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: E. Louden

Sample ID: SL-521-NBZ-SB-0.0-0.5 Date/Time: 12/13/13 0935

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: NA

Field Geologist: C. Cox

Sampler: E. Louden

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

2 SS Sleeves
1 4oz jar

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM (circled)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present (Yes) No
2. Percentage Fill (%) 100
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

(Igneous/Metamorphic Gravel) N/A

(Other) SS formation

Is Staining Present Yes (No)

Color Brown (10YR 5/3)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments None

NA – Not Applicable

Location ID: DG-521	Subarea: NB2	Date Started: 12/13/13	Date Completed: 12/13/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 0.7', 0.8'
Company Name: CDM SMITH	Drill Contractor/Driller: NA		
GPS collected? (Yes or No)	Drill Method: Slidehammer hand auger		Depth Drilled into Bedrock: NA
Radiological Background: 19/104	Borehole diameter: 2.25"		
PID Background: 0.0	Depth to GW: NA		Sampling Method: Splitspoon
Radiological Equipment Used: [✓] MicroR [✓] Alpha/Beta [✓] Pancake	PG Review & No.: Mike Hoffman #7735		Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1		0.0 0.0	18/106 15/104	SL-521-NB2-SB-0.0-0.5	0935	SM	SILTY SAND: Brown (10YR 5/3); 70% sand, pg, f-m; 30% silt, low plasticity; t gravel (SS formation & igneous), f-c, sa-sr, max ϕ = 1.5" dry, no odor; t organics (roots, leaves) (Fill) Refusal at 0.7' & 0.8'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	

f: fine mod: moderate sr: subrounded ϕ: diameter bgs:below ground surface

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: E. Louden

Sample ID: SL-522-NBZ-SB-0.0-0.5 Date/Time: 12/09/13 1105

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: NA

Field Geologist: C. Cox

Sampler: E. Louden

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Excess	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	X
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No
2. Percentage Fill (%) NA 100% cc 12/11/13
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other SS formation & Siltstone cc 12/11/13

Is Staining Present Yes No

Color Darkbrown (75YR 3/3)

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments None

cc 12/09/13

NA – Not Applicable

Location ID: DG-522	Subarea: NB2	Date Started: ~~THURSDAY~~ MONDAY 12/09/13 1100	Date Completed: ~~12/06/13~~ 12/09/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 2.5', 3.9', 3.5'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? Yes or No		Drill Method: Slidehammer / handauger	Depth Drilled Into Bedrock: NA
Radiological Background: 16/85		Borehole diameter: 2.25"	
PID Background: 0.0		Depth to GW: NA	Sampling Method: Split spoon, auger
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No.: Mike Hoffman #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	17/86	SL-522 NB2-SB-0.0-0.5	1105	SM	SILTY SAND: Dark brown (7.5YR 3/3); 60% sand, pg, f-m, mostly f; 40% silt, low plasticity; t gravel (ss formation & siltstone) f, sa-sr, max ϕ = 0.5", dry, no odor ~~(fill)~~ 12/12/13
		0.0	14/85				
1		0.0	16/107				
		0.0	15/85				Color change to brown (7.5YR 4/4) at 0.7'
2		0.0	15/105				
		0.0	15/96				
3		0.0	17/93	SL-522-NB2-SB-~~3.0~~ 2.5-3.5	1140		
		0.0	15/115				
4				12/9/13			Refusal at 2.5', 3.9', 3.5' at SS Formation

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: E. Louden

Sample ID: SL-522-NB2-SB-~~3.0~~ 2.5 - 3.5 (qc 12/9/13) Date/Time: 12/09/13 1140 (4u 12/9/13)

Matrix (circle one): (Soil) Sediment Water

Start Depth: ~~3.0~~ 2.5

End Depth: 3.5

Depth Units (circle one): Inches (Feet)

Check if Composite: ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: NA

Field Geologist: C. Cox

Sampler: E. Louden

Analysis

	Parameters	Method	Analyze?
Encore	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Encore	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	X
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

1 16 oz jar
2 encore

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present (Yes) No
2. Percentage Fill (%) NA ~~100%~~ 0% 12/4/13
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

(Other) ~~Sedimentary Siltstone~~ 12/4/13

Is Staining Present Yes (No)

Color Brown (7.5YR 4/4)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Mike Hoffman **PG Registration #** 7735

Additional Comments None

Deviation: Collected encores out of Slide hammer sm 12091?

12/4/13

hand auger

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-523-NB2-SB-0.0-0.5 Date/Time 12/09/13 1245

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	X
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present (Yes) No

2. Percentage Fill (%) ~~100~~ 12/11/13 NA

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

(Other) ~~SS Formation & Siltstone~~ 12/12/13

Is Staining Present Yes (No)

Color Brown (7.5YR 4/3)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Vicki Hoffman PG Registration # 7735

Additional Comments None

12/05/13

NA – Not Applicable

Location ID: DG-523	Subarea: NBZ	Date Started: 12/09/13 MONDAY 1240	Date Completed: 12/09/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 2.3', 1.8'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? Yes or No		Drill Method: Slidehammer	Depth Drilled Into Bedrock: NA
Radiological Background: 17/94		Borehole diameter: 2.25"	
PID Background: 0.0		Depth to GW: NA	Sampling Method: Splitspoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No: [signature] #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	16/90	SL-523 NBZ-SB-0.0-0.5	1245	SM	SILTY SAND: Brown (7.5YR 4/3); 60% Sand, pg, f-m, mostly f; 40% silt, low plasticity; t gravel (SS Formation & siltstone), f, sa-sr, max ϕ = 0.5"; dry, no odor ~~(FILL)~~ [illegible]
		0.0	16/66				
1		0.0	16/101				
		0.0	16/114				
2		0.0	16/99			SM	SILTY SAND: Yellowish brown (10YR 5/6); [illegible] 65% sand, pg, f-m, mostly f; 30% silt, low plasticity; 5% gravel (SS Formation), f-c, sa-sr, max ϕ = 1.75", weak cementation; dry, no odor.
							Refusal at SS Formation @ 2.3', 1.8'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-524-NBZ-SB-0.0-0.5MS Date/Time 12/09/13 1340

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	X
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

3 SS sleeves

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No
2. Percentage Fill (%) ~~100%~~ NA cc 12/12/13
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other SS formation & siltstone cc 12/12/13

Is Staining Present Yes No

Color Brown 10YR 4/3

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments None

cc 12/09/13

NA – Not Applicable

Location ID: DG-524	Subarea: NB2	Date Started: 12/09/13 MONDAY	Date Completed: 12/09/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1.1', 1.1'
Company Name: CDM SMITH	Drill Contractor/Driller: NA		
GPS collected? Yes or No	Drill Method: Slidehammer		Depth Drilled into Bedrock: NA
Radiological Background: 16/104	Borehole diameter: 2.25"		
PID Background: 0.0	Depth to GW: NA		Sampling Method: Split Spoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: [signature] #1735		Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	15/65	SL-524-NB2-SB-0.0-0.5MS	1340	SM	SILTY SAND: Brown (10YR 4/3), 70% sand, pg, f-m, mostly f; ~~25%~~ 30% silt, low plasticity; t gravel (weathered SS Formation & siltstone), f, sa-sr, max Ø=0.5"; t organics (leaves, roots, twigs); dry, no odor ~~(fill)~~ 12/9/13
		0.0	13/70	SL-824-NB2-SB-0.0-0.5	1430		
1		0.0	14/95				
2							Refusal at SS Formation at 1.1', 1.1'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By _____

Sample ID SL-824-NBZ-SB-0.0-0.5 Date/Time 12/09/13 1430

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N (FD) FB RB

Parent Sample ID SL-524-NBZ-SB-0.0-0.5 MS

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
Encore	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Encore	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	X
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS Sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH * 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH * 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No
2. Percentage Fill (%) ~~100~~ NA
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other SSFormation & siltstone

Is Staining Present Yes No

Color Brown (10YR 4/3)

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments None

NA – Not Applicable

SSFL Phase 3 -- Field Sample Data Sheet

CDM Smith

FSDS Checked By

Sample ID SL-525-NBZ-SB-0.0-0.5 Date/Time 12-5-13/0930

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	X
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Explosives	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS Sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** None.
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color brown (10YR 4/3)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Mike D Hoffman **PG Registration #** 7735

Additional Comments Moved boring location 110' ENE from original proposed location so it would be a downgradient step out from boring SL-021-NBZ

Location ID: DG-525	Subarea: NBZ	Date Started: 12-5-13	Date Completed: 12-5-13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1st HA = 5.0, 2nd HA = 5.0
Company Name: CDM SMITH	Drill Contractor/Driller: NA		
GPS collected? (Yes) or No	Drill Method: Slidehammer / HA		Depth Drilled into Bedrock: NA
Radiological Background: γ = 14 α-91	Borehole diameter: 3.25 inches		
PID Background: 0.0 ppm	Depth to GW: NA		Sampling Method: Slidehammer
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: Mike Hoffman #7735		Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (μR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0.0-0.5	0.5/0.5	0.0	14/173	SL-525 NBZ-SB 0.0-0.5	0930	SM	SILTY SAND, brown (10YR 4/3) fg, pg, sr-sa, quartz, dry, loose; 80% SD 20% SILT, few to some organics (roots) to ant sli consolidated increasing w/depth — 0.6
1	HA	0.0	14/96			SM	SILTY SAND, strong brown (7.5YR 4/6) fg w/ few red grains, pg, sr to sa, quartz, dry, med well to well consolidated, few organics (roots); 85% SD 15% SILT; less organics w/depth (trace).
2		0.0	14/108				
3		0.0	14/78				
4		0.0	14/78	SL-525 NBZ-SB 4.0-5.0MS	1045	SM	SILTY SAND, yel brn (10YR 5/6) mottled w/ lt yel brn (10YR 6/4), fg, pg, sr to sa, quartz, mod loose to sli Compacted becoming more consolidated w/depth, dry 70% SD 30% SILT — 3.4
5		0.0	14/102	SL-525 NBZ-SB 4.0-5.0	1100		Ceased advancing boring @ 5.0' bls — 5.0

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	Φ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Kris Larson

Sample ID SL-525-NBZ-SB-4.0-5.0MS Date/Time 12-5-13 / 1045

Matrix (circle one): (Soil) Sediment Water

Start Depth 4.0

End Depth 5.0

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
Soil/Sed	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	X
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Soil/Sed	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

3 SS Sleeves & Lo Encores

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** None

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color yellowish brown (10YR5/6)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Mike Hoffman **PG Registration #** 7735

Additional Comments NA

12-5-13

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Kris Larson

Sample ID SL-525-NBZ-4.0-5.0 Date/Time 12-5-13 / 1100

Matrix (circle one): (Soil) Sediment Water

Start Depth 4.0

End Depth 5.0

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N (FD) FB RB

Parent Sample ID SL-525-NBZ-SB-4.0-5.0 MS

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	X
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Soil/Sed	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS Sleeve & 2 Encores

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** None
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color yellowish brown (10YR 5/6)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 7935

Additional Comments NA

12-5-13

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Kris Larson

Sample ID SL-526-NBZ-SB-0.0-0.5 Date/Time 12-5-13 / 1130

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	X
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Others	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS Sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				(SP-SM)	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)*
2. **Percentage Fill (%)** None*
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

* Abundant amount of leaves, twigs Other roots, and other natural organic material

Is Staining Present Yes (No)

Color brown (10YR 5/3)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments NA

11-5-13

NA – Not Applicable

Location ID: DG-526	Subarea: NBZ	Date Started: 12-5-13	Date Completed: 12-5-13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1st HA = 3.7 2nd HA = 3.5
Company Name: CDM SMITH	Drill Contractor/Driller: NA		
GPS collected? (Yes) or No	Drill Method: Slidehammer / HA		Depth Drilled Into Bedrock: NA
Radiological Background: γ = 14 α = 73	Borehole diameter: 3.25		
PID Background: 0.0 ppm	Depth to GW: NA		Sampling Method: Slidehammer
Radiological Equipment Used: [✓] MicroR [✓] Alpha/Beta [✓] Pancake	PG Review & No: Mike Hoffman #7755		Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (μR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0.0-0.5	0.5 / 0.5	0.0	14/91	SL-526 NBZ-SB 0.0-0.5	1130	SP SM	SAND w/ SILT, brown (10YR 5/3) mottled w/ dk grayish brown (10YR 4/2) and yel brown (10YR 5/6) fg w/ few to some med grn, pg, sr to sa, med loose to sli compacted, common organics (roots, branches, leaves, twigs; some partly decomposed); 90% SD 10% SILT; dry ~0.6
1	HA	0.0	14/102			SP SM RRR	
2		0.0	14/108			SP SM	SAND w/ SILT & GRAVEL, AA, except only tr org (roots), 75% SD 15% GRAVEL 10% SILT; Gravel is weathered sandstone, med well cemented, hard, sr, F-m sized ~1.8
2.5-3.5				SL-526 NBZ-SB 2.5-3.5	1200	SM	SILTY SAND, dk yel brn (10YR 4/4) mottled w/ yel brn (10YR 5/4) fg w/ tr and med grn, pg, sr to sa, quartz, dry, med loose to sli compacted, tr org (roots) 85% SD 15% SILT ~2.6
3		0.0	14/84				
		0.0	14/102				SAND w/ SILT yel brn (10YR 5/6) mottled w/ dk yel brn (10YR 4/4) and lt yel brn (10YR 6/4) fg w/ tr to few and med rounded pg, sr to sa, quartz, dry, mod well compacted, tr org (roots) ~3.7 90% SD 10% SILT
							Refusal @ 3.7' bls on bedrock

CDM Smith

BORING LOG AND SAMPLING RECORD

Page 1 of 1

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Kris Larson

Sample ID SL-526-NBZ-SB-2.5-3.5 Date/Time 12-5-13/1200

Matrix (circle one): (Soil) Sediment Water

Start Depth 2.5

End Depth 3.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	X
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS Sleeves & 2 Encores

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

DRR 12-5-13

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) None
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color yellowish brown (10 YR 5/6)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] PG Registration # 7735

Additional Comments NA

DRR 12-5-13

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-527-NBZ-SB-0.0-0.5 Date/Time 12/05/2013 1045

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
Encores	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

2 SS sleeves

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present (Yes) No
2. Percentage Fill (%) 100
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

(Igneous/Metamorphic Gravel) N/A

Other _____

Is Staining Present Yes (No)

Color very dark brown (10YR 2/2)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Mike Hoffman **PG Registration #** 7735

Additional Comments Sample is 0.0'-0.4' interval representation

CG 7/05/13

Location ID: DG-527	Subarea: NB2	Date Started: THURSDAY 12/05/13 1045	Date Completed: 12/05/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 0.5' 0.4' 0.4'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? Yes or No		Drill Method: Slide hammer	Depth Drilled into Bedrock: NA
Radiological Background: 15/107		Borehole diameter: 2.25"	
PID Background: 0.0		Depth to GW: NA	Sampling Method: Split spoon
Radiological Equipment Used: [✓] MicroR [✓] Alpha/Beta [✓] Pancake		PG Review & No: Mullet Hoffman #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1		0.0 0.0	17/115 14/75	SL-527 NB2-SB-0.0-0.5	1045	SM	SILTY SAND: Very dark brown (10YR 2/2); 85% sand, pg; f-m, mostly m; 15% silt, low plasticity, igneous clasts; loose sediment, t organics (roots & leaves), moist, no odor (FILL) Alluvial at SS Formation @ 0.5' 0.4' 0.4' 12/05/13

CDM Smith **BORING LOG AND SAMPLING RECORD** Page 1 of 1

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-528 -NB2-SB-0.0-0.5 Date/Time 12/05/2013 1205

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
Encores	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

2 SS sleeves

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** (Yes) No

2. **Percentage Fill (%)** 100

3. **Fill Description (circle all that apply)**

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel		N/A

(Other) Fillmin lower interval indicators (ss & siltstone gravel)

Is Staining Present Yes (No)

Color Dark brown (10yr 3/3)

Odor

1. **Odor Strength (circle one)**
   (None) Slight Strong

2. **Odor Description (circle one)**
   Organic Petroleum Chemical
   (N/A) Other _____

Moisture Condition (circle one)
(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments None

a-12/04/13

NA – Not Applicable

Location ID: DG-528	Subarea: NBZ	Date Started: Thursday 12/05/2013	Date Completed: 12/05/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 0.9', 0.4'
Company Name: CDM SMITH	Drill Contractor/Driller: NA		
GPS collected? (Yes) or No	Drill Method: Slide hammer/hand auger		Depth Drilled into Bedrock: NA
Radiological Background: 15/86	Borehole diameter: 2.25"		
PID Background: 0.0	Depth to GW: NA		Sampling Method: Split spoon
Radiological Equipment Used: [✓] MicroR [✓] Alpha/Beta [✓] Pancake	PG Review & No.: Mike Hoffman #7735		Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1		0.0 0.0	16/84 15/10	SL-528 NB2-SB-0.0-0.5	1205	SP-SM	SAND WITH SILT: Dark brown (10YR 3/3); 90% sand, fg, f-m; 10% silt, low plasticity; t SS formation, t organics (roots, twigs, leaves); loose, dry, no odor. (FILL) SAND WITH SILT: same as above with t gravel (siltstone and SS formation), f-c, sr, max ϕ = 1.0", dry, no odor (FILL) Refusal at SS Formation at 0.9', 0.4'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-529-NBZ-SB-0.0-0.5 Date/Time ~~10/21/2013~~ 12/05/2013 1300

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
Soil/Sediment	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Soil/Sediment	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

2 55 sleeves

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present (Yes) No
2. Percentage Fill (%) 100 per 12/2/13 NA
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other ~~Sandstone~~ cal 12/3/13

Is Staining Present Yes (No)

Color ~~very dark grayish brown~~ ~~grayish brown~~ cal 12/05/13 (10YR 3/2)

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Mike Hoffman **PG Registration #** 7735

Additional Comments None

cal 12/05/13

NA – Not Applicable

Location ID:	Subarea:	Date Started:	Date Completed:
DG-529	NBZ	12/05/13 1255	12/05/13

Client: DOE	Project Name/#: Santa Susana Field Lab/99489	Total Depth: 0.8', 0.8'
Company Name: CDM SMITH	Drill Contractor/Driller: NA	
GPS collected? (Yes or No)	Drill Method: Slidehammer	Depth Drilled Into Bedrock: NA
Radiological Background: 15/96	Borehole diameter: 2.25"	
PID Background: 0.0	Depth to GW: NA	Sampling Method: split spoon
Radiological Equipment Used: [✓] MicroR [✓] Alpha/Beta [✓] Pancake	PG Review & No.: Miller Hoffman #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1		0.0 0.0	15/98 15/71	SL-529 NBZ-SB-0.0-0.5	1300	SM	SILTY SAND: very dark grayish brown (10YR3/2), 85% sand, pg, f-m, mostly f; 15% silt, low plasticity; t gravel (SS and siltstone), sr, f-c, max Φ = 1.0"; t organics (fine roots, twigs, leaves); dry; no odor/~~stain~~ remarks Refusal at SS Formation at 0.8', 0.8'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	Φ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-530-NB2-SB-0.0-0.5 Date/Time 12/03/13 0940

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Soil	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 ss sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present (Yes) No
2. Percentage Fill (%) 100
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete (Wood) Glass

Igneous/Metamorphic Gravel N/A

~~Other SS formation SM 6/4~~

Is Staining Present Yes (No)

Color brownish yellow (10YR 6/6)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Nicole Hoffman PG Registration # 7735

Additional Comments None

10/23/13

Location ID: DG-530	Subarea: NBZ	Date Started: TUESDAY 12/03/13 0938	Date Completed: 12/03/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 0.8', 1.1'
Company Name: CDM SMITH		Drill Contractor/Driller: ~~SAPS~~ NA	
GPS collected? Yes or No		Drill Method: slide hammer/hand auger	Depth Drilled into Bedrock: NA
Radiological Background: 16/04		Borehole diameter: 2.25"	
PID Background: 0.1		Depth to GW: NA	Sampling Method: slidehammer
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No.: Mila Hoffman #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1		0.1 0.1 0.1	16/93 15/97 17/97	SL-530-NBZ-SB-0.0-0.5	0940	SP-SM	SAND WITH SILT: Brownish yellow (10YR 6/6); 90% sand, pg, medium; 10% silt, non-plastic; t igneous clasts, t gravel (SS formation), sa-sr, f, max φ = 0.5", t burnt wood/organics; dry, no odor (FILL) Refusal at SS formation at 0.8', 1.1'

CDM Smith **BORING LOG AND SAMPLING RECORD** Page 1 of 1

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	φ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-531-NBZ-SB-0.0-0.5 Date/Time 12/03/2013 1350

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. LOUDEN

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encore	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present (Yes) No
2. Percentage Fill (%) 100
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other Fill observed in lower soil interval

Is Staining Present Yes (No)

Color Brown (7.5YR 4/4)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments None

12/05/13

NA – Not Applicable

Location ID: DG-531	Subarea: NB2	Date Started: TUESDAY 12/03/2013 1345	Date Completed: 12/03/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 2.6', 2.4'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? (Yes) or No		Drill Method: Slidehammer	Depth Drilled into Bedrock: NA
Radiological Background: 16/108		Borehole diameter: 2.25"	
PID Background: 0.1		Depth to GW: NA	Sampling Method:
Radiological Equipment Used: [✓] MicroR [✓] Alpha/Beta [✓] Pancake		PG Review & No.: Julie Hoffman #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.1	17/95	SL-531-NB2-SB-0.0-0.5	1350	SM	SILTY SAND: Brown (7.5YR 4/4); 70% sand, pg, f-m, mostly f; 30% silt, low plastic; t organics (fine roots), ~~FILL~~, dry, no odor (FILL)
		0.1	17/73				
1		0.1	17/102			SM	Same as above with t gravel (SS formation), f, sa-sr, max ϕ = 0.6" and color change to strong brown (~~10~~ 12/3/13 7.5YR 5/6) (FILL)
		0.1	17/92				
2		0.1	16/99				
		0.2	16/81			SM	~~SAND with SILT~~ 12/3/13 SILTY SAND: very pale brown (10YR 7/3); 85% sand, pg, f; 15% silt, low plastic; t gravel (SS formation), f, sa-sr, max ϕ = 0.25", dry, no odor (FILL)
3							Refusal at SS Formation at 2.6', 2.4'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: Erin Lowden

Sample ID: SL-532-NBZ-0.0-0.5 Date/Time: 12/03/13 1020

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: NA

Field Geologist: C. Cox

Sampler: E. Lowden

Analysis

	Parameters	Method	Analyze?
Chem	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Chem	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 55 sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present (Yes) No

2. Percentage Fill (%) 100

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

(Igneous/Metamorphic Gravel) N/A

(Other) SS formation

Is Staining Present Yes (No)

Color Yellowish brown (10YR 5/6)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments None

10/28/13

NA – Not Applicable

Location ID:	Subarea:	Date Started:	Date Completed:
DG-532	NBZ	12/03/13 1025 THES	12/03/13

Client: DOE	Project Name/#: Santa Susana Field Lab/99489	Total Depth: 0.8', 0.8'
Company Name: CDM SMITH	Drill Contractor/Driller: NA	
GPS collected? Yes or No	Drill Method: Slidehammer / handauger	Depth Drilled into Bedrock: NA
Radiological Background: 17/102	Borehole diameter: 2.25"	
PID Background: 0.1	Depth to GW: NA	Sampling Method: ~~Slide~~ LC 11/03/13 Split spoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: Millie Hoffman #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1		0.1 0.1	17/108 17/93	SL-532-NBZ-SB-0.0-0.5	1020	SP-SM	SAND WITH SILT: yellowish brown (10YR 5/6), 90% sand, pg, f-m, mostly f; 10% silt, Nonplastic, t (SS Formation) gravel, sa-sr, max ϕ = 0.5", t igneous clasts, dry, no odor (full) Refusal at SS formation @ 0.8', 0.8'

CDM Smith **BORING LOG AND SAMPLING RECORD** Page 1 of 1

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-533-NBZ-SB-0.0-0.5 Date/Time 12/03/2013 1305

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. LOUDEN

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	X
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Endpoints	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present (Yes) No
2. Percentage Fill (%) 100
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete (Wood) Glass

Igneous/Metamorphic Gravel N/A

(Other) ~~SS formation~~ - SM\014

Is Staining Present Yes (No) 6/12/13

Color Brown (7.5 YR 4/3)

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Mike Hoffman **PG Registration #** 7735

Additional Comments None

6/12/13

NA – Not Applicable

Location ID: DG-533	Subarea: NBZ	Date Started: TUESDAY 12/03/2013 1300	Date Completed: 12/03/2013
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 0.6', 0.5'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? Yes or No		Drill Method: Slidehammer/hand auger	Depth Drilled into Bedrock: NA
Radiological Background: 17/92		Borehole diameter: 2.25"	
PID Background: 0.1		Depth to GW: NA	Sampling Method: Split spoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No.: Michelle Hoffman #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1		0.1 0.1	17/108 15/100	SL-533-NBZ-SB-0.0-0.5	1305	SP-SM	SAND WITH SILT: Brown (7.5YR 4/3); 90% sand, pg; f-m, mostly m; 10% silt, non plastic; t gravel (SS formation), f, sa-sr, max ϕ = 0.75"; t igneous clast, t burnt twigs; dry, no odor (FILL) Refusal at SS formation @ 0.6', 0.5'

CDM Smith **BORING LOG AND SAMPLING RECORD** Page 1 of 1

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-534-NB2-SB-0.0-0.5 Date/Time 12/06/13 0910

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Soil	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 55 sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present: Yes (No)
2. Percentage Fill (%): N/A
3. Fill Description (circle all that apply)

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel	(N/A)	
Other: _____		

Is Staining Present Yes (No)

Color Yellowish brown (10YR 5/6)

Odor

1. Odor Strength (circle one): (None) Slight Strong
2. Odor Description (circle one): Organic Petroleum Chemical (N/A) Other: _____

Moisture Condition (circle one): (Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments None

10/24/13

NA – Not Applicable

Location ID: DG-534	Subarea: NB2	Date Started: FRIDAY 12/06/13 0914	Date Completed: 12/06/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 0.9', 0.7
Company Name: CDM SMITH	Drill Contractor/Driller: NA		
GPS collected? (Yes or No)	Drill Method: Slide hammer/hand auger		Depth Drilled into Bedrock: NA
Radiological Background: 14/95	Borehole diameter: 2.25"		
PID Background: 0.0	Depth to GW: NA		Sampling Method: split spoon
Radiological Equipment Used: [✓] MicroR [✓] Alpha/Beta [✓] Pancake	PG Review & No.: [illegible] #7735		Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1		0.0 0.0	14/77 14/68	SL-534-NB2-SB-0.0-0.5	0910	SM	SILTY SAND: yellowish brown (10YR 5/6), 80% sand, pg, f-m; 20% silt, low plasticity; t gravel (SS Formation), f-c, sa, max ϕ 1.5", dry, no odor Refusal at SS Formation at 0.9', 0.7'

CDM Smith **BORING LOG AND SAMPLING RECORD** Page 1 of 1

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-535-NB2-SB-0.0-0.5 Date/Time 12/06/13 1010

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO.4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO.4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present: Yes (No)
2. Percentage Fill (%): NA
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color Dark brown (7.5YR 3/2)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** _____

Additional Comments None

10/24/13

NA – Not Applicable

Location ID: DG-535	Subarea: NB2	Date Started: FRIDAY 12/06/13 1000	Date Completed: 12/06/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1.3', 2.0'
Company Name: CDM SMITH	Drill Contractor/Driller: NA		
GPS collected? Yes or No	Drill Method: ~~2.2~~ 12/6/13 Slide hammer/ hand auger		Depth Drilled into Bedrock: NA
Radiological Background: 16/90	Borehole diameter: 2.25"		
PID Background: 0.0	Depth to GW: NA		Sampling Method: split spoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: [signature] #7735		Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	17/100	SL-535-NB2-SB-0.0-0.5	1010	SP-SM	SAND WITH SILT: dark brown (7.5YR 3/2); 80% Sand, f-m, mostly f; 10% silt, nonplastic; t(10%) SS formation ~~clasts~~ 12/6/13; dry, no odor SM1614
		0.0	15/56				
1		0.0	16/86				
2		0.0	16/85				refusal at SS Formation at 1.3', 2.0'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-537-NB2-SB-0.0-0.5 Date/Time 12/06/13 1255

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present (Yes) No
2. Percentage Fill (%) 100%
3. Fill Description (circle all that apply)

Asphalt	Metal	Plastic
Concrete	Wood	Glass
(Igneous/Metamorphic Gravel)		N/A
(Other) Siltstone		

Is Staining Present Yes (No)

Color Dark brown (7.5YR 3/2)

Odor

1. Odor Strength (circle one): (None) Slight Strong
2. Odor Description (circle one): Organic Petroleum Chemical (N/A) Other _____

Moisture Condition (circle one): (Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments None

NA – Not Applicable

Location ID: DG-537	Subarea: NB2	Date Started: FRIDAY 12/06/13 1250	Date Completed: 12/06/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1.8', 2.0'
Company Name: CDM SMITH	Drill Contractor/Driller: NA		
GPS collected? (Yes or No)	Drill Method: slidehammer/handauger		Depth Drilled into Bedrock: NA
Radiological Background: 15/92	Borehole diameter: 2-25"		
PID Background: 0.0	Depth to GW: NA		Sampling Method: Splitspoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: [signature] #7735		Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0		0.0	15/91	SL-537-NB2-SB-0.0-0.5	1255	SM	SILTY SAND: Dark brown (7.5YR 3/2); 80% sand, pg, f-m, mostly f; 20% silt, low plasticity; t gravel (igneous), f, sr, max Φ = 0.75"; t organics (twigs, leaves), t siltstone clasts, dry, no odor, loose (Fill)
		0.0	14/86				
1		0.0	14/100				
		0.0	14/97				
2		0.0	15/106				Refusal at SS Formation at 1.8', 2.0'

CDM Smith **BORING LOG AND SAMPLING RECORD** Page 1 of 1

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	Φ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-538-NB2-SB-0.0-0.5 Date/Time 12/06/13 1405

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encore	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Tissue	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

255 Sleeves

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH > 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH > 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** (Yes) No

2. **Percentage Fill (%)** 100

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

(Igneous/Metamorphic Gravel) N/A

(Other) SS Formation

Is Staining Present Yes (No)

Color Brown (10YR 4/3)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments None

NA – Not Applicable

Location ID: DG-538	Subarea: NB2	Date Started: FRIDAY 12/06/13 1355	Date Completed: 12/06/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 0.8', 0.8'
Company Name: CDM SMITH	Drill Contractor/Driller: NA		
GPS collected? Yes or No	Drill Method: Slide hammer/hand auger		Depth Drilled into Bedrock: NA
Radiological Background: 15/96	Borehole diameter: 2.25"		
PID Background: 0.0	Depth to GW: NA		Sampling Method: Split spoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: [signature] #7735		Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	16/82	SL-538-NB2-SB-0.0-0.5	1405	SP-SM	SAND WITH SILT: Brown (10YR4/3); ~~80~~ CC 12/06/13 ~~80~~ CC 12/06/13 85% sand, pg, f-m, mostly f; ~~15~~ CC 12/06/12 10% silt, low plasticity; 5% gravel (SS formation & igneous), f-c, sr, max ϕ=2.5", t cobbles (SS formation), sr, max ϕ=3.5"; dry, no odor (FILL)
		0.0	14/72				Refusal at SS formation at 0.8', 0.8'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

ar: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
d: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-539-NBZ-SB-0.0-0.5 Date/Time 12/12/13 0930

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Enviro	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

2 55 sleeves

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No
2. Percentage Fill (%) N/A

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color Dark yellowish brown (10YR 4/4)

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments Sample indicative of 0.0'-0.4'

NA – Not Applicable

Location ID: DG-539	Subarea: NB2	Date Started: THURS 12/12/13 0925	Date Completed: 12/12/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 0.4', 0.3' 0.4'
Company Name: CDM SMITH	Drill Contractor/Driller: NA		
GPS collected? Yes or No	Drill Method: slidehammer		Depth Drilled Into Bedrock: NA
Radiological Background: 16/92	Borehole diameter: 2.25"		
PID Background: 0.0	Depth to GW: NA		Sampling Method: Split Spoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.? Mike Hoffman #7755		Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological 1 (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	16/88	SL-539-NB2-SB-0.0-0.5	0930	SP	SAND: Dark yellowish brown (10yR 4/4) 95%: sand, pg, f-m; 5%: silt, nonplastic; trace gravel (SS Formation) f, sa-sr, max ϕ = 0.4", dry, no odor; trace organics (leaves, twigs);
		0.0	15/93				

CDM Smith **BORING LOG AND SAMPLING RECORD** Page 1 of 1

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
l: line	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-540-NB2-SB-0.0-0.5MS Date/Time 12/11/13 1420

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	X
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Energetics	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

6 SS sleeves

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No
2. Percentage Fill (%) ~~100~~ CC 12/12/13 N/A
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other SS Formation & siltstone CC 12/12/13

Is Staining Present Yes No

Color Very dark grayish brown (2.5Y 3/2)

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments None

CC 12/11/13

NA – Not Applicable

Location ID: DG-540	Subarea: NB2	Date Started: WEDNESDAY 12/11/13 14	Date Completed: 12/11/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1.6', 1.0'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? Yes or No		Drill Method: Slide hammer	Depth Drilled Into Bedrock: NA
Radiological Background: 16/108		Borehole diameter: 2.25"	
PID Background: 0.0		Depth to GW: NA	Sampling Method: Split Spoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No.: [signature] #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	18/112	SL-540-NB2-SB-0.0-0.5 MS	1420	SM	SILTY SAND: very dark grayish brown (2.5Y 3/2), 75% sand, pg, f-m, mostly f; 25% silt, low plasticity; t gravel (ss formation & siltstone), f-c, sa-sr, max ϕ=1.5"; t organics (twigs, leaves, roots); moist at 1.0'; color changed to dark grayish green (10Y-5GY 4/2) at 1.0' ~~(FILL)~~ [illegible]
		0.0	17/88				
1		0.0	16/80	SL-840-NB2-SB-0.0-0.5	1440		
		0.0	17/95				
							Refusal at SS formation at 1.6', 1.0'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-840-NB2-SB-0.0-0.5 Date/Time 12/11/13 1440

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N (FD) FB RB

Parent Sample ID SL-540-NB2-SB-0.0-0.5MS

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	X
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

2 ss sleeves

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes No
2. Percentage Fill (%) LDD 12/12/13 NA
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other SS formation & siltstone 12/12/13

Is Staining Present Yes No

Color very dark grayish brown (2.5Y 3/2)

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature [signature] PG Registration # 7735

Additional Comments None

12/11/13

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-541-NB2-SB-0.0-0.5 Date/Time 12/11/13 1325

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check If Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	X
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Enfos	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

255 sleeves

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** (Yes) No

2. **Percentage Fill (%)** 100

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

(Igneous/Metamorphic Gravel) N/A

(Other) SS Formation & Sandstone

Is Staining Present Yes (No)

Color yellow with brown (10YR 5/4)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Mike Hoffman **PG Registration #** 7735

Additional Comments None

NA – Not Applicable

Location ID: DG-541	Subarea: NB2	Date Started: WEDNESDAY 12/11/13 1320	Date Completed: 12/11/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1.0', 1.8'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? (Yes) or No		Drill Method: Slidehammer	Depth Drilled into Bedrock: NA
Radiological Background: 15/99		Borehole diameter: 2.25"	
PID Background: 0.0		Depth to GW: NA	Sampling Method: Splitspoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & Nbr: Mike Hoffman #7755	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1		0.0	17/109	SL-541-NB2-SB-0.0-0.5	1325	SP	SAND: yellowish brown (10YR 5/4); 95% sand, fg, f-m, mostly, m; 5% silt, nonplastic; t gravel (SS formation, siltstone, igneous), f-c, max ϕ=1.0", sr-sa; t organics (leaves, twigs); dry; no odor (FILL)
		0.0	15/80				
		0.0	18/86				
		0.0	16/103				
							Refusal at 1.0' & 1.8'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-542-NB2-SB-0.0-0.5 Date/Time 12/11/13 1235

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	X
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Soil & Sediment	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

2 SS Sleeves

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP (circled)	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** (Yes) No
2. **Percentage Fill (%)** ~~10~~ 0 12/12/13 NA
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

(Other) ~~SS formation & siltstone~~ 12/12/13

Is Staining Present Yes (No)

Color yellowish brown (10YR 5/4)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments None

12/12/13

Location ID: DG-542	Subarea: NB2	Date Started: Wednesday 12/11/13 1230	Date Completed: 12/11/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1.1', 0.5'
Company Name: CDM SMITH	Drill Contractor/Driller: NA		
GPS collected? (Yes) or No	Drill Method: slide hammer		Depth Drilled into Bedrock: NA
Radiological Background: 15/89	Borehole diameter: 2.25"		
PID Background: 0.0	Depth to GW: NA		Sampling Method: Split spoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No: Julie Hoffman #7735		Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1		0.0 0.0 0.0	15/90 15/72 17/98	SL-542-NB2-SB-0.0-0.5	1235	SP	~~SAND with silt, F~~ SAND: yellowish brown (10yR5/4); 95% sand, fg, f-m; ~~mostly~~ 5% silt, non plastic; t gravel, fss formation & siltstone), sa-sr, f-c, max ϕ = 1.0", dry, no odor ~~(illegible)~~ 12/11/13 Refusal at 1.1' and 0.5'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-543-NB2-SB-0.0-0.5 Date/Time 12/12/13 1340

Matrix (circle one): Soil (circled) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches Feet (circled)

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer (circled) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N (circled) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** NA
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color Dark yellowish brown (10 yr 3/4)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Mike Hoffman **PG Registration #** 7735

Additional Comments None

NA – Not Applicable

Location ID: DG-543	Subarea: NB2	Date Started: THURSDAY 12/12/13 1335	Date Completed: 12/12/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 0.7', 0.6'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? (Yes) or No		Drill Method: slidehammer	Depth Drilled into Bedrock: NA
Radiological Background: 14/73		Borehole diameter: 2.25"	
PID Background: 0.0		Depth to GW: NA	Sampling Method: Splitspoon
Radiological Equipment Used: ✓ MicroR [✓] Alpha/Beta [✓] Pancake		PG Review & No.: [illegible] #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1		0.0 0.0	15/84 14/75	DG-543-NB2-SB-0.0-0.5	1340	SM	SILTY SAND: Dark yellowish brown (10YR 3/4), 85% sand, pg, f-m, mostly m; 15% silt, low plasticity; t gravel (weathered SS Formation), f-c, sa-sr, max ϕ = 1.5", dry, no odor Refusal @ SS Formation at 0.7' & 0.6'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: E. Louden

Sample ID: SL-544-NB2-SB-0.0-0.5 MS Date/Time: 12/12/13 1420

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID: NA

Field Geologist: C. Cox

Sampler: E. Louden

Analysis

	Parameters	Method	Analyze?
Soil/Sediment	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Soil/Sediment	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** NA

3. Fill Description (circle all that apply)

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel	(N/A)	
Other _____		

Is Staining Present Yes (No)

Color Yellowish brown (10YR 5/6)

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** _____

Additional Comments None

NA – Not Applicable

Location ID: DG-544	Subarea: NB2	Date Started: 12/12/13 THURSDAY 1415	Date Completed: 12/12/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1.1', 1.2'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? Yes or No		Drill Method: Slidehammer	Depth Drilled into Bedrock: NA
Radiological Background: 15/115		Borehole diameter: 2.25"	
PID Background: 0.0		Depth to GW: NA	Sampling Method: Splitspoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No: [signature] #7735	Geologist: C. COX

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	14/94	SL-544-NB2-SB-0.0-0.5MS	1420	SM	SILTY SAND: yellowish brown (10YR 5/6), 85% sand, pg, f-m, mostly m; 15% silt, low plasticity; t gravel at 0.8' (SS Formation), f-c, sa-sr, max ϕ=1.5", moist at 1.1', no odor
		0.0	13/81				
1		0.0	14/108	SL-844-NB2-SB-0.0-0.5	1440		
							Refusal at SS Formation @ 1.1', 1.2'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By: E. Louden

Sample ID: SL-844-NB2-SB-0.0-0.5 Date/Time: 12/12/13 1440

Matrix (circle one): (Soil) Sediment Water

Start Depth: 0.0

End Depth: 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite: ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N (FD) FB RB

Parent Sample ID: SL-544-NB2-SB-0.0-0.5 MS

Field Geologist: C. Cox

Sampler: E. Louden

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encore	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) NA
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color Yellowish brown (10YR5/6)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** _____

Additional Comments None

12/12/13

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-545-NB2-SB-0.0-0.5 MS Date/Time 12/04/13 1325

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Soil	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	X
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present (Yes) No
2. Percentage Fill (%) 100
3. Fill Description (circle all that apply)

Asphalt	Metal	Plastic
(Concrete)	Wood	Glass
(Igneous/Metamorphic Gravel)		N/A
(Other) SS Formation		

Is Staining Present Yes (No)

Color Reddish brown (5YR 4/3)

Odor

1. Odor Strength (circle one)
   (None) Slight Strong
2. Odor Description (circle one)
   Organic Petroleum Chemical
   (N/A) Other _____

Moisture Condition (circle one)
(Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments None

10/4/13

Location ID: DG-545	Subarea: NB2	Date Started: 12/04/13	Date Completed: 12/04/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 0.8', 0.7'
Company Name: CDM SMITH	Drill Contractor/Driller: NA		Depth Drilled into Bedrock: 12/04/13 0.8' 0.7' NA
GPS collected? (Yes or No)	Drill Method: slidehammer/handauger		
Radiological Background: 16/14	Borehole diameter: 2.25"		
PID Background: 0.0	Depth to GW: NA		Sampling Method: split spoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: Mulli Hoffman #7735		Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1		0.0 0.0	16/14 14/19	SL-545-NB2-SB-0.0-0.5MS SL-545-NB2-SB-0.0-0.5	1325 1330	SM	SILTY SAND: Reddish brown (5YR4/3); 70% sand, PS, f-m, mostly m; 25% silt, low plasticity; 5% gravel (concrete and weathered SS formation), f-c, sa-sr, max ϕ=20"; + igneous clasts, dry, no odor (Fill) Refusal at SS formation @ 0.8', 0.7'

CDM Smith **BORING LOG AND SAMPLING RECORD** Page 1 of 1

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-845-NBZ-SB-0.0-0.5 Date/Time 12/04/13 1330

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N (FD) FB RB

Parent Sample ID SL-~~845~~-545-NBZ-SB-0.0-0.5 MS
& 12/4/13

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	X
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	X
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Explosives	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	X
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Other	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** (Yes) No

2. **Percentage Fill (%)** 100

3. **Fill Description (circle all that apply)**

Asphalt	Metal	Plastic
(Concrete)	Wood	Glass
(Igneous/Metamorphic Gravel)		N/A
(Other) SS formation		

Is Staining Present Yes (No)

Color reddish brown (5YR 4/3)

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments NONE

11/19/2013

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-546-NB2-SB-0.0-0.5 Date/Time 12/04/2013 0955

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. LOUDEN

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Soil	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)

2. **Percentage Fill (%)** N/A

3. **Fill Description (circle all that apply)**

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel	(N/A)	
Other		

Is Staining Present Yes (No)

Color light olive brown (2.5Y 5/4)

Odor

1. **Odor Strength (circle one)**
   (None) Slight Strong

2. **Odor Description (circle one)**
   Organic Petroleum Chemical
   (N/A) Other

Moisture Condition (circle one)
(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments None

12/04/13

NA – Not Applicable

Location ID: DG-546	Subarea: NB2	Date Started: WEDNESDAY 12/04/2013 0949	Date Completed: 12/04/2013
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 0.6', 0.4'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? Yes or No		Drill Method: Slide hammer/hand auger	Depth Drilled Into Bedrock: NA
Radiological Background: 16/90		Borehole diameter: 2.25"	
PID Background: 0.0		Depth to GW: NA	Sampling Method: Splitspoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No: [signature] #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1		0.0 0.0	16/94 15/77	SL-546-NB2-SB-0.0-0.5	0955	SM	SILTY SAND: Light olive brown (2.5Y 5/4); 75% sand, pg, f-m, mostly m; 20% silt, low plasticity; 5% gravel (SS formation), f-c, sa-sr, max Ø=2.5", ~~dry~~ 12/4/13 t organics (roots & twigs); dry, no odor.
							Refusal at SS formation at 0.6', 0.4'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	φ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-547-NBZ-SB-0.0-0.5 Date/Time 12/04/13 1045

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. COX

Sampler E. LOUDEN

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Soil/Sediment	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** (Yes) No
2. **Percentage Fill (%)** 100
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete (Wood) Glass

(Igneous/Metamorphic Gravel) N/A

(Other) SS formation

Is Staining Present Yes (No)

Color olive brown (2.5Y 4/3)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments Sample is representative of 0.0'-0.3'.

NA – Not Applicable

Location ID: DG-547	Subarea: NB2	Date Started: WEDNESDAY 12/04/13 1040	Date Completed: 12/04/2013
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 0.4, 0.4'
Company Name: CDM SMITH	Drill Contractor/Driller: NA		
GPS collected? Yes or No	Drill Method: Slidehammer/hand auger		Depth Drilled into Bedrock: NA
Radiological Background: 14/100	Borehole diameter: 2.25"		
PID Background: 0.0	Depth to GW: NA		Sampling Method: Split spoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No.: Nikki Gibson #7735		Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	15/101	SL-547-NB2-SB-0.0-0.5	1045	SM	SILTY SAND: Olive brown (2.5Y 4/3); 75% sand, PG, f-m; 20% silt, low plasticity; 5% gravel (SS Formation), f-c, SBR-SR, max Φ = 2.0"; trace igneous clasts, trace micaceous material; trace organics (roots, twigs, leaves); dry no odor (fill)
		0.0	15/92				

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	Φ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By

Sample ID SL-548-NBZ-SB-0.0-0.5 Date/Time 12-4-13 / 1415

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): (DPT) (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

12-4-13

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 2 SS Sleeves

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) None
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color brown (7.5YR 4/4)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] PG Registration # 7735

Additional Comments NA

12.4.13

NA – Not Applicable

Location ID: DG-548	Subarea: NBZ	Date Started: 12-4-13	Date Completed: 12-4-13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1st DPT = 1.0, 2nd DPT = 1.5, 3rd DPT = 1.5
Company Name: CDM SMITH	Drill Contractor/Driller: Strongarm		Depth Drilled into Bedrock: NA
GPS collected? (Yes) or No	Drill Method: DPT		
Radiological Background: γ = 14 α = 108	Borehole diameter: 2.25		Sampling Method: DPT SS Sleeves
PID Background: 0.0 ppm	Depth to GW: NA		
Radiological Equipment Used: [✓] MicroR [✓] Alpha/Beta [✓] Pancake	PG Review & No.: Mulla Hoffman #7735		Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (μR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0.0-0.5	0.5/0.5	0.0	14/103	SL-548 NBZ-SB 0.0-0.5	1415	SM	SILTY SAND, brown (7.5YR 4/4) fg, pg, sr to sa, quartz, dry, loose, tr ant sandstone gravel, mod well cemented — 0.4
		0.0	14/60			SM	fine sized, sr to sa; 70% SD 30% SILT
1	1.0/1.0	0.0	14/96				SILTY SAND, lt yel brn (10YR 6/4) mottled w/ pale brn (10YR 7/4) fgrn w/ some med grn, pg, sr to sa, quartz, dry, loose becoming sli compacted w/ depth, tr ant sandstone gravel as above; 85% SD. 15% SILT — 1.5
		0.0	14/96				
2							Refusal @ 1.5' bls on bedrock

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:				
amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-549-NB2-SB-0.0-0.5 Date/Time 12/04/2013 0855

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
Soil	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Soil	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** N/A
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color Brown (10YR 4/3)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Mike Hoffman **PG Registration #** 7735

Additional Comments None

2/6/13

NA – Not Applicable

Location ID: DG-549	Subarea: NB2	Date Started: 12/04/2013 (WEDNESDAY)	Date Completed: 12/04/2013
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 0.8', 1.1'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? Yes or No		Drill Method: slide hammer	Depth Drilled into Bedrock: NA
Radiological Background: 14/81		Borehole diameter: 2.25"	
PID Background: 0.0		Depth to GW: NA	Sampling Method: Split spoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No: Julie Hoffman #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1		0.0	14/99	SL-549-UB2-SB-0.0-0.5	0855	SM	SILTY SAND: Brown (10YR4/3); 70% sand, pg, f-m, mostly m; 30% silt, low plasticity; dry, no odor.
		0.0	14/78			SM	SILTY SAND: Brown (10YR4/3); 70% sand, pg, f-m, mostly m; 25% silt, low plasticity; 5% gravel (weathered SS), f-c, sa-sr, max ϕ 2.0", dry, no odor.
		0.0	15/104				Refusal at SS formation @ 0.8', 1.1'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Londen

Sample ID SL-551-NBZ-SB-0.0-0.5 Date/Time 12/17/13 1125

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Londen

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** (Yes) No
2. **Percentage Fill (%)** 100
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

(Other) ss formation, red brick

Is Staining Present Yes (No)

Color Dark yellowish brown (10YR 4/4)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments None

NA – Not Applicable

Location ID: DG-551	Subarea: NB2	Date Started: TUES 12/17/13	Date Completed: 12/17/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1.7', 1.5'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? Yes or No		Drill Method: Slidehammer / handauger	Depth Drilled Into Bedrock: NA
Radiological Background: 17/93		Borehole diameter: 2.25"	
PID Background: 0.0		Depth to GW: NA	Sampling Method: Split spoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No: [signature] #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	18/90	SL-551-NB2-SB-0.0-0.5	1125	SM	SILTY SAND: Dark yellowish brown (10YR 4/4); 85% sand, f-c, mostly f, pg; 15% silt, low plasticity; t gravel (SS formation), sa-sr, f, max ø = 1.0"; t red brick; t organics (twigs); dry, no odor (FILL)
		0.0	15/87				
1		0.0	16/83				
		0.0	16/85				
2							Refusal at 1.7', 1.5'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-552-NBZ-SB-0.0-0.5 Date/Time 12/10/13 1445

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Enviros	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Spheric	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean Inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present: Yes (No)
2. Percentage Fill (%): N/A
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color Dark yellowish brown (10YR4/4)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments None

11/7/13

NA – Not Applicable

Location ID: DG-552	Subarea: NB2	Date Started: TUESDAY 12/10/13 1410	Date Completed: 12/10/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 3.0', 3.0'
Company Name: CDM SMITH	Drill Contractor/Driller: NA		
GPS collected? Yes or No	Drill Method: Slidehammer/hand auger		Depth Drilled into Bedrock: NA
Radiological Background: 18/100	Borehole diameter: 2.25"		
PID Background: 0.0	Depth to GW: NA		Sampling Method: Split Spoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake	PG Review & No: [signature] #7735		Geologist: C. Lux

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	16/92	SL-552-NB2-SB-0.0-0.5	1415	SP-SM	SAND WITH SILT: Dark yellowish brown (10YR 4/4); 90% sand, pg, f-m, mostly f; 10% silt, low plasticity; t gravel (weathered SS), f-c, sa-sr, max Φ=2.0" at 2.6'-3.0'.
		0.0	15/78				
1		0.0	15/92				
		0.0	15/92				
2		0.0	15/111				
		0.0	15/101	SL-552-NB2-SB-2.0-3.0	1500		
3		0.0	15/106				
							Refusal at SS Formation at 3.0', 3.0'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	Φ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Lowden

Sample ID SL-552-NB2-SB-2.0-3.0 Date/Time 12/10/13 1500

Matrix (circle one): (Soil) Sediment Water

Start Depth 2.0

End Depth 3.0

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID N/A

Field Geologist C. Cox

Sampler E. Lowden

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Energetics	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** NA
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color Dark yellowish brown (10yr 4/4)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments SS sleeve filled > 3/4 ~~full~~ Full

cc 12/10/13

12/10/13

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-553-NBZ-SB-0.0-0.5 Date/Time 12/10/13 1125

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
Chemistry	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Energetics	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present (Yes) No

2. Percentage Fill (%) 100

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

(Igneous/Metamorphic Gravel) N/A

(Other) Sformation, siltstone

Is Staining Present Yes (No)

Color Brown (10yr 4/3)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature Mike Hoffman **PG Registration #** 7735

Additional Comments None

NA – Not Applicable

Location ID: DG-553	Subarea: NB2	Date Started: MEDT 12/10/13 1120	Date Completed: 12/10/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 0.7', 0.4'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? (Yes) or No		Drill Method: slide hammer/hand auger	Depth Drilled into Bedrock: NA
Radiological Background: 18/106		Borehole diameter: 2.25"	
PID Background: 0.0		Depth to GW: NA	Sampling Method: split spoon
Radiological Equipment Used: [✓] MicroR [✓] Alpha/Beta [✓] Pancake		PG Review & No: Willie Hoffman #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	16/118	SL-553-NB2-SB-0.0-0.5	1125	SM	SILTY SAND: Brown (10YR 4/3); 75% sand, PG, f-m, mostly f; 25% silt, low plasticity; t gravel (weathered SS formation, siltstone, igneous, metamorphic), f-c, sa-sr, max Φ = 1.5"; t organics (twigs, leaves); dry, no odor (FILL)
		0.0	16/67				

CDM Smith

BORING LOG AND SAMPLING RECORD Page 1 of 1

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	Φ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-554-NB2-SB-0.0-0.5 Date/Time 12/10/13 1035

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
Metals		EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
pH		EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Enfos	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Specialty	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** (Yes) No

2. **Percentage Fill (%)** 100

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

(Igneous/Metamorphic Gravel) N/A

(Other) Sandstone & Siltstone

Is Staining Present Yes (No)

Color yellowish brown (10yR 5/4)

Odor

1. **Odor Strength (circle one)**

(None) Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments None

NA – Not Applicable

Location ID: DG-554	Subarea: NB2	Date Started: TUESDAY 12/10/13 1035	Date Completed: 12/10/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 0.7', 0.7', 0.3'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? Yes or No		Drill Method: slidehammer/handauger	Depth Drilled into Bedrock: NA
Radiological Background: 19/91		Borehole diameter: 2.25"	
PID Background: 0.0		Depth to GW: NA	Sampling Method: AA slit spoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		RG Review & No.: Mike Hoffman #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1		0.0 0.0	16/97 15/75	SI-554-NB2-SB-0.0-0.5	1035	SM	SILTY SAND: yellowish brown (10yR 5/4); 80% sand, pg, f-m, mostly m; 15% silt, low plasticity; 5% gravel (SS formation, siltstone, igneous), f-gsa-sr, max ϕ=1.5"; t organics (twigs, leaves); dry, no odor (FILL)
2							

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiologica l (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

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SSFL Phase 3 -- Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Louden

Sample ID SL-555-NB2-SB-0.0-0.5 Date/Time 12/10/13 1005

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Louden

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Ensolve	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS sleeve

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH ≤ 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH ≤ 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** (Yes) No
2. **Percentage Fill (%)** 100%
3. **Fill Description (circle all that apply)**

Asphalt	Metal	Plastic
Concrete	Wood	Glass
(Igneous/Metamorphic Gravel)		N/A
(Other) Siltstone		

Is Staining Present Yes (No)

Color Dark yellowish brown (10YR 4/4)

Odor

1. **Odor Strength (circle one)**: (None) Slight Strong
2. **Odor Description (circle one)**: Organic Petroleum Chemical (N/A) Other _____

Moisture Condition (circle one): (Dry) Moist Wet

PG Signature _____ **PG Registration #** 7735

Additional Comments None

12/14/13

NA – Not Applicable

Location ID: DG-555	Subarea: NB2	Date Started: Tuesday 12/10/13 1000	Date Completed: 12/10/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 0.9', 1.0', 1.3'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? Yes or No		Drill Method: slide hammer / hand auger	Depth Drilled into Bedrock: NA
Radiological Background: 15/106		Borehole diameter: 2.25"	
PID Background: 0.0		Depth to GW: NA	Sampling Method: Split spoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No.: [signature] #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
		0.0	15/100	SL-555-NB2-SB-0.0-0.5	1005	SM	SILTY SAND: Dark yellowish brown (10YR 4/4); 65% sand, pg, f-m, mostly f; 35% silt, low plasticity; t gravel (siltstone & igneous), f, sa-sr, max Φ=0.5"; t organics (leaves, twigs); dry, no odor (FILL)
		0.0	14/57				
1		0.0	16/78				
2							Refusal at 0.9', 1.0', 1.3'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

mt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
coarse	lt: light	rnd: rounded	v: very	
dark	m: medium	sa: subangular	wg: well graded	
line	mod: moderate	sr: subrounded	Φ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Kris Larson

Sample ID SL-556-NBZ-SB-0.0-0.5 Date/Time 12-6-13 / 1400

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	X
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encore	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS Sleeve

NA: No: Applicable

SSFL Phase 3 -- Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes (No)
2. **Percentage Fill (%)** None
3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color yellowish brown (10YR5/4)

Odor

1. **Odor Strength (circle one)**

None Slight (Strong)

2. **Odor Description (circle one)**

Organic Petroleum (Chemical)

N/A Other pesticide-like

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature [signature] **PG Registration #** 7735

Additional Comments NA

DRR 12/6/13

NA – Not Applicable

Location ID:	Subarea:	Date Started:	Date Completed:
DG-556	NBZ	12-6-13	12-6-13

Client: DOE — Project Name/#: Santa Susana Field Lab/99489		Total Depth: 1st HA = 5', 2nd HA = 5'
Company Name: CDM SMITH	Drill Contractor/Driller: NA	
GPS collected? (Yes) or No	Drill Method: Slidehammer / HA	Depth Drilled into Bedrock: NA
Radiological Background: β = 13 α = 86	Borehole diameter: 325	
PID Background: 0.0 ppm	Depth to GW: NA	Sampling Method: Slidehammer
Radiological Equipment Used: [✓] MicroR [✓] Alpha/Beta [✓] Pancake	PG Review & No.: Julie Hoffman #7735	Geologist: David Rojas

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
0.0-0.5	0.5/0.5	0.0	13/69	SL-556 NBZ-SB 0.0-0.5	1400	SM	SILTY SAND, yellowish brown (10YR 5/4) mottled w/ brn (10YR 4/3) and pale brown (10YR 6/3) fg w/tr. med grn, pg, sr to sa, quartz, dry, loose, some organics (roots, twigs, & grass leaves) 80% SAND, 20% SILT, pesticide odor strong
		0.0	13/66				
1	HA	0.0	13/60				
2		0.0	13/78			SM	SILTY SAND, v pale brn (10YR 7/4) mottled w/ brownish yellow (10YR 6/6) and yel brn (10YR 6/6) fgrn, pg, sr to sa, quartz, sli compacted becoming mod well compacted w/ depth, dry; 85% SAND 15% SILT; tr to few amt org (roots), mod strong pesticide odor — 2.0
3		0.0	13/66			SM	SILTY SAND, lt yel brn (10YR 6/4) mottled w/ yel brn (10YR 5/4) fg w/tr. amt med grn, pg, sr to sa quartz, mod well compacted tr amt sandstone gravel, tr pesticide odor 85% SD 15% SILT — 3.0
4		0.0	13/72	SL-556 NBZ-SB 4.0-5.0	1430	SP-SM	SAND w/ SILT, yellow (10YR 7/6) mottled w/ brn yel (10YR 6/6) fg w/tr amt med grn, pg, sr to sa, quartz, mod well to well compacted, tr to few amt sandstone gravel increasing w/ depth — 4.0
5		0.0	13/72				Gravel is mod well cemented, sr to sa, sli friable 90% SD 10% SILT — 5.0 Unit is dry.

Ceased advancing boring @ 5' bls

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr: no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	
f: fine	mod: moderate	sr: subrounded	φ: diameter	bgs: below ground surface

Location ID:	Subarea:	Date Started:	Date Completed:
Project: SSFL		Geologist:	Total Depth:

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials

CDM Smith

BORING LOG AND SAMPLING RECORD

Page___of___

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Kris Larson

Sample ID SL-556-NB4-SB-4.0-5.0 Date/Time 12-6-12/ 1430

Matrix (circle one): (Soil) Sediment Water

Start Depth 4.0

End Depth 5.0

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Kris Larson

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	X
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

1 SS Sleeve & 2 Encores

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) None
3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel (N/A)

Other _____

Is Staining Present Yes (No)

Color yellow (10YR 7/6)

Odor

1. Odor Strength (circle one)

(None) Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

(N/A) Other _____

Moisture Condition (circle one)

(Dry) Moist Wet

PG Signature _____ PG Registration # 7735

Additional Comments NA

12-6-13

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By E. Londen

Sample ID SL-557-NB2-SB-0.0-0.5 Date/Time 12/13/13 1055

Matrix (circle one): (Soil) Sediment Water

Start Depth 0.0

End Depth 0.5

Depth Units (circle one): Inches (Feet)

Check if Composite ☐

Collection Method (circle one): DPT (Slide Hammer) Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): (N) FD FB RB

Parent Sample ID NA

Field Geologist C. Cox

Sampler E. Londen

Analysis

	Parameters	Method	Analyze?
Soil/Sediment	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Soil/Sediment	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	
	TPH-EFH	EPA 8015	
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		(SM)	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. Is Fill Material Present Yes (No)
2. Percentage Fill (%) NA
3. Fill Description (circle all that apply)

Asphalt	Metal	Plastic
Concrete	Wood	Glass
Igneous/Metamorphic Gravel	(N/A)	
Other _____		

Is Staining Present Yes (No)

Color Dark yellowish brown (10YR 4/4)

Odor

1. Odor Strength (circle one)
   (None) Slight Strong
2. Odor Description (circle one)
   Organic Petroleum Chemical
   (N/A) Other _____

Moisture Condition (circle one)
(Dry) Moist Wet

PG Signature _____ **PG Registration #** _____

Additional Comments None

10/2/13

NA – Not Applicable

Location ID: DG-557	Subarea: NB2	Date Started: 12/13/13 1045	Date Completed: 12/13/13
Client: DOE	Project Name/#: Santa Susana Field Lab/99489		Total Depth: 0.8', 0.5'
Company Name: CDM SMITH		Drill Contractor/Driller: NA	
GPS collected? (Yes) or No		Drill Method: slidehammer, handauger	Depth Drilled into Bedrock: NA
Radiological Background: 16/93		Borehole diameter: 2.25"	
PID Background: 0.0		Depth to GW: NA	Sampling Method: Split spoon
Radiological Equipment Used: ✓ MicroR ✓ Alpha/Beta ✓ Pancake		PG Review & No.: #7735	Geologist: C. Cox

Depth (feet) bgs	Recovery (feet)	PID (ppm)	Radiological (µR/cpm)	Sample Name	Sample Time	USCS	Description of Materials
1		0.0 0.0 0.0	18/86 18/84 18/94	SL-557-NB2-SB-0.0-0.5	1055	SM	SILTY SAND: Dark yellowish brown (10YR 4/4); 12/13/13 75% sand, pg, f-m, mostly f; 25% silt, low plasticity; t organics (leaves & roots); t gravel (siltstone & SS formation) f, sa-sr, max Ø = 0.4"; dry, no odor. Refusal at 0.8' and 0.5'

CDM Smith

BORING LOG AND SAMPLING RECORD

ABBREVIATIONS:

amt: amount	gr: grained	pg: poorly graded	t: trace	nr:no recovery
c: coarse	lt: light	rnd: rounded	v: very	
dk: dark	m: medium	sa: subangular	wg: well graded	

f: fine	mod: moderate	sr: subrounded	ϕ: diameter	bgs:below ground surface

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Steff Myser

Sample ID EB1-120513 Date/Time 12/05/2013 1430

Matrix (circle one): Soil Sediment Water

Start Depth SDP120513

End Depth

Depth Units (circle one): Inches Feet SDP120513

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N FD FB RB

Parent Sample ID NA

Field Geologist David Rojas

Sampler Pam Hartman

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	
		EPA 6020	
		EPA 7471 (Soil)	
		EPA 7470 (Water)	
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	X
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes No

2. **Percentage Fill (%)** _____

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature _____ **PG Registration #** _____

Additional Comments _____

NBZ

ASTM WATER LOT #: 53038

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Skip Mupel

Sample ID EB2-120513 Date/Time 12/05/2013 1500

Matrix (circle one): Soil Sediment (Water)

Start Depth

End Depth

Depth Units (circle one): Inches Feet

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): N FD FB (RB)

Parent Sample ID NA

Field Geologist David Rojas

Sampler Pam Hartman

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	
		EPA 7470 (Water)	X
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	X
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	X
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Explosives	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

SB20053

Fill Material

1. **Is Fill Material Present** Yes No

2. **Percentage Fill (%)** _____

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature _____ **PG Registration #** _____

Additional Comments _____

NBZ

ASTM WATER LOT # 53038

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Sly Myself

Sample ID EB3-120513 Date/Time 12/05/2013 1530

Matrix (circle one): Soil Sediment Water

Start Depth SM120513

End Depth

Depth Units (circle one): Inches Feet SM120513

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer Hand Auger/Slide Hammer Trenching Sediment

QC Type (circle one): N FD FB RB

Parent Sample ID NA

Field Geologist Catherine Cox

Sampler Pam Hartman

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	
		EPA 7470 (Water)	X
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	X
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	X
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Encores	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	X
	Energetics	EPA 8330	
	Cyanide	EPA 9012	X
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

SM 120513

Fill Material

1. **Is Fill Material Present** Yes No

2. **Percentage Fill (%)** _____

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature _____ **PG Registration #** _____

Additional Comments _____

NBZ

ASTM WATER LOT#53038

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Skyler Myers

Sample ID EBI-121113 Date/Time 12/11/2013 1430

Matrix (circle one): Soil Sediment (Water)

Start Depth EBI-121113

End Depth

Depth Units (circle one): Inches Feet EBI-121113

Check If Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): N FD FB (RB)

Parent Sample ID NA

Field Geologist David Rojas

Sampler Pam Hartman

Analysis

	Parameters	Method	Analyze?
Chemistry	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	
		EPA 7470 (Water)	X
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	X
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Energies	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				CH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Sm 10/1/13

Fill Material

1. Is Fill Material Present Yes No

2. Percentage Fill (%) _____

3. Fill Description (circle all that apply)

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. Odor Strength (circle one)

None Slight Strong

2. Odor Description (circle one)

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature _____ **PG Registration #** _____

Additional Comments _____

NBZ

ASTM WATER LOT # 53038

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By Shep Mysel

Sample ID EB2-121113 Date/Time 12/11/2013 1430

Matrix (circle one): Soil Sediment (Water)

Start Depth [illegible]

End Depth [illegible]

Depth Units (circle one): Inches Feet

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): N FD FB (RB)

Parent Sample ID NA

Field Geologist Catherine Cox

Sampler Pam Hartman

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	
		EPA 7470 (Water)	X
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	X
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	X
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	X
	Pesticides	EPA 8081	X

	Parameters	Method	Analyze?
Excess	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	X
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

Fill Material

1. **Is Fill Material Present** Yes No

2. **Percentage Fill (%)** _____

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature _____ **PG Registration #** _____

Additional Comments _____

ASTM WATER LOT# 53038 NBZ

NA – Not Applicable

SSFL Phase 3 – Field Sample Data Sheet

CDM Smith

FSDS Checked By C. Cox

Sample ID EB2-121613 Date/Time 12/16/2013 1530

Matrix (circle one): Soil Sediment (Water)

Start Depth

End Depth

Depth Units (circle one): (Inches) Feet

Check if Composite ☐

Collection Method (circle one): DPT Slide Hammer (Hand Auger/Slide Hammer) Trenching Sediment

QC Type (circle one): N FD FB (RB)

Parent Sample ID NA

Field Geologist Catherine Cox

Sampler Stefanie Mysel

Analysis

	Parameters	Method	Analyze?
	Metals	EPA 6010	X
		EPA 6020	X
		EPA 7471 (Soil)	
		EPA 7470 (Water)	X
	Fluoride	EPA 300.0/9056	
	SVOCs	EPA 8270	
	TIC	EPA 8270	
	PAHs	EPA 8270 SIM	X
	1,4 Dioxane	EPA 8270 SIM	
	Dioxins	EPA 1613	X
	PCBs/PCTs	EPA 8082	
	Perchlorate	EPA 314.0/331	
	Perchlorate Confirmation	EPA 6850/6860	
	pH	EPA 9045 (Soil)	
		EPA 9040 (Water)	X
	Hexavalent Chromium	EPA 7196/7199	
	Herbicides	EPA 8151	
	Pesticides	EPA 8081	

	Parameters	Method	Analyze?
Eurofins	VOCs	EPA 8260	
	1,4 Dioxane	EPA 8260 SIM	
	TPH-GRO	EPA 8015	X
	TPH-EFH	EPA 8015	X
	Glycols	EPA 8015	
	Alcohols	EPA 8015	
	Terphenyls	EPA 8015	
	Nitrates	EPA 300.0/9056	
	Energetics	EPA 8330	
	Cyanide	EPA 9012	
	Formaldehyde	EPA 8315	
	NDMA	EPA 1625	
Sediment	Organotin	NOAA Status and Trends, Krone et al.	
	Methyl Mercury	EPA 1630	
	Total Nitrogen	ASTM D5373	
	TOC	ASTM D5310	
	Grain Size	ASTM 2488-09a	

NA – Not Applicable

SSFL Phase 3 – Field Data Sample Sheet (Sample Descriptions)

Soil Classification (circle one)

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
COARSE GRAINED SOILS CONTAINS MORE THAN 50% FINES	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVEL WITH < 5% FINES		GW	Well-graded GRAVEL
				GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
				GP-GM	Poorly graded GRAVEL with silt
				GP-GC	Poorly graded GRAVEL with clay
		GRAVEL WITH ≥ 15% FINES		GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH < 5% FINES		SW	Well-graded SAND
				SP	Poorly graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
		SAND WITH ≥ 15% FINES		SM	Silty SAND
				SC	Clayey SAND
FINE GRAINED SOILS CONTAINS MORE THAN 50% FINES	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
				CL	Lean inorganic CLAY with low plasticity
				OL	Organic SILT with low plasticity
		LIQUID LIMIT GREATER THAN 50		MH	Elastic inorganic SILT with moderate to high plasticity
				CH	Fat inorganic CLAY with moderate to high plasticity
				OH	Organic SILT or CLAY with moderate to high plasticity
HIGHLY ORGANIC SOILS				PT	PEAT soils with high organic contents

SM 8/14/13

Fill Material

1. **Is Fill Material Present** Yes No

2. **Percentage Fill (%)** _____

3. **Fill Description (circle all that apply)**

Asphalt Metal Plastic

Concrete Wood Glass

Igneous/Metamorphic Gravel N/A

Other _____

Is Staining Present Yes No

Color _____

Odor

1. **Odor Strength (circle one)**

None Slight Strong

2. **Odor Description (circle one)**

Organic Petroleum Chemical

N/A Other _____

Moisture Condition (circle one)

Dry Moist Wet

PG Signature _____ **PG Registration #** _____

Additional Comments _____

ASTM WATER LOT # 53038

NA – Not Applicable

NBZ

Appendix F
Chain of Custodies

SAMPLE DELIVERY GROUP

PH027

SDG-PH027

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 4/9/2013
CarrierName: FedEx
AirbillNo: 799485562831

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130409-01
Cooler #: 1, 2
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
SL-539-SA7-SB-0.0-0.5	4/8/13 12:45	SO	None	2 - SS-Sleeve	0	X	X					X		X	X										X											
SL-539-SA7-SB-0.0-0.5	4/8/13 12:45	SO	None	1 - 4 oz glass	0													X																		
SL-542-SA7-SB-0.0-0.5	4/9/13 08:40	SO	None	2 - SS-Sleeve	0	X	X					X		X	X										X											
SL-542-SA7-SB-0.0-0.5	4/9/13 08:40	SO	None	1 - 4 oz glass	0													X																		
SL-540-SA7-SB-0.0-0.5MS	4/9/13 10:10	SO	None	6 - SS-Sleeve	0	X	X					X		X	X																	X				MS/MSD
SL-540-SA7-SB-0.0-0.5MS	4/9/13 10:10	SO	None	2 - 16 oz glass	0															X					X											MS/MSD
SL-840-SA7-SB-0.0-0.5	4/9/13 10:15	SO	None	2 - SS-Sleeve	0	X	X					X		X	X																	X				
SL-840-SA7-SB-0.0-0.5	4/9/13 10:15	SO	None	2 - 4 oz glass	0															X					X											
SL-544-SA7-SB-0.0-0.5	4/9/13 13:05	SO	None	2 - SS-Sleeve	0	X	X					X		X	X										X											
SL-544-SA7-SB-0.0-0.5	4/9/13 13:05	SO	None	1 - 4 oz glass	0													X																		
SL-546-SA7-SB-0.0-0.5	4/9/13 14:15	SO	None	1 - SS-Sleeve	0									X																						

Special Instructions:

Sampler:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time

SAMPLE DELIVERY GROUP

PH028

SSFL Phase 3 Chain of Custody

SDG - PL1028

CDM Smith

DateShipped: 4/10/2013
CarrierName: FedEx
AirbillNo: 7994 9700 1597

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130410-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
SL-547-SA7-SB-0.0-0.5	4/9/13 15:10	SO	None	2 - SS-Sleeve	0	X	X					X		X	X											X										
SL-547-SA7-SB-0.0-0.5	4/9/13 15:10	SO	None	1 - 4 oz glass	0													X																		
SL-552-SA7-SB-0.0-0.5	4/10/13 09:05	SO	None	2 - SS-Sleeve	0	X	X					X		X	X											X										
SL-552-SA7-SB-0.0-0.5	4/10/13 09:05	SO	None	1 - 4 oz glass	0													X																		
SL-551-SA7-SB-0.0-0.5	4/10/13 09:55	SO	None	2 - SS-Sleeve	0	X	X					X		X	X											X										
SL-551-SA7-SB-0.0-0.5	4/10/13 09:55	SO	None	1 - 4 oz glass	0													X																		
SL-551-SA7-SB-2.0-3.0	4/10/13 11:00	SO	None	2 - SS-Sleeve	0	X	X					X		X	X											X										
SL-551-SA7-SB-2.0-3.0	4/10/13 11:00	SO	None	1 - 4 oz glass	0													X																		
SL-551-SA7-SB-2.0-3.0	4/10/13 11:00	SO	None	3 - Encore	0																			X												
TB-041013	4/10/13 08:00	WQ	HCl	3 - 40 mL Vial	0																			X												
SL-548-SA7-SB-0.0-0.5	4/10/13 13:50	SO	None	2 - SS-Sleeve	0	X	X					X		X	X											X										
SL-548-SA7-SB-0.0-0.5	4/10/13 13:50	SO	None	1 - 4 oz glass	0													X																		
SL-549-SA7-SB-0.0-0.5	4/10/13 14:40	SO	None	2 - SS-Sleeve	0	X	X					X		X	X											X										
SL-549-SA7-SB-0.0-0.5	4/10/13 14:40	SO	None	1 - 4 oz glass	0													X																		

Special Instructions:

Sampler:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time

SAMPLE DELIVERY GROUP

PH029

SSFL Phase 3 Chain of Custody

SDG- PH029

CDM Smith

DateShipped: 4/11/2013
CarrierName: FedEx
AirbillNo: 7995 0780 9940

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130411-01
Cooler #: 2, 3
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9040 (Water)	pH 9045 (Soil)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
FB-041113	4/11/13 15:00	WQ	HNO3 pH<2	1 - 250 mL Poly	0	X		X																												
FB-041113	4/11/13 15:00	WQ	None	1 -	0				X																												Container is 1 L Poly
FB-041113	4/11/13 15:00	WQ	None	1 - 250 mL Amber	0					X																											
FB-041113	4/11/13 15:00	WQ	None	1 - 250 mL Amber	0							X																									
FB-041113	4/11/13 15:00	WQ	None	1 - 1 L Amber	0									X																							
FB-041113	4/11/13 15:00	WQ	None	1 - 250 mL Amber	0											X																					
FB-041113	4/11/13 15:00	WQ	None	1 - 40 mL Vial	0												X																				
FB-041113	4/11/13 15:00	WQ	None	1 - 250 mL Poly	0													X																			
FB-041113	4/11/13 15:00	WQ	None	1 - 250 mL Poly	0														X																		
FB-041113	4/11/13 15:00	WQ	None	1 - 1 L Amber	0															X																	
FB-041113	4/11/13 15:00	WQ	None	1 - 250 mL Amber	0																X																
FB-041113	4/11/13 15:00	WQ	HCl	3 - 40 mL Vial	0																	X														
FB-041113	4/11/13 15:00	WQ	HCl	3 - 40 mL Vial	0																		X													
FB-041113	4/11/13 15:00	WQ	HCl	3 - 40 mL Vial	0																			X												
FB-041113	4/11/13 15:00	WQ	HCl	2 - 1 L Amber	0																				X											
FB-041113	4/11/13 15:00	WQ	None	2 - 40 mL Vial	0																					X										
FB-041113	4/11/13 15:00	WQ	HCl	2 - 40 mL Vial	0																						X									
FB-041113	4/11/13 15:00	WQ	HCl	1 - 1 L Amber	0																							X								
FB-041113	4/11/13 15:00	WQ	None	6 - 40 mL Vial	0																								X							Anions EPA 300.0 |
FB-041113	4/11/13 15:00	WQ	None	2 - 1 L Amber	0																									X						
FB-041113	4/11/13 15:00	WQ	NaOH	1 - 250 mL Poly	0																										X					
FB-041113	4/11/13 15:00	WQ	None	1 - 8 oz glass	0																											X				
FB-041113	4/11/13 15:00	WQ	H2SO4 pH<2	1 - 16 oz glass	0																															Ammonia EPA 350.3 |

SSFL Phase 3 Chain of Custody

SDG - PH029

CDM Smith

DateShipped: 4/11/2013
CarrierName: FedEx
AirbillNo: 7995 0780 9940

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130411-01
Cooler #: 2, 3
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9040 (Water)	pH 9045 (Soil)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes

Special Instructions:

Sampler:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time

SSFL Phase 3 Chain of Custody

SDG- P14029

CDM Smith

DateShipped: 4/11/2013
CarrierName: FedEx
AirbillNo: 7995 0780 9940

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130411-02
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
SL-553-SA7-SB-0.0-0.5	4/11/13 08:10	SO	None	2 - SS-Sleeve	0	X	X					X		X	X										X											
SL-553-SA7-SB-0.0-0.5	4/11/13 08:10	SO	None	1 - 4 oz glass	0													X																		
SL-554-SA7-SB-0.0-0.5	4/11/13 09:00	SO	None	2 - SS-Sleeve	0	X	X					X		X	X										X											
SL-554-SA7-SB-0.0-0.5	4/11/13 09:00	SO	None	1 - 4 oz glass	0													X																		
SL-555-SA7-SB-0.0-0.5	4/11/13 10:15	SO	None	2 - SS-Sleeve	0	X	X					X		X	X										X											
SL-555-SA7-SB-0.0-0.5	4/11/13 10:15	SO	None	1 - 4 oz glass	0													X																		
SL-536-SA7-SB-0.0-0.5	4/11/13 12:55	SO	None	2 - SS-Sleeve	0	X	X					X		X	X										X											
SL-536-SA7-SB-0.0-0.5	4/11/13 12:55	SO	None	1 - 4 oz glass	0													X																		

Sampler:

Special Instructions:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time

SSFL Phase 3 Chain of Custody

SDG - PH029

CDM Smith

DateShipped: 4/11/2013
CarrierName: FedEx
AirbillNo: 7995 0780 9940

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130411-03
Cooler #: 4
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9040 (Water)	pH 9045 (Soil)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
EB-041113	4/11/13 15:15	WQ	HNO3 pH<2	1 - 250 mL Poly	0	X		X																												
EB-041113	4/11/13 15:15	WQ	None	1 - 250 mL Amber	0							X																								
EB-041113	4/11/13 15:15	WQ	None	1 - 1 L Amber	0									X																						
EB-041113	4/11/13 15:15	WQ	None	1 - 250 mL Amber	0										X																					
EB-041113	4/11/13 15:15	WQ	None	1 - 250 mL Poly	0														X																	
EB-041113	4/11/13 15:15	WQ	None	1 - 250 mL Poly	0															X																
EB-041113	4/11/13 15:15	WQ	HCl	3 - 40 mL Vial	0																			X												
EB-041113	4/11/13 15:15	WQ	HCl	2 - 1 L Amber	0																				X											

Sampler:

Special Instructions:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time

SAMPLE DELIVERY GROUP

PH030

SDG: PH030

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 4/12/2013
CarrierName: FedEx
AirbillNo: 7995 1854 7712

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130412-01
Cooler #: 1, 2
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7470 (Water) Mercury 7471 (Soil)	Fluoride 300.0/9056	SVOC 8270 TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
TB-041213	4/12/13 08:00	WQ	HCl	3 - 40 mL Vial	10																		X											
EB-041213	4/12/13 08:05	WQ	None	1 - 250 mL Amber	10																									X				
SL-536-SA7-SB-3.0-4.0MS	4/12/13 08:50	SO	None	6 - SS-Sleeve	10	X	X			X		X	X											X										MS/MSD
SL-536-SA7-SB-3.0-4.0MS	4/12/13 08:50	SO	None	1 - 8 oz glass	10											X																	MS/MSD
SL-536-SA7-SB-3.0-4.0MS	4/12/13 08:50	SO	None	9 - Encore	10																		X											MS/MSD
SL-836-SA7-SB-3.0-4.0	4/12/13 09:00	SO	None	2 - SS-Sleeve	10	X	X			X		X	X											X										
SL-836-SA7-SB-3.0-4.0	4/12/13 09:00	SO	None	1 - 4 oz glass	10											X																		
SL-836-SA7-SB-3.0-4.0	4/12/13 09:00	SO	None	3 - Encore	10																		X											
SL-535-SA7-SB-0.0-0.5	4/12/13 10:30	SO	None	2 - SS-Sleeve	10	X	X			X		X	X											X										
SL-535-SA7-SB-0.0-0.5	4/12/13 10:30	SO	None	1 - 4 oz glass	10											X																		
SL-535-SA7-SB-4.0-5.0	4/12/13 10:57	SO	None	2 - SS-Sleeve	10	X	X			X		X	X											X										
SL-535-SA7-SB-4.0-5.0	4/12/13 10:57	SO	None	1 - 4 oz glass	10											X																		
SL-535-SA7-SB-4.0-5.0	4/12/13 10:57	SO	None	3 - Encore	10																		X											
SL-535-SA7-SB-9.0-10.0	4/12/13 11:30	SO	None	2 - 16 oz glass	10	X	X			X		X	X											X										
SL-535-SA7-SB-9.0-10.0	4/12/13 11:30	SO	None	1 - 4 oz glass	10											X																		
SL-535-SA7-SB-9.0-10.0	4/12/13 11:30	SO	None	3 - Encore	10																		X											
SL-534-SA7-SB-0.0-0.5	4/12/13 14:30	SO	None	2 - SS-Sleeve	10	X	X			X		X	X											X										
SL-534-SA7-SB-0.0-0.5	4/12/13 14:30	SO	None	1 - 4 oz glass	10											X																		

SDG -PH030

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 4/12/2013
CarrierName: FedEx
AirbillNo: 7995 1854 7712

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130412-01
Cooler #: 1, 2
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil) Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EPH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes

Special Instructions:

Sampler: Steven Mercer

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
V. Cata	4/12/13										

SAMPLE DELIVERY GROUP

PH031

SDG: PH031

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 4/15/2013
CarrierName: FedEx
AirbillNo: 7995 3119 4130

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130415-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7470 (Water) Mercury 7471 (Soil)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9040 (Water) pH 9045 (Soil)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
TB-041513	4/15/13 08:00	WQ	HCl	3 - 40 mL Vial	10 day																		X											
SL-534-SA7-SB-5.5-6.5	4/15/13 08:45	SO	None	2 - 55-Sleeve	10 day	X	X				X		X	X										X										
SL-534-SA7-SB-5.5-6.5	4/15/13 08:45	SO	None	1 - 4 oz glass	10 day												X																	
SL-534-SA7-SB-5.5-6.5	4/15/13 08:45	SO	None	3 - Encore	10 day																		X											
SL-537-SA7-SB-0.0-0.5	4/15/13 09:50	SO	None	2 - 55-Sleeve	10 day	X	X				X		X	X										X										
SL-537-SA7-SB-0.0-0.5	4/15/13 09:50	SO	None	1 - 4 oz glass	10 day												X																	
SL-538-SA7-SB-0.0-0.5	4/15/13 10:50	SO	None	2 - 55-Sleeve	10 day	X	X				X		X	X										X										
SL-538-SA7-SB-0.0-0.5	4/15/13 10:50	SO	None	1 - 4 oz glass	10 day												X																	
SL-522-SA7-SB-0.0-0.5	4/15/13 13:30	SO	None	2 - 55-Sleeve	10 day	X	X				X		X	X						X				X										
SL-522-SA7-SB-0.0-0.5	4/15/13 13:30	SO	None	1 - 4 oz glass	10 day												X																	
SL-521-SA7-SB-0.0-0.5	4/15/13 14:15	SO	None	2 - 55-Sleeve	10 day	X	X				X		X	X						X				X										
SL-521-SA7-SB-0.0-0.5	4/15/13 14:15	SO	None	1 - 4 oz glass	10 day												X																	

Special Instructions:

Sampler: Steven Mercer

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
V. Gutz	4/15/13										

SAMPLE DELIVERY GROUP

PH032

PH032

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 4/16/2013
CarrierName: FedEx
AirbillNo: 7995 4183 7052

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130416-01
Cooler #: 2, 3
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9040 (Water)	pH 9045 (Soil)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-DRO 8015	Glycols 8015	Alcohols 8015	Terpenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
FB-041613	4/16/13 15:15	WQ	HNO3 pH<2	1 - 250 mL Poly	10 day	X		X																												
FB-041613	4/16/13 15:15	WQ	None	1 - 250 mL Poly	10 day				X																											
FB-041613	4/16/13 15:15	WQ	None	1 - 250 mL Amber	10 day					X																										
FB-041613	4/16/13 15:15	WQ	None	1 - 250 mL Amber	10 day						X																									
FB-041613	4/16/13 15:15	WQ	None	1 - 1 L Amber	10 day							X																								
FB-041613	4/16/13 15:15	WQ	None	1 - 250 mL Amber	10 day								X																							
FB-041613	4/16/13 15:15	WQ	None	1 - 40 mL Vial	10 day									X																						
FB-041613	4/16/13 15:15	WQ	None	1 - 250 mL Poly	10 day										X																					
FB-041613	4/16/13 15:15	WQ	None	1 - 250 mL Poly	10 day											X																				
FB-041613	4/16/13 15:15	WQ	None	1 - 1 L Amber	10 day												X																			
FB-041613	4/16/13 15:15	WQ	None	1 - 250 mL Amber	10 day													X																		
FB-041613	4/16/13 15:15	WQ	HCl	3 - 40 mL Vial	10 day														X																	
FB-041613	4/16/13 15:15	WQ	HCl	3 - 40 mL Vial	10 day															X																
FB-041613	4/16/13 15:15	WQ	HCl	3 - 40 mL Vial	10 day																X															
FB-041613	4/16/13 15:15	WQ	HCl	2 - 1 L Amber	10 day																	X														
FB-041613	4/16/13 15:15	WQ	None	2 - 40 mL Vial	10 day																		X													
FB-041613	4/16/13 15:15	WQ	HCl	2 - 40 mL Vial	10 day																			X												
FB-041613	4/16/13 15:15	WQ	HCl	1 - 1 L Amber	10 day																				X											
FB-041613	4/16/13 15:15	WQ	None	6 - 40 mL Vial	10 day																					X										Analyze for Nitrite, Bromide, Chloride, Phos FLUORIDE, SULFATE
FB-041613	4/16/13 15:15	WQ	None	2 - 1 L Amber	10 day																						X								
FB-041613	4/16/13 15:15	WQ	NaOH	1 - 250 mL Poly	10 day																							X							
FB-041613	4/16/13 15:15	WQ	None	1 - 250 mL Amber	10 day																								X						
FB-041613	4/16/13 15:15	WQ	H2SO4 pH<2	1 - 8 oz glass	10 day																									X					Analyze for Ammonia by EPA 350.3 |

SDG-PH032

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 4/16/2013
CarrierName: FedEx
AirbillNo: 7995 4183 7052

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130416-01
Cooler #: 2, 3
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil) Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes

Special Instructions:

Sampler: Steven Mercer

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
V. Gbr	4/16/13										

SDG-PH032

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 4/16/2013
CarrierName: FedEx
AirbillNo: 7995 4183 7052

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130416-02
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil) Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270 TIC 8270	PAHs 8270 SIM 1,4 Dioxane 8270 SIM	Dioxins 1613 PCBs/PCTs 8082	Perchlorate 314.0/331 Perchlorate Confirm 6850/6860	pH 9040 (Water) pH 9045 (Soil)	Hex Cr 7196/7199	Herbicides 8151 Pesticides 8081	VOCs 8260 1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015 Glycols 8015	Alcohols 8015	Tetrahenyls 8015 Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315 NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
SL-559-SA7-SB-0.0-0.5	4/16/13 08:45	SO	None	2 - SS-Sleeve	10 day	X	X			X	X X							X								
SL-559-SA7-SB-0.0-0.5	4/16/13 08:45	SO	None	1 - 4 oz glass	10 day								X													
SL-559-SA7-SB-2.0-3.0	4/16/13 09:25	SO	None	2 - SS-Sleeve	10 day	X	X			X	X X							X								
SL-559-SA7-SB-2.0-3.0	4/16/13 09:25	SO	None	1 - 4 oz glass	10 day								X													
SL-559-SA7-SB-2.0-3.0	4/16/13 09:25	SO	None	1 - Encore	10 day													X								
SL-560-SA7-SB-0.0-0.5	4/16/13 10:20	SO	None	2 - SS-Sleeve	10 day	X	X			X	X X							X								
SL-560-SA7-SB-0.0-0.5	4/16/13 10:20	SO	None	1 - 4 oz glass	10 day								X													
SL-560-SA7-SB-3.0-4.0	4/16/13 11:05	SO	None	2 - SS-Sleeve	10 day	X	X			X	X X							X								
SL-560-SA7-SB-3.0-4.0	4/16/13 11:05	SO	None	1 - 4 oz glass	10 day								X													
SL-560-SA7-SB-3.0-4.0	4/16/13 11:05	SO	None	1 - Encore	10 day													X								
SL-561-SA7-SB-0.0-0.5	4/16/13 13:30	SO	None	2 - SS-Sleeve	10 day	X	X			X	X X							X								
SL-561-SA7-SB-0.0-0.5	4/16/13 13:30	SO	None	1 - 4 oz glass	10 day								X													
TB-041613	4/16/13 08:00	WQ	None	3 - 40 mL Vial	10 day													X								
SL-558-SA7-SB-0.0-0.5	4/16/13 14:35	SO	None	2 - SS-Sleeve	10 day	X	X			X	X X							X								
SL-558-SA7-SB-0.0-0.5	4/16/13 14:35	SO	None	1 - 4 oz glass	10 day								X													

Special Instructions:

Sampler: Steven Marcus

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
V. Gtz	4/16/13										

SAMPLE DELIVERY GROUP

PH033

SDG# PH033

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 4/17/2013
CarrierName: FedEx
AirbillNo: 7995 5263 5625

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130417-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7470 (Water)	Mercury 7471 (Soil)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terpenoids 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
TB-041713	4/17/13 08:00	WQ	HCl	3 - 40 mL Vial	10 day																			X												
SL-558-SA7-SB-3.0-4.0	4/17/13 09:00	SO	None	2 - SS-Sleeve	10 day	X		X				X		X	X										X											
SL-558-SA7-SB-3.0-4.0	4/17/13 09:00	SO	None	1 - 4 oz glass	10 day													X																		
SL-558-SA7-SB-3.0-4.0	4/17/13 09:00	SO	None	1 - Encore	10 day																			X												
SL-557-SA7-SB-0.0-0.5	4/17/13 09:40	SO	None	2 - SS-Sleeve	10 day	X		X				X		X	X										X											
SL-557-SA7-SB-0.0-0.5	4/17/13 09:40	SO	None	1 - 4 oz glass	10 day													X																		
SL-505-SA7-SB-0.0-0.5	4/17/13 11:10	SO	None	2 - SS-Sleeve	10 day	X		X				X		X	X										X											
SL-505-SA7-SB-0.0-0.5	4/17/13 11:10	SO	None	1 - 4 oz glass	10 day													X																		
SL-502-SA7-SB-0.0-0.5	4/17/13 13:25	SO	None	2 - SS-Sleeve	10 day	X		X				X		X	X										X											
SL-502-SA7-SB-0.0-0.5	4/17/13 13:25	SO	None	1 - 4 oz glass	10 day													X																		
SL-501-SA7-SB-0.0-0.5	4/17/13 14:00	SO	None	2 - SS-Sleeve	10 day	X		X				X		X	X										X											
SL-501-SA7-SB-0.0-0.5	4/17/13 14:00	SO	None	1 - 4 oz glass	10 day													X																		
SL-500-SA7-SB-0.0-0.5	4/17/13 14:45	SO	None	2 - SS-Sleeve	10 day	X		X				X		X	X										X											
SL-500-SA7-SB-0.0-0.5	4/17/13 14:45	SO	None	1 - 4 oz glass	10 day													X																		

Special Instructions:

Sampler: Steven Mercer

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
V. Gh	4/17/13										

SAMPLE DELIVERY GROUP

PH034

SDG-PH034

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 4/18/2013
CarrierName: FedEx
AirbillNo: 7995 6315 9383

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130418-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	Hex Cr 7196/7199	pH 9040 (Water)	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EPH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Oxamatin	Methyl Mercury 1630	Other Analysis/Notes
SL-531-SA7-SB-0.0-0.5	4/18/13 08:55	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X											X										
SL-531-SA7-SB-0.0-0.5	4/18/13 08:55	SO	None	1 - 4 oz glass	10 day													X																		
SL-532-SA7-SB-0.0-0.5	4/18/13 09:45	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X											X										
SL-532-SA7-SB-0.0-0.5	4/18/13 09:45	SO	None	1 - 4 oz glass	10 day													X																		
SL-533-SA7-SB-0.0-0.5	4/18/13 11:25	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X											X										
SL-533-SA7-SB-0.0-0.5	4/18/13 11:25	SO	None	1 - 4 oz glass	10 day													X																		
SL-530-SA7-SB-0.0-0.5	4/18/13 14:10	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X											X										
SL-530-SA7-SB-0.0-0.5	4/18/13 14:10	SO	None	1 - 4 oz glass	10 day													X																		

Special Instructions:

Sampler: Steven Mason

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
V.Gh	4/18/13										

SDG: PH034

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 4/18/2013
CarrierName: FedEx
AirbillNo: 7995 6315 9383

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130418-02
Cooler #: 2
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7470 (Water) Mercury 7471 (Soil)	Fluoride 300.0/9056	SVOC 8270 TIC 8270	PAHs 8270 SIM 1,4 Dioxane 8270 SIM	Dioxins 1613 PCBs/PCTs 8082	Perchlorate 314.0/331 Perchlorate Confirm 6850/6860	pH 9040 (Water) pH 9045 (Soil)	Hex Cr 7196/7199	Herbicides 8151 Pesticides 8081	VOCs 8260 1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EPH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
EB-041813	4/18/13 15:00	WQ	HNO3 pH<2	1 - 250 mL Amber	10 day	X	X																					
EB-041813	4/18/13 15:00	WQ	None	1 - 250 mL Amber	10 day					X																		
EB-041813	4/18/13 15:00	WQ	None	1 - 1 L Amber	10 day						X																	
EB-041813	4/18/13 15:00	WQ	None	1 - 250 mL Amber	10 day						X																	
EB-041813	4/18/13 15:00	WQ	None	1 - 250 mL Poly	10 day								X															
EB-041813	4/18/13 15:00	WQ	None	1 - 250 mL Amber	10 day										X													
EB-041813	4/18/13 15:00	WQ	HCl	3 - 40 mL Vial	10 day												X											
EB-041813	4/18/13 15:00	WQ	HCl	2 - 1 L Amber	10 day													X										

Special Instructions:

Sampler: Steven Mercer

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
V. Gutz	4/18/13										

SAMPLE DELIVERY GROUP

PH035

SSFL Phase 3 Chain of Custody

SDG- P14035

CDM Smith

DateShipped:	4/19/2013	Contact Name:	Pam Hartman	COC No:	20130419-01
CarrierName:	FedEx	Contact Phone:	(818)466-8007	Cooler #:	1
AirbillNo:	7995 7103 4032			Lab:	Lancaster
				Lab Phone:	717-556-7259
				Lab Address	2425 New Holland Pike Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil) Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Oxamotin	Methyl Mercury 1630	Other Analysis/Notes
SL-518-SA7-SB-0.0-0.5	4/19/13 08:50	SO	None	2 - SS-Sleeve	10 day	X	X				X		X	X											X										
SL-518-SA7-SB-0.0-0.5	4/19/13 08:50	SO	None	1 - 4 oz glass	10 day												X																		
SL-520-SA7-SB-0.0-0.5	4/19/13 09:50	SO	None	2 - SS-Sleeve	10 day	X	X				X		X	X											X										
SL-520-SA7-SB-0.0-0.5	4/19/13 09:50	SO	None	1 - 4 oz glass	10 day												X																		
SL-511-SA7-SB-0.0-0.5	4/19/13 11:05	SO	None	2 - SS-Sleeve	10 day	X	X				X		X	X								X			X										
SL-511-SA7-SB-0.0-0.5	4/19/13 11:05	SO	None	1 - 4 oz glass	10 day												X																		
EB-041913	4/19/13 13:00	WQ	None	1 - 250 mL Amber	10 day																	X													

Sampler: Steven Mercer

Special Instructions:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
V. Catz	4/19/13										

SAMPLE DELIVERY GROUP

PH036

SDG: PH036

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 4/22/2013
CarrierName: FedEx
AirbillNo: 7995 8528 1095

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130422-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
SL-510-SA7-SB-0.0-0.5MS	4/22/13 08:45	SO	None	6 - SS-Sleeve	10 day	X	X					X		X	X							X			X											
SL-510-SA7-SB-0.0-0.5MS	4/22/13 08:45	SO	None	1 - 8 oz glass	10 day													X																		
SL-810-SA7-SB-0.0-0.5	4/22/13 08:50	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X							X			X											
SL-810-SA7-SB-0.0-0.5	4/22/13 08:50	SO	None	1 - 4 oz glass	10 day													X																		
SL-503-SA7-SB-0.0-0.5	4/22/13 10:45	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X							X			X											
SL-503-SA7-SB-0.0-0.5	4/22/13 10:45	SO	None	1 - 4 oz glass	10 day													X																		
SL-504-SA7-SB-0.0-0.5	4/22/13 12:50	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X							X			X											
SL-504-SA7-SB-0.0-0.5	4/22/13 12:50	SO	None	1 - 4 oz glass	10 day													X																		
SL-504-SA7-SB-4.0-5.0	4/22/13 13:55	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X							X			X											
SL-504-SA7-SB-4.0-5.0	4/22/13 13:55	SO	None	1 - 4 oz glass	10 day													X																		
SL-504-SA7-SB-4.0-5.0	4/22/13 13:55	SO	None	1 - Encore	10 day																				X											
TB-042213	4/22/13 08:00	WQ	HCl	3 - 40 mL Vial	10 day																				X											
SL-517-SA7-SB-0.0-0.5	4/22/13 14:50	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X							X			X											
SL-517-SA7-SB-0.0-0.5	4/22/13 14:50	SO	None	1 - 4 oz glass	10 day													X																		

Special Instructions:

Sampler: Steve Mercer

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
V. Gh	4/22/13										

SAMPLE DELIVERY GROUP

PH037

SDG-PH037

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 4/23/2013
CarrierName: FedEx
AirbillNo: 7995 9629 9381

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130423-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7470 (Soil) Mercury 7471 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
TB-042313	4/23/13 08:00	WQ	HCl	3 - 40 mL Vial	10 day																			X												
SL-526-SA7-SB-0.0-0.5	4/23/13 09:25	SO	None	2 - SS-Sleeve	10 day	X	X				X		X	X											X											
SL-526-SA7-SB-0.0-0.5	4/23/13 09:25	SO	None	1 - 4 oz glass	10 day												X																			
SL-526-SA7-SB-3.5-4.5	4/23/13 10:55	SO	None	2 - SS-Sleeve	10 day	X	X				X		X	X											X											
SL-526-SA7-SB-3.5-4.5	4/23/13 10:55	SO	None	1 - 4 oz glass	10 day												X																			
SL-526-SA7-SB-3.5-4.5	4/23/13 10:55	SO	None	1 - Encore	10 day																			X												
SL-512-SA7-SB-0.0-0.5	4/23/13 11:35	SO	None	2 - SS-Sleeve	10 day	X	X				X		X	X											X											
SL-512-SA7-SB-0.0-0.5	4/23/13 11:35	SO	None	1 - 4 oz glass	10 day												X																			
SL-525-SA7-SB-0.0-0.5	4/23/13 14:20	SO	None	2 - SS-Sleeve	10 day	X	X				X		X	X											X											
SL-525-SA7-SB-0.0-0.5	4/23/13 14:20	SO	None	1 - 4 oz glass	10 day												X																			

Sampler: Steven Mercer

Special Instructions:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
V. Cotter	4/23/13										

SAMPLE DELIVERY GROUP

PH038

SDG: PH038

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 4/24/2013
CarrierName: FedEx
AirbillNo: 7996 0718 1815

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130424-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil) Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270 TIC 8270	PAHs 8270 SIM 1,4 Dioxane 8270 SIM	Dioxins 1613 PCBs/PCTs 8082	Perchlorate 314.0/331 Perchlorate Confirm 6850/6860	pH 9045 (Soil)	Hex Cr 7196/7199 pH 9040 (Water)	Herbicides 8151	Pesticides 8081	VOCs 8260 1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
TB-042413	4/24/13 08:00	WQ	HCl	3 - 40 mL Vial	10 day													X											
SL-525-SA7-SB-6.5-7.5	4/24/13 09:10	SO	None	1 - SS-Sleeve	10 day	X	X			X	X	X							X										
SL-525-SA7-SB-6.5-7.5	4/24/13 09:10	SO	None	1 - 8 oz glass	10 day	X	X			X	X	X							X										
SL-525-SA7-SB-6.5-7.5	4/24/13 09:10	SO	None	1 - 4 oz glass	10 day								X																
SL-525-SA7-SB-6.5-7.5	4/24/13 09:10	SO	None	1 - Encore	10 day													X											
SL-529-SA7-SB-0.0-0.5	4/24/13 10:00	SO	None	2 - SS-Sleeve	10 day	X	X			X	X	X							X										
SL-529-SA7-SB-0.0-0.5	4/24/13 10:00	SO	None	1 - 4 oz glass	10 day								X																
SL-528-SA7-SB-0.0-0.5	4/24/13 10:55	SO	None	2 - SS-Sleeve	10 day	X	X			X	X	X							X										
SL-528-SA7-SB-0.0-0.5	4/24/13 10:55	SO	None	1 - 4 oz glass	10 day								X																
SL-527-SA7-SB-0.0-0.5	4/24/13 13:15	SO	None	2 - SS-Sleeve	10 day	X	X			X	X	X							X										
SL-527-SA7-SB-0.0-0.5	4/24/13 13:15	SO	None	1 - 4 oz glass	10 day								X																
SL-527-SA7-SB-2.5-3.5	4/24/13 14:40	SO	None	2 - 16 oz glass	10 day	X	X			X	X	X							X										
SL-527-SA7-SB-2.5-3.5	4/24/13 14:40	SO	None	1 - 4 oz glass	10 day								X																
SL-527-SA7-SB-2.5-3.5	4/24/13 14:40	SO	None	1 - Encore	10 day													X											

Special Instructions:

Sampler: Steven Mercer

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
V. Cota	4/24/13										

SDG- PH038

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 4/24/2013
CarrierName: FedEx
AirbillNo: 7996 0718 1815

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130424-02
Cooler #: 2
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
EB-042413	4/24/13 15:00	WQ	HNO3 pH<2	1 - 250 mL Poly	10 day	X	X																													
EB-042413	4/24/13 15:00	WQ	None	1 - 250 mL Amber	10 day							X																								
EB-042413	4/24/13 15:00	WQ	None	1 - 1 L Amber	10 day									X																						
EB-042413	4/24/13 15:00	WQ	None	1 - 250 mL Amber	10 day										X																					
EB-042413	4/24/13 15:00	WQ	None	1 - 250 mL Poly	10 day														X																	
EB-042413	4/24/13 15:00	WQ	None	1 - 250 mL Amber	10 day																X															
EB-042413	4/24/13 15:00	WQ	HCl	3 - 40 mL Vial	10 day																			X											
EB-042413	4/24/13 15:00	WQ	HCl	2 - 1 L Amber	10 day																				X										
EB-042413	4/24/13 15:00	WQ	None	1 - 250 mL Amber	10 day																														extra bottle

Special Instructions:

Sampler: V. Cortez

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
V. Cortez	4/24/13										

SAMPLE DELIVERY GROUP

PH039

SDG - P14039

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 4/25/2013
CarrierName: FedEx
AirbillNo: 7996 1755 0303

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130425-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil) Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Diqwins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
SL-507-SA7-SB-0.0-0.5	4/24/13 15:05	SO	None	2 - SS-Sleeve	10 day	X	X				X		X	X											X											
SL-507-SA7-SB-0.0-0.5	4/24/13 15:05	SO	None	1 - 4 oz glass	10 day												X																			
TB-042413	4/24/13 08:00	WQ	HCl	3 - 40 mL Vial	10 day																		X													
SL-519-SA7-SB-0.0-0.5MS	4/25/13 08:45	SO	None	6 - SS-Sleeve	10 day	X	X				X		X	X											X											
SL-519-SA7-SB-0.0-0.5MS	4/25/13 08:45	SO	None	1 - 8 oz glass	10 day												X																			
SL-819-SA7-SB-0.0-0.5	4/25/13 08:50	SO	None	2 - SS-Sleeve	10 day	X	X				X		X	X											X											
SL-819-SA7-SB-0.0-0.5	4/25/13 08:50	SO	None	1 - 4 oz glass	10 day												X																			
SL-519-SA7-SB-2.0-3.0	4/25/13 09:50	SO	None	1 - SS-Sleeve	10 day	X	X				X		X	X											X											
SL-519-SA7-SB-2.0-3.0	4/25/13 09:50	SO	None	1 - 16 oz glass	10 day	X	X				X		X	X											X											
SL-519-SA7-SB-2.0-3.0	4/25/13 09:50	SO	None	1 - 4 oz glass	10 day												X																			
SL-519-SA7-SB-2.0-3.0	4/25/13 09:50	SO	None	1 - Encore	10 day																		X													
SL-509-SA7-SB-0.0-0.5	4/25/13 10:40	SO	None	2 - SS-Sleeve	10 day	X	X				X		X	X											X											
SL-509-SA7-SB-0.0-0.5	4/25/13 10:40	SO	None	1 - 4 oz glass	10 day												X																			
SL-506-SA7-SB-0.0-0.5	4/25/13 11:10	SO	None	2 - SS-Sleeve	10 day	X	X				X		X	X											X											
SL-506-SA7-SB-0.0-0.5	4/25/13 11:10	SO	None	1 - 4 oz glass	10 day												X																			
SL-508-SA7-SB-0.0-0.5	4/25/13 13:20	SO	None	2 - SS-Sleeve	10 day	X	X				X		X	X											X											
SL-508-SA7-SB-0.0-0.5	4/25/13 13:20	SO	None	1 - 4 oz glass	10 day												X																			

SDG: PH039

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 4/25/2013
CarrierName: FedEx
AirbillNo: 7996 1755 0303

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130425-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9040 (Water)	pH 9045 (Soil)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
Special Instructions:																																				Sampler: Steve Mercer
Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time																										
V. Cota	4/25/13																																			

SAMPLE DELIVERY GROUP

PH040

SDG: PH040

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 4/26/2013
CarrierName: FedEx
AirbillNo: 7996 2149 4004

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130426-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil) Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270 TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
SL-543A-SA7-SB-0.0-0.5	4/25/13 14:25	SO	None	1 - SS-Sleeve	10 day								X																					
SL-543B-SA7-SB-0.0-0.5	4/25/13 14:40	SO	None	1 - SS-Sleeve	10 day								X																					
SL-543C-SA7-SB-0.0-0.5	4/25/13 14:50	SO	None	1 - SS-Sleeve	10 day								X																					
SL-543D-SA7-SB-0.0-0.5	4/25/13 15:00	SO	None	1 - SS-Sleeve	10 day								X																					
TB-042613	4/26/13 08:00	WQ	HCl	4 - 40 mL Vial	10 day																		X											
SL-562-SA7-SB-0.0-0.5	4/26/13 08:25	SO	None	2 - SS-Sleeve	10 day	X	X			X		X	X											X											
SL-562-SA7-SB-0.0-0.5	4/26/13 08:25	SO	None	1 - 4 oz glass	10 day											X																		
SL-562-SA7-SB-2.0-3.0	4/26/13 09:20	SO	None	2 - SS-Sleeve	10 day	X	X			X		X	X											X											
SL-562-SA7-SB-2.0-3.0	4/26/13 09:20	SO	None	1 - 4 oz glass	10 day											X																		
SL-562-SA7-SB-2.0-3.0	4/26/13 09:20	SO	None	1 - Encore	10 day																		X											

Special Instructions:

Sampler:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
V. Cahn	4/26/13										

SAMPLE DELIVERY GROUP

PH045

SDG-PH045

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 6/3/2013
CarrierName: FedEx
AirbillNo: 799910081427

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130603-03
Cooler #: 3
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
SL-526-SA7-SB-9.0-10.0	6/3/13 11:35	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X										X											
SL-526-SA7-SB-9.0-10.0	6/3/13 11:35	SO	None	1 - 4 oz glass	10 day													X																		
SL-532-SA7-SB-3.0-4.0	6/3/13 10:00	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X										X											
SL-532-SA7-SB-3.0-4.0	6/3/13 10:00	SO	None	1 - 4 oz glass	10 day													X																		
SL-533-SA7-SB-2.5-3.5	6/3/13 09:10	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X										X											
SL-533-SA7-SB-2.5-3.5	6/3/13 09:10	SO	None	1 - 4 oz glass	10 day													X																		
SL-526-SA7-SB-9.0-10.0	6/3/13 11:35	SO	None	2 - Encore	10 day																			X												
SL-532-SA7-SB-3.0-4.0	6/3/13 10:00	SO	None	2 - Encore	10 day																			X												
SL-533-SA7-SB-2.5-3.5	6/3/13 09:10	SO	None	2 - Encore	10 day																			X												
TB-060313	6/3/13 08:00	WQ	HCl	3 - 40 mL Vial	10 day																			X												
SL-525-SA7-SB-4.0-5.0	6/3/13 13:30	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X										X											
SL-525-SA7-SB-4.0-5.0	6/3/13 13:30	SO	None	1 - 4 oz glass	10 day													X																		
SL-525-SA7-SB-9.5-10.5	6/3/13 14:00	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X										X											
SL-525-SA7-SB-9.5-10.5	6/3/13 14:00	SO	None	1 - 4 oz glass	10 day													X																		
SL-525-SA7-SB-4.0-5.0	6/3/13 13:30	SO	None	2 - Encore	10 day																			X												
SL-525-SA7-SB-9.5-10.5	6/3/13 14:00	SO	None	2 - Encore	10 day																			X												

Sampler:

Special Instructions:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time

SDG - PH045

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 6/3/2013

CarrierName: FedEx

AirbillNo: 799910081427

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

COC No: 20130603-01

Cooler #: 1

Lab: Lancaster

Lab Phone: 717-556-7259

Lab Address: 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
EB1-060313	6/3/13 15:00	WQ	HNO3 pH<2	1 - 250 mL Poly	10 day	X		X																												
EB1-060313	6/3/13 15:00	WQ	None	3 - 250 mL Amber	10 day							X		X		X					X															
EB1-060313	6/3/13 15:00	WQ	None	2 - 1 L Amber	10 day								X																							
EB1-060313	6/3/13 15:00	WQ	None	1 - 250 mL Poly	10 day														X																	
EB1-060313	6/3/13 15:00	WQ	HCl	2 - 1 L Amber	10 day																				X											
EB1-060313	6/3/13 15:00	WQ	HCl	3 - 40 mL Vial	10 day																			X												

Sampler:

Special Instructions:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time

SDG-PH045

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 6/3/2013
CarrierName: FedEx
AirbillNo: 799910081427

Contact Name: Ram Hartman
Contact Phone: (818)466-8007

COC No: 20130603-02
Cooler #: 2
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
EB2-060313	6/3/13 15:30	WQ	HNO3 pH<2	1 - 250 mL Poly	10 day	X		X																													
EB2-060313	6/3/13 15:30	WQ	None	3 - 250 mL Amber	10 day							X					X					X															
EB2-060313	6/3/13 15:30	WQ	None	2 - 1 L Amber	10 day										X																						
EB2-060313	6/3/13 15:30	WQ	None	1 - 250 mL Poly	10 day															X																	
EB2-060313	6/3/13 15:30	WQ	HCl	2 - 1 L Amber	10 day																					X											
EB2-060313	6/3/13 15:30	WQ	HCl	3 - 40 mL Vial	10 day																				X												

Sampler:

Special Instructions:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time

SAMPLE DELIVERY GROUP

PH046

SSFL Phase 3 Chain of Custody

SDG-# H0446

CDM Smith

DateShipped: 6/4/2013
CarrierName: FedEx
AirbillNo: 799920832400

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130604-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
SL-545A-SA7-SB-0.0-0.5	6/3/13 14:50	SO	None	1 - SS-Sleeve	10 day									X																							
SL-545B-SA7-SB-0.0-0.5	6/3/13 15:00	SO	None	1 - SS-Sleeve	10 day									X																							
SL-545C-SA7-SB-0.0-0.5	6/3/13 15:10	SO	None	1 - SS-Sleeve	10 day									X																							
SL-513-SA7-SB-0.0-0.5MS	6/4/13 08:30	SO	None	6 - SS-Sleeve	10 day	X	X					X		X	X							X			X											MS/MSD
SL-513-SA7-SB-0.0-0.5MS	6/4/13 08:30	SO	None	1 - 8 oz glass	10 day													X																		MS/MSD
SL-913-SA7-SB-0.0-0.5	6/4/13 08:45	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X							X			X											
SL-913-SA7-SB-0.0-0.5	6/4/13 08:45	SO	None	1 - 4 oz glass	10 day													X																		
SL-516-SA7-SB-0.0-0.5	6/4/13 09:55	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X										X											
SL-516-SA7-SB-0.0-0.5	6/4/13 09:55	SO	None	1 - 4 oz glass	10 day													X																		
SL-524-SA7-SB-1.0-2.0MS	6/4/13 13:20	SO	None	6 - 16 oz glass	10 day	X	X					X		X	X										X											MS/MSD
SL-524-SA7-SB-1.0-2.0MS	6/4/13 13:20	SO	None	1 - 8 oz glass	10 day													X																		MS/MSD
SL-524-SA7-SB-1.0-2.0MS	6/4/13 13:20	SO	None	6 - Encore	10 day																			X												MS/MSD
SL-524-SA7-SB-0.0-0.5	6/4/13 13:10	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X										X											
SL-524-SA7-SB-0.0-0.5	6/4/13 13:10	SO	None	1 - 4 oz glass	10 day													X																		
SL-924-SA7-SB-1.0-2.0	6/4/13 13:30	SO	None	2 - 16 oz glass	10 day	X	X					X		X	X										X											
SL-924-SA7-SB-1.0-2.0	6/4/13 13:30	SO	None	1 - 4 oz glass	10 day													X																		
SL-924-SA7-SB-1.0-2.0	6/4/13 13:30	SO	None	2 - Encore	10 day																			X												
TB-060413	6/4/13 08:00	WQ	HCl	3 - 40 mL Vial	10 day																			X												

SSFL Phase 3 Chain of Custody

SDG-PH046

CDM Smith

DateShipped: 6/4/2013
CarrierName: FedEx
AirbillNo: 799920832400

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130604-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	1,4 Dioxane 8260 SIM	VOCs 8260	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes

Sampler:

Special Instructions:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time

SAMPLE DELIVERY GROUP

PH049

acct# 13013 Cap# 1395500 sample# 7085553-54

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 6/6/2013
CarrierName: FedEx
AirbillNo: 799943102615

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20130606-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
SL-514-SA7-SB-0.0-0.5	6/6/13 08:55	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X											X										
SL-514-SA7-SB-0.0-0.5	6/6/13 08:55	SO	None	1 - 4 oz glass	10 day													X																		
SL-515-SA7-SB-0.0-0.5	6/6/13 09:15	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X							X				X										
SL-515-SA7-SB-0.0-0.5	6/6/13 09:15	SO	None	1 - 4 oz glass	10 day													X																		

Special Instructions:

Sampler: V. Cook

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
Stacy Myers	06/06/13	1600									
									CC Ashley	6/7/13	0920

Subarea 7

SAMPLE DELIVERY GROUP

PH121

SSFL Phase 3 Chain of Custody

SDG PH121

CDM Smith

DateShipped: 10/2/2013
CarrierName: FedEx
AirbillNo: 796825280883

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20131002-02
Cooler #: 2
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
EB2-100213	10/2/13 14:30	WQ	HNO3 pH<2	1 - 250 mL Poly	10 day	X		X																												
EB2-100213	10/2/13 14:30	WQ	None	2 - 250 mL Amber	10 day							X				X																				
EB2-100213	10/2/13 14:30	WQ	None	2 - 1 L Amber	10 day									X																						
EB2-100213	10/2/13 14:30	WQ	None	1 - 250 mL Poly	10 day														X																	
EB2-100213	10/2/13 14:30	WQ	HCl	3 - 40 mL Vial	10 day																			X												
EB2-100213	10/2/13 14:30	WQ	HCl	2 - 1 L Amber	10 day																				X											

Special Instructions:

Sampler:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time

SDG-PH121

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 10/2/2013
CarrierName: FedEx
AirbillNo: 796825280883

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20131002-03
Cooler #: 2
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EPH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes
SL-541-SA7-SB-0.0-0.5	10/2/13 08:45	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X											X										
SL-541-SA7-SB-0.0-0.5	10/2/13 08:45	SO	None	1 - 4 oz glass	10 day													X																		
SL-541-SA7-SB-2.0-3.0	10/2/13 08:50	SO	None	2 - 16 oz glass	10 day	X	X					X		X	X			X								X										
SL-541-SA7-SB-2.0-3.0	10/2/13 08:50	SO	None	2 - Encore	10 day																				X											
TB2-100213	10/2/13 08:00	WQ	HCl	3 - 40 mL Vial	10 day																				X											

Special Instructions:

Sampler:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time

SAMPLE DELIVERY GROUP

PH138

SSFL Phase 3 Chain of Custody

13013 1438204 7300094-115

CDM Smith

DateShipped: 12/3/2013
CarrierName: FedEx
AirbillNo: 7973 0122 0162

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20131203-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Total Nitrogen ASTM D5373	TOC ASTM D5310	Grain Size ASTM 2488-09a	Other Analysis/Notes
SL-502-NBZ-SB-0.0-0.5	12/3/13 09:20	SO	None	1 - SS-Sleeve	10 day																	X			X																
SL-502-NBZ-SB-4.0-5.0	12/3/13 09:35	SO	None	1 - 16 oz glass	10 day																	X			X																
SL-502-NBZ-SB-4.0-5.0	12/3/13 09:35	SO	None	2 - Encore	10 day																				X																
SL-503-NBZ-SB-0.0-0.5	12/3/13 10:00	SO	None	1 - SS-Sleeve	10 day																	X			X																
SL-503-NBZ-SB-2.0-3.0	12/3/13 10:20	SO	None	1 - 16 oz glass	10 day																	X			X																
SL-503-NBZ-SB-2.0-3.0	12/3/13 10:20	SO	None	2 - Encore	10 day																																				
SL-504-NBZ-SB-0.0-0.5MS	12/3/13 10:45	SO	None	2 - SS-Sleeve	10 day																	X			X																
SL-804-NBZ-SB-0.0-0.5	12/3/13 10:55	SO	None	1 - SS-Sleeve	10 day																	X			X																
SL-530-NBZ-SB-0.0-0.5	12/3/13 09:40	SO	None	1 - SS-Sleeve	10 day																	X			X																
SL-531-NBZ-SB-0.0-0.5	12/3/13 13:50	SO	None	1 - SS-Sleeve	10 day																	X			X																
SL-532-NBZ-SB-0.0-0.5	12/3/13 10:20	SO	None	1 - SS-Sleeve	10 day																	X			X																
SL-533-NBZ-SB-0.0-0.5	12/3/13 13:05	SO	None	1 - SS-Sleeve	10 day																X				X																
SL-509-NBZ-SB-2.5-3.5MS	12/3/13 13:30	SO	None	6 - Encore	10 day																				X																
SL-809-NBZ-SB-2.5-3.5	12/3/13 13:40	SO	None	2 - Encore	10 day																				X																
SL-510-NBZ-SB-4.0-5.0	12/3/13 14:45	SO	None	2 - Encore	10 day																				X																
TB-120313	12/3/13 08:00	WQ	HCl	3 - 40 mL Vial	10 day																				X																

Special Instructions:

Sampler:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
	12/3/13	1600									

12.4.13 935

COC Rev 3

SSFL Phase 3 Chain of Custody

13013 1438204 7300094-115

CDM Smith

DateShipped: 12/3/2013
CarrierName: FedEx
AirbillNo: 7973 0122 0162

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20131203-03
Cooler #: 2
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Total Nitrogen ASTM D5373	TOC ASTM D5310	Grain Size ASTM 2488-09a	Other Analysis/Notes
SL-509-NBZ-SB-0.0-0.5	12/3/13 13:15	SO	None	2 - SS-Sleeve	10 day							X		X	X							X				X														
SL-509-NBZ-SB-0.0-0.5	12/3/13 13:15	SO	None	1 - 4 oz glass	10 day													X																						
SL-509-NBZ-SB-2.5-3.5MS	12/3/13 13:30	SO	None	6 - 16 oz glass	10 day							X		X	X			X				X				X														
SL-809-NBZ-SB-2.5-3.5	12/3/13 13:40	SO	None	2 - 16 oz glass	10 day							X		X	X			X				X				X														
SL-510-NBZ-SB-0.0-0.5	12/3/13 14:30	SO	None	1 - 4 oz glass	10 day													X																						
SL-510-NBZ-SB-0.0-0.5	12/3/13 14:30	SO	None	2 - SS-Sleeve	10 day							X		X	X							X				X														
SL-510-NBZ-SB-4.0-5.0	12/3/13 14:45	SO	None	2 - 16 oz glass	10 day							X		X	X			X				X				X														

Special Instructions:

Sampler: [signature]

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
[signature]	12/3/13	1601									
									[signature]	12.4.13	935

COC Rev 3

COC: 20131203-03, Page 1 of 1

SSFL Phase 3 Chain of Custody

13013 1438204 7300094-115

CDM Smith

DateShipped: 12/3/2013
CarrierName: FedEx
AirbillNo: 7973 0122 0162

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20131203-02
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Total Nitrogen ASTM D5373	TOC ASTM D5310	Grain Size ASTM 2488-09a	Other Analysis/Notes
EB-120313	12/3/13 15:00	WQ	None	1 - 250 mL Amber	10 day							X																													

Special Instructions:

Sampler: Pamela Hartman

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
	12/3/13	1600									
									Brianca Davis	12.4.13	935

SAMPLE DELIVERY GROUP

PH139

13013 1438596 7301917-33

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 12/4/2013
CarrierName: FedEx
AirbillNo: 797314998950

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20131204-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Total Nitrogen ASTM D5373	TOC ASTM D5310	Grain Size ASTM 2488-09a	Other Analysis/Notes
SL-506-NBZ-SB-0.0-0.5	12/4/13 10:30	SO	None	1 - 16 oz glass	10 day																	X			X															
SL-507-NBZ-SB-0.0-0.5	12/4/13 10:00	SO	None	1 - 16 oz glass	10 day																	X			X															
SL-507-NBZ-SB-3.5-4.5	12/4/13 10:15	SO	None	1 - 16 oz glass	10 day																	X			X															
SL-507-NBZ-SB-3.5-4.5	12/4/13 10:15	SO	None	2 - Encore	10 day																			X																
SL-508-NBZ-SB-0.0-0.5	12/4/13 09:00	SO	None	2 - SS-Sleeve	10 day							X		X	X							X				X														
SL-508-NBZ-SB-0.0-0.5	12/4/13 09:00	SO	None	1 - 4 oz glass	10 day													X																					
SL-508-NBZ-SB-4.0-5.0	12/4/13 09:15	SO	None	2 - 16 oz glass	10 day							X		X	X			X				X				X														
SL-508-NBZ-SB-4.0-5.0	12/4/13 09:15	SO	None	2 - Encore	10 day																			X																
SL-546-NBZ-SB-0.0-0.5	12/4/13 09:55	SO	None	1 - SS-Sleeve	10 day																					X														
SL-547-NBZ-SB-0.0-0.5	12/4/13 10:45	SO	None	1 - SS-Sleeve	10 day																					X														
SL-549-NBZ-SB-0.0-0.5	12/4/13 08:55	SO	None	1 - SS-Sleeve	10 day																					X														
TB-120413	12/4/13 08:00	WQ	HCl	3 - 40 mL Vial	10 day																			X															
SL-545-NBZ-SB-0.0-0.5MS	12/4/13 13:25	SO	None	6 - SS-Sleeve	10 day	X	X					X		X	X											X					X								MS/MSD
SL-545-NBZ-SB-0.0-0.5MS	12/4/13 13:25	SO	None	1 - 8 oz glass	10 day													X																				MS/MSD
SL-845-NBZ-SB-0.0-0.5	12/4/13 13:30	SO	None	2 - SS-Sleeve	10 day	X	X					X		X	X											X					X								
SL-845-NBZ-SB-0.0-0.5	12/4/13 13:30	SO	None	1 - 4 oz glass	10 day													X																				
SL-511-NBZ-SB-0.0-0.5	12/4/13 12:40	SO	None	2 - SS-Sleeve	10 day	X	X					X		X												X												
SL-511-NBZ-SB-0.0-0.5	12/4/13 12:40	SO	None	1 - 4 oz glass	10 day													X																				
SL-511-NBZ-SB-2.5-3.5	12/4/13 13:00	SO	None	2 - SS-Sleeve	10 day	X	X					X		X												X												
SL-511-NBZ-SB-2.5-3.5	12/4/13 13:00	SO	None	1 - 4 oz glass	10 day													X																				
SL-511-NBZ-SB-2.5-3.5	12/4/13 13:00	SO	None	2 - Encore	10 day																			X															
SL-548-NBZ-SB-0.0-0.5	12/4/13 14:15	SO	None	1 - SS-Sleeve	10 day									X	X											X													

13013 1438596 7301917-33

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 12/4/2013
CarrierName: FedEx
AirbillNo: 797314998950

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20131204-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7470 (Water)	Mercury 7471 (Soil)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	TOC ASTM D5373	Total Nitrogen ASTM D5310	Grain Size ASTM 2488-09a	Other Analysis/Notes

Special Instructions:

Sampler:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
	12/04/2013	1600									
										12/5/13	0850

COC Rev 3

COC 20131204-01, Page 2 of 2

SAMPLE DELIVERY GROUP

PH140

13013 1439434 7306298-310

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 12/5/2013
CarrierName: FedEx
AirbillNo: 797324756363

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20131205-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EPH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Total Nitrogen ASTM D5373	TOC ASTM D5310	Grain Size ASTM 2488-09a	Other Analysis/Notes
EB1-120513	12/5/13 14:30	WQ	None	2 - 1 L Amber	10 day										X																									
EB1-120513	12/5/13 14:30	WQ	HCl	2 - 1 L Amber	10 day																				X															
EB2-120513	12/5/13 15:00	WQ	None	2 - 1 L Amber	10 day									X																										
EB2-120513	12/5/13 15:00	WQ	HCl	2 - 1 L Amber	10 day																				X															

Special Instructions:

Sampler: Pam Hartman

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
Stacy Myers	12/05/2013	1600									
									C Eshleman	12/6/13	0920

COC Rev 3

13013 1439434 7306298-310

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 12/5/2013
CarrierName: FedEx
AirbillNo: 797324756363

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20131205-02
Cooler #: 2
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Total Nitrogen ASTM D5373	TOC ASTM D5310	Grain Size ASTM 2488-09a	Other Analysis/Notes
EB2-120513	12/5/13 15:00	WQ	None	2 - 1 L Amber	10 day																X																			
EB3-120513	12/5/13 15:30	WQ	None	4 - 1 L Amber	10 day									X							X																			
EB3-120513	12/5/13 15:30	WQ	HCl	2 - 1 L Amber	10 day																					X														

Special Instructions:

Sampler: Pam Hartman

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
[signature]	12/05/2013	1600									
									[signature]	12/9/13	0910

COC Rev 3

COC: 20131205-02, Page 1 of 1

SSFL Phase 3 Chain of Custody

13013 1439434 7306298-310

CDM Smith

DateShipped: 12/5/2013
CarrierName: FedEx
AirbillNo: 797324756363

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20131205-03
Cooler #: 3
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	TOC ASTM D5373	Total Nitrogen ASTM D5310	Grain Size ASTM 2488-09a	Other Analysis/Notes
EB1-120513	12/5/13 14:30	WQ	None	3 - 250 mL Amber	10 day																																			
EB1-120513	12/5/13 14:30	WQ	HCl	3 - 40 mL Vial	10 day							X			X							X																		
EB1-120513	12/5/13 14:30	WQ	None	1 - 250 mL Poly	10 day																			X															
EB2-120513	12/5/13 15:00	WQ	None	2 - 250 mL Amber	10 day														X																				
EB2-120513	12/5/13 15:00	WQ	HCl	3 - 40 mL Vial	10 day							X										X																	
EB2-120513	12/5/13 15:00	WQ	HNO3 pH<2	1 - 250 mL Poly	10 day	X		X																X															
EB2-120513	12/5/13 15:00	WQ	None	1 - 250 mL Poly	10 day																																		
EB3-120513	12/5/13 15:30	WQ	HNO3 pH<2	1 - 250 mL Poly	10 day	X		X											X																				
EB3-120513	12/5/13 15:30	WQ	None	3 - 250 mL Amber	10 day							X			X							X																	
EB3-120513	12/5/13 15:30	WQ	None	1 - 250 mL Poly	10 day																			X															
EB3-120513	12/5/13 15:30	WQ	NaOH	1 - 250 mL Poly	10 day														X																				
EB3-120513	12/5/13 15:30	WQ	None	2 - 40 mL Vial	10 day																										X								
EB3-120513	12/5/13 15:30	WQ	HCl	3 - 40 mL Vial	10 day																			X						X									

Special Instructions:

Sampler: P A

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
	12/5/2013	1600									
										12/6/13	0900

COC Rev 9

COC: 20131205-03, Page 1 of 1

SSFL Phase 3 Chain of Custody

13013 1439434 7306298-310

CDM Smith

DateShipped: 12/5/2013
CarrierName: FedEx
AirbillNo: 797324756363

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20131205-04
Cooler #: 4
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Total Nitrogen ASTM D5373	TOC ASTM D5310	Grain Size ASTM 2488-09a	Other Analysis/Notes
TB-120513	12/5/13 08:00	WQ	HCl	3 - 40 mL Vial	10 day																				X															
SL-525-NBZ-SB-0.0-0.5	12/5/13 09:30	SO	None	1 - SS-Sleeve	10 day																X					X														
SL-525-NBZ-SB-4.0-5.0MS	12/5/13 10:45	SO	None	3 - SS-Sleeve	10 day																X					X														MS/MSD
SL-525-NBZ-SB-4.0-5.0MS	12/5/13 10:45	SO	None	6 - Encore	10 day																				X														MS/MSD
SL-825-NBZ-SB-4.0-5.0	12/5/13 11:00	SO	None	1 - SS-Sleeve	10 day																X					X														
SL-825-NBZ-SB-4.0-5.0	12/5/13 11:00	SO	None	2 - Encore	10 day																				X														
SL-526-NBZ-SB-0.0-0.5	12/5/13 11:30	SO	None	1 - SS-Sleeve	10 day																X	X				X														
SL-526-NBZ-SB-2.5-3.5	12/5/13 12:00	SO	None	1 - SS-Sleeve	10 day																X	X				X														
SL-526-NBZ-SB-2.5-3.5	12/5/13 12:00	SO	None	2 - Encore	10 day																				X														
SL-527-NBZ-SB-0.0-0.5	12/5/13 10:45	SO	None	2 - SS-Sleeve	10 day							X		X	X								X																
SL-528-NBZ-SB-0.0-0.5	12/5/13 12:05	SO	None	2 - SS-Sleeve	10 day							X		X	X								X																
SL-529-NBZ-SB-0.0-0.5	12/5/13 13:00	SO	None	2 - SS-Sleeve	10 day							X		X	X								X																

Special Instructions:

Sampler:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
[signature]	12/05/2013	1600									
									[signature]	12/9/13	0910

COC Rev 3

COC: 20131205-04, Page 1 of 1

SAMPLE DELIVERY GROUP

PH141

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 12/6/2013 A-13013
CarrierName: FedEx G-1439273
AirbillNo: 797337756282 S-7305591-99

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20131206-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Total Nitrogen ASTM D5373	TOC ASTM D5310	Grain Size ASTM 2488-09a	Other Analysis/Notes
SL-512-NBZ-SB-0.0-0.5	12/6/13 09:25	SO	None	2 - SS-Sleeve	10 day	X	X					X		X												X															
SL-534-NBZ-SB-0.0-0.5	12/6/13 09:10	SO	None	1 - SS-Sleeve	10 day																					X															
SL-535-NBZ-SB-0.0-0.5	12/6/13 10:10	SO	None	1 - SS-Sleeve	10 day																					X															
SL-501-NBZ-SB-0.0-0.5	12/6/13 12:50	SO	None	1 - SS-Sleeve	10 day	X	X																																		
SL-501-NBZ-SB-0.0-0.5	12/6/13 12:50	SO	None	1 - 4 oz glass	10 day													X																							
SL-537-NBZ-SB-0.0-0.5	12/6/13 12:55	SO	None	1 - SS-Sleeve	10 day									X								X				X															
SL-538-NBZ-SB-0.0-0.5	12/6/13 14:05	SO	None	2 - SS-Sleeve	10 day							X		X								X				X															
SL-556-NBZ-SB-0.0-0.5	12/6/13 14:00	SO	None	1 - SS-Sleeve	10 day																X	X				X															
SL-556-NBZ-SB-4.0-5.0	12/6/13 14:30	SO	None	1 - SS-Sleeve	10 day																X	X				X															
SL-556-NBZ-SB-4.0-5.0	12/6/13 14:30	SO	None	2 - Encore	10 day																				X															
TB-120613	12/6/13 08:00	WQ	HCl	3 - 40 mL Vial	10 day																				X															

Special Instructions:

Sampler:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
[illegible]	12/06/2013	1600									
									[illegible]	12/7/13	1050

COC Rev 3

COC: 20131206-01, Page 1 of 1

SAMPLE DELIVERY GROUP

PH142

SSFL Phase 3 Chain of Custody

A-13013

CDM Smith

DateShipped: 12/9/2013 G-1439666

CarrierName: FedEx S-7307341-54

AirbillNo: 797351083442

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

COC No: 20131209-01

Cooler #: 1

Lab: Lancaster

Lab Phone: 717-556-7259

Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Total Nitrogen ASTM D5373	TOC ASTM D5310	Grain Size ASTM 2488-09a	Other Analysis/Notes
TB-120913	12/9/13 08:00	WQ	HCl	3 - 40 mL Vial	10 day																			X															
SL-514-NBZ-SB-0.0-0.5	12/9/13 12:00	SO	None	1 - SS-Sleeve	10 day																X																		
SL-515-NBZ-SB-0.0-0.5	12/9/13 13:00	SO	None	1 - SS-Sleeve	10 day																X																		
SL-516-NBZ-SB-0.0-0.5	12/9/13 10:30	SO	None	2 - SS-Sleeve	10 day	X	X					X		X												X													
SL-516-NBZ-SB-0.0-0.5	12/9/13 10:30	SO	None	1 - 4 oz glass	10 day													X																				
SL-516-NBZ-SB-4.0-5.0	12/9/13 11:00	SO	None	2 - SS-Sleeve	10 day	X	X					X		X												X													
SL-516-NBZ-SB-4.0-5.0	12/9/13 11:00	SO	None	1 - 4 oz glass	10 day													X																				
SL-516-NBZ-SB-4.0-5.0	12/9/13 11:00	SO	None	2 - Encore	10 day																			X														
SL-513-NBZ-SB-0.0-0.5	12/9/13 10:10	SO	None	1 - SS-Sleeve	10 day																					X												
SL-522-NBZ-SB-0.0-0.5	12/9/13 11:05	SO	None	1 - SS-Sleeve	10 day							X														X			X									
SL-523-NBZ-SB-0.0-0.5	12/9/13 12:45	SO	None	1 - SS-Sleeve	10 day							X														X			X									
SL-524-NBZ-SB-0.0-0.5MS	12/9/13 13:40	SO	None	3 - SS-Sleeve	10 day							X														X			X									MS/MSD
SL-824-NBZ-SB-0.0-0.5	12/9/13 14:30	SO	None	1 - SS-Sleeve	10 day							X														X			X									
SL-522-NBZ-SB-2.5-3.5	12/9/13 11:40	SO	None	1 - 16 oz glass	10 day							X														X			X									
SL-522-NBZ-SB-2.5-3.5	12/9/13 11:40	SO	None	2 - Encore	10 day																			X														

Special Instructions:

Sampler: E. L. K. J.

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
[illegible]	12/09/2013	16:00									
									[illegible]	12/10/13	1135

COC Rev 3

COC: 20131209-01, Page 1 of 1

SAMPLE DELIVERY GROUP

PH143

13013 1439898 7308297-99

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 12/10/2013
CarrierName: FedEx
AirbillNo: 797362493901

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20131210-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7470 (Water)	Mercury 7471 (Soil)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Total Nitrogen ASTM D5373	TOC ASTM D5310	Grain Size ASTM 2488-09a	Other Analysis/Notes
SL-553-NBZ-SB-0.0-0.5	12/10/13 11:25	SO	None	1 - SS-Sleeve	10 day										X																									
SL-554-NBZ-SB-0.0-0.5	12/10/13 10:35	SO	None	1 - SS-Sleeve	10 day										X																									
SL-555-NBZ-SB-0.0-0.5	12/10/13 10:05	SO	None	1 - SS-Sleeve	10 day										X																									

Special Instructions:

Sampler: [signature]

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
[signature]	12/10/2013	1600									
									[signature]	12/11/13	0850

COC Rev 3

COC: 20131210-01, Page 1 of 1

1 of 1

SAMPLE DELIVERY GROUP

PH146

SSFL Phase 3 Chain of Custody

13013 1440439 7310856-59

CDM Smith

DateShipped:	12/11/2013	Contact Name:	Pam Hartman	COC No:	20131211-08
CarrierName:	FedEx	Contact Phone:	(818)466-8007	Cooler #:	3
AirbillNo:	797376645051			Lab:	Lancaster
				Lab Phone:	717-556-7259
				Lab Address	2425 New Holland Pike Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Total Nitrogen ASTM D5373	TOC ASTM D5310	Grain Size ASTM 2488-09a	Other Analysis/Notes
SL-552-NBZ-SB-0.0-0.5	12/10/13 14:15	SO	None	1 - SS-Sleeve	10 day							X																												
SL-552-NBZ-SB-2.0-3.0	12/10/13 15:00	SO	None	1 - SS-Sleeve	10 day							X																												

Special Instructions:

Sampler: [signature]

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
[signature]	12/11/2013	1600									
									[signature]	12/12/13	945

COC Rev 3

COC: 20131211-08, Page 1 of 1

13013 1440439 7310856-59

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 12/11/2013
CarrierName: FedEx
AirbillNo: 797376645051

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20131211-02
Cooler #: 2
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Total Nitrogen ASTM D5373	TOC ASTM D5310	Grain Size ASTM 2488-09a	Other Analysis/Notes
EB1-121113	12/11/13 14:00	WQ	None	2 - 250 mL Amber	10 day							X										X																		
EB1-121113	12/11/13 14:00	WQ	HNO3 pH<2	1 - 250 mL Poly	10 day	X		X																																
EB1-121113	12/11/13 14:00	WQ	None	1 - 250 mL Poly	10 day														X																					
EB1-121113	12/11/13 14:00	WQ	HCl	3 - 40 mL Vial	10 day																			X															
EB2-121113	12/11/13 14:30	WQ	None	3 - 250 mL Amber	10 day							X			X							X																		
EB2-121113	12/11/13 14:30	WQ	HNO3 pH<2	1 - 250 mL Poly	10 day	X		X																																
EB2-121113	12/11/13 14:30	WQ	None	1 - 250 mL Poly	10 day														X																					
EB2-121113	12/11/13 14:30	WQ	HCl	3 - 40 mL Vial	10 day																			X															
EB2-121113	12/11/13 14:30	WQ	None	2 - 1 L Amber	10 day																X																		
EB2-121113	12/11/13 14:30	WQ	None	2 - 40 mL Vial	10 day																									X									

NBZ

Special Instructions:

Sampler: Pa Hart

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
Steve Myers	12/11/2013	1600							Duane Bailey	12/12/13	945

COC Rev 3

COC 20131211-02, Page 1 of 1

13013 1440439 7310856-59

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 12/11/2013
CarrierName: FedEx
AirbillNo: 797376645051

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20131211-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7470 (Water)	Mercury 7471 (Soil)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Total Nitrogen ASTM D5373	TOC ASTM D5310	Grain Size ASTM 2488-09a	Other Analysis/Notes
EB1-121113	12/11/13 14:00	WQ	None	2 - 1 L Amber	10 day									X																										
EB1-121113	12/11/13 14:00	WQ	HCl	2 - 1 L Amber	10 day																				X															
EB2-121113	12/11/13 14:30	WQ	None	2 - 1 L Amber	10 day									X																										
EB2-121113	12/11/13 14:30	WQ	HCl	2 - 1 L Amber	10 day																				X															

NBZ

Special Instructions:

Sampler: Pa Hartman

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
Stacy Myers	12/11/2013	1600									

121213 945

SAMPLE DELIVERY GROUP

PH148

13013 1440744 7312454-66

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 12/12/2013
CarrierName: FedEx
AirbillNo:

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20131212-01
Cooler #: 1
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	TOC ASTM D5373	Total Nitrogen ASTM D5310	Grain Size ASTM 2488-09a	Other Analysis/Notes
SL-540-NBZ-SB-0.0-0.5MS	12/11/13 14:20	SO	None	6 - SS-Sleeve	10 day							X		X							X	X																		MS/MSD
SL-840-NBZ-SB-0.0-0.5	12/11/13 14:40	SO	None	2 - SS-Sleeve	10 day							X		X							X	X																		
SL-541-NBZ-SB-0.0-0.5	12/11/13 13:25	SO	None	2 - SS-Sleeve	10 day							X		X							X	X																		
SL-542-NBZ-SB-0.0-0.5	12/11/13 12:35	SO	None	2 - SS-Sleeve	10 day							X		X							X	X																		
SL-539-NBZ-SB-0.0-0.5	12/12/13 09:30	SO	None	2 - SS-Sleeve	10 day							X		X								X				X														
SL-543-NBZ-SB-0.0-0.5	12/12/13 13:40	SO	None	1 - SS-Sleeve	10 day							X														X														
SL-544-NBZ-SB-0.0-0.5MS	12/12/13 14:20	SO	None	6 - SS-Sleeve	10 day	X	X					X		X								X				X														MS/MSD
SL-544-NBZ-SB-0.0-0.5MS	12/12/13 14:20	SO	None	1 - 16 oz glass	10 day													X																					MS/MSD
SL-844-NBZ-SB-0.0-0.5	12/12/13 14:40	SO	None	2 - SS-Sleeve	10 day	X	X					X		X								X				X														
SL-844-NBZ-SB-0.0-0.5	12/12/13 14:40	SO	None	1 - 4 oz glass	10 day													X																					

Special Instructions:

Sampler:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
[signature]	12/12/2013	16:00									
									[signature]	12/13/13	10:30

SAMPLE DELIVERY GROUP

PH151

SSFL Phase 3 Chain of Custody

CDM Smith

A-13013

DateShipped: 12/13/2013 G-1440980

CarrierName: FedEx

AirbillNo: 797401915901 S-7313727-29

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

COC No: 20131213-02

Cooler #: 1

Lab: Lancaster

Lab Phone: 717-556-7259

Lab Address 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Calc Nitrate_Nitrite_TKN	TOC SM 5310B	Grain Size ASTM 2488-09a	Other Analysis/Notes
SL-505-NBZ-SB-0.0-0.5	12/13/13 13:00	SO	None	2 - SS-Sleeve	10 day	X	X					X		X												X														
SL-505-NBZ-SB-0.0-0.5	12/13/13 13:00	SO	None	1 - 4 oz glass	10 day													X																						
SL-521-NBZ-SB-0.0-0.5	12/13/13 09:35	SO	None	2 - SS-Sleeve	10 day	X	X					X		X												X														
SL-521-NBZ-SB-0.0-0.5	12/13/13 09:35	SO	None	1 - 4 oz glass	10 day													X																						
SL-557-NBZ-SB-0.0-0.5	12/13/13 10:55	SO	None	1 - SS-Sleeve	10 day										X																									

Special Instructions:

Sampler:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
Sly Myrel	12/13	2013	1600								
											1050

12/14/13

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SAMPLE DELIVERY GROUP

PH155

SSFL Phase 3 Chain of Custody

A-13013
G-144/366
S-7315437-43

CDM Smith

DateShipped: 12/16/2013
CarrierName: FedEx
AirbillNo: 797420630910

Contact Name: Pam Hartman
Contact Phone: (818)466-8007

COC No: 20131216-06
Cooler #: 2
Lab: Lancaster
Lab Phone: 717-556-7259
Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EEH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Calc Nitrate_Nitrite_TKN	TOC SM 5310B	Grain Size ASTM 2488-09a	Other Analysis/Notes
SL-517-NBZ-SB-0.0-0.5	12/16/13 13:40	SO	None	2 - SS-Sleeve	10 day	X	X					X		X												X														
SL-517-NBZ-SB-0.0-0.5	12/16/13 13:40	SO	None	1 - 4 oz glass	10 day														X																					
SL-517-NBZ-SB-2.0-3.0	12/16/13 14:20	SO	None	2 - SS-Sleeve	10 day	X	X					X		X												X														
SL-517-NBZ-SB-2.0-3.0	12/16/13 14:20	SO	None	1 - 16 oz glass	10 day														X																					
SL-517-NBZ-SB-2.0-3.0	12/16/13 14:20	SO	None	2 - Encore	10 day																			X																
SL-518-NBZ-SB-0.0-0.5	12/16/13 11:25	SO	None	2 - SS-Sleeve	10 day	X	X					X		X												X														
SL-518-NBZ-SB-0.0-0.5	12/16/13 11:25	SO	None	1 - 4 oz glass	10 day														X																					
SL-519-NBZ-SB-0.0-0.5	12/16/13 12:10	SO	None	2 - SS-Sleeve	10 day	X	X					X		X												X														
SL-519-NBZ-SB-0.0-0.5	12/16/13 12:10	SO	None	1 - 4 oz glass	10 day														X																					
SL-520-NBZ-SB-0.0-0.5	12/16/13 10:30	SO	None	2 - SS-Sleeve	10 day	X	X					X		X												X														
SL-520-NBZ-SB-0.0-0.5	12/16/13 10:30	SO	None	1 - 4 oz glass	10 day														X																					
TB2-121613	12/16/13 08:00	WQ	HCl	3 - 40 mL Vial	10 day																			X																

Special Instructions:

Sampler:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
[illegible]	12/16/2013	1600									
									[illegible]	121913	1010

SSFL Phase 3 Chain of Custody

CDM Smith A-13013

DateShipped: 12/16/2013 G-1441366

CarrierName: FedEx S-7315437-43

AirbillNo: 797420630910

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

COC No: 20131216-01

Cooler #: 1

Lab: Lancaster

Lab Phone: 717-556-7259

Lab Address: 2425 New Holland Pike, Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Calc Nitrate, Nitrite, TKN	TOC SM 5310B	Grain Size ASTM 2488-09a	Other Analysis/Notes
EB2-121613	12/16/13 15:30	WQ	HNO3 pH<2	1 - 250 mL Poly	10 day	X		X																																EB2-121613 is NBZ
EB2-121613	12/16/13 15:30	WQ	None	1 - 250 mL Amber	10 day							X																												
EB2-121613	12/16/13 15:30	WQ	None	2 - 1 L Amber	10 day									X																										
EB2-121613	12/16/13 15:30	WQ	None	1 - 250 mL Poly	10 day														X																				
EB2-121613	12/16/13 15:30	WQ	HCl	2 - 1 L Amber	10 day																				X														
EB2-121613	12/16/13 15:30	WQ	HCl	3 - 40 mL Vial	10 day																			X															

Special Instructions:

Sampler: Stephen Myers

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
Stephen Myers	12/16/2013	1600									
									Bruce Duff	12/17/13	1010

SAMPLE DELIVERY GROUP

PH157

SSFL Phase 3 Chain of Custody

CDM Smith

DateShipped: 12/17/2013

CarrierName: FedEx

AirbillNo: 797427634817

A-13013

G-1441693

S-7316781

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

COC No: 20131217-01

Cooler #: 1

Lab: Lancaster

Lab Phone: 717-556-7259

Lab Address: 2425 New Holland Pike
Lancaster, PA 17601

Sample	Date/ Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SVOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Calc.Nitrate, Nitrite, TKN	TOC SM 5310B	Grain Size ASTM 2488-09a	Other Analysis/Notes
SL-551-NBZ-SB-0.0-0.5	12/17/13 11:25	SO	None	1 - SS-Sleeve	10 day							X																												

Special Instructions:

Sampler:

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Time	Received by	Date	Time
[signature]	12/17/2013	1600									
									[signature]	12/18/13	1045

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