

TABLE 7

**SSFL Chemical Soil Background Study  
Chemical Analytes - Summary of BTV Results**

Analyte Class	Analyte	Unit	Formation	Topography	USL95	Notes
ALCOHOL	Ethanol	ug/kg	Both	Non-Drainage	-	No detects; use sample RL.
ALCOHOL	Methanol	ug/kg	Both	Non-Drainage	369	
CYANIDE	Cyanide	mg/kg	Chatsworth	Non-Drainage	-	Only 4 detects; use sample RL.
CYANIDE	Cyanide	mg/kg	Chatsworth	Drainage	0.429	
CYANIDE	Cyanide	mg/kg	Santa Susana	Both	-	Only 2 detects; use sample RL.
FORM	Formaldehyde	ug/kg	Both	Both	-	Only 3 detects; use sample RL.
GEN	Fluoride	mg/kg	Chatsworth	Both	2.45	
GEN	Fluoride	mg/kg	Santa Susana	Both	11.0	
GEN	Nitrate	mg/kg	Chatsworth	Both	21.3	
GEN	Nitrate	mg/kg	Santa Susana	Both	6.64	
METAL	Aluminum	mg/kg	Chatsworth	Both	38900	
METAL	Aluminum	mg/kg	Santa Susana	Non-Drainage	49767	
METAL	Aluminum	mg/kg	Santa Susana	Drainage	32100	
METAL	Antimony	mg/kg	Both	Both	0.738	
METAL	Arsenic	mg/kg	Chatsworth	Both	39.7	
METAL	Arsenic	mg/kg	Santa Susana	Non-Drainage	15.7	
METAL	Arsenic	mg/kg	Santa Susana	Drainage	13.9	
METAL	Barium	mg/kg	Chatsworth	Non-Drainage	224	
METAL	Barium	mg/kg	Chatsworth	Drainage	216	
METAL	Barium	mg/kg	Santa Susana	Non-Drainage	229	
METAL	Barium	mg/kg	Santa Susana	Drainage	176	
METAL	Beryllium	mg/kg	Chatsworth	Both	2.23	
METAL	Beryllium	mg/kg	Santa Susana	Non-Drainage	1.63	
METAL	Beryllium	mg/kg	Santa Susana	Drainage	1.14	
METAL	Boron	mg/kg	Chatsworth	Both	17.7	
METAL	Boron	mg/kg	Santa Susana	Non-Drainage	36.2	
METAL	Boron	mg/kg	Santa Susana	Drainage	20.1	
METAL	Cadmium	mg/kg	Chatsworth	Both	0.653	
METAL	Cadmium	mg/kg	Santa Susana	Non-Drainage	0.419	
METAL	Cadmium	mg/kg	Santa Susana	Drainage	0.421	
METAL	Calcium	mg/kg	Chatsworth	Non-Drainage	21900	
METAL	Calcium	mg/kg	Chatsworth	Drainage	8253	
METAL	Calcium	mg/kg	Santa Susana	Both	6430	
METAL	Chromium	mg/kg	Chatsworth	Non-Drainage	76.5	
METAL	Chromium	mg/kg	Chatsworth	Drainage	70.4	
METAL	Chromium	mg/kg	Santa Susana	Non-Drainage	64.0	
METAL	Chromium	mg/kg	Santa Susana	Drainage	71.7	
METAL	Cobalt	mg/kg	Chatsworth	Non-Drainage	29.0	
METAL	Cobalt	mg/kg	Chatsworth	Drainage	32.7	
METAL	Cobalt	mg/kg	Santa Susana	Both	21.8	
METAL	Copper	mg/kg	Chatsworth	Non-Drainage	43.0	
METAL	Copper	mg/kg	Chatsworth	Drainage	50.5	
METAL	Copper	mg/kg	Santa Susana	Non-Drainage	36.3	
METAL	Copper	mg/kg	Santa Susana	Drainage	22.9	
METAL	Hexavalent Chromium	mg/kg	Chatsworth	Non-Drainage	1.39	
METAL	Hexavalent Chromium	mg/kg	Chatsworth	Drainage	0.666	
METAL	Hexavalent Chromium	mg/kg	Santa Susana	Both	1.51	
METAL	Iron	mg/kg	Chatsworth	Both	46400	
METAL	Iron	mg/kg	Santa Susana	Non-Drainage	56866	
METAL	Iron	mg/kg	Santa Susana	Drainage	42900	
METAL	Lead	mg/kg	Chatsworth	Non-Drainage	44.1	
METAL	Lead	mg/kg	Chatsworth	Drainage	59.0	
METAL	Lead	mg/kg	Santa Susana	Both	27.9	
METAL	Lithium	mg/kg	Chatsworth	Both	53.5	

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METAL	Lithium	mg/kg	Santa Susana	Non-Drainage	90.5	
METAL	Lithium	mg/kg	Santa Susana	Drainage	51.3	
METAL	Magnesium	mg/kg	Chatsworth	Both	13044	
METAL	Magnesium	mg/kg	Santa Susana	Non-Drainage	15321	
METAL	Magnesium	mg/kg	Santa Susana	Drainage	12928	
METAL	Manganese	mg/kg	Chatsworth	Both	959	
METAL	Manganese	mg/kg	Santa Susana	Both	548	
METAL	Mercury	mg/kg	Both	Both	0.0411	
METAL	Molybdenum	mg/kg	Chatsworth	Both	2.61	
METAL	Molybdenum	mg/kg	Santa Susana	Non-Drainage	1.73	
METAL	Molybdenum	mg/kg	Santa Susana	Drainage	1.86	
METAL	Nickel	mg/kg	Chatsworth	Non-Drainage	93.9	
METAL	Nickel	mg/kg	Chatsworth	Drainage	57.1	
METAL	Nickel	mg/kg	Santa Susana	Non-Drainage	46.4	
METAL	Nickel	mg/kg	Santa Susana	Drainage	30.6	
METAL	Phosphorus	mg/kg	Chatsworth	Both	1135	
METAL	Phosphorus	mg/kg	Santa Susana	Non-Drainage	1088	
METAL	Phosphorus	mg/kg	Santa Susana	Drainage	1008	
METAL	Potassium	mg/kg	Chatsworth	Both	7448	
METAL	Potassium	mg/kg	Santa Susana	Non-Drainage	11128	
METAL	Potassium	mg/kg	Santa Susana	Drainage	8454	
METAL	Selenium	mg/kg	Chatsworth	Non-Drainage	0.656	
METAL	Selenium	mg/kg	Chatsworth	Drainage	0.962	
METAL	Selenium	mg/kg	Santa Susana	Non-Drainage	0.569	
METAL	Selenium	mg/kg	Santa Susana	Drainage	0.595	
METAL	Silver	mg/kg	Chatsworth	Both	0.153	
METAL	Silver	mg/kg	Santa Susana	Both	0.0682	
METAL	Sodium	mg/kg	Chatsworth	Both	1530	
METAL	Sodium	mg/kg	Santa Susana	Non-Drainage	464	
METAL	Sodium	mg/kg	Santa Susana	Drainage	199	
METAL	Strontium	mg/kg	Chatsworth	Both	82.7	
METAL	Strontium	mg/kg	Santa Susana	Non-Drainage	97.3	
METAL	Strontium	mg/kg	Santa Susana	Drainage	70.4	
METAL	Thallium	mg/kg	Chatsworth	Both	0.890	
METAL	Thallium	mg/kg	Santa Susana	Non-Drainage	0.867	
METAL	Thallium	mg/kg	Santa Susana	Drainage	0.604	
METAL	Tin	mg/kg	Both	Both	-	Most detects below a large number of NDs; all detects below the maximum ND; use sample RL.
METAL	Titanium	mg/kg	Chatsworth	Both	1505	
METAL	Titanium	mg/kg	Santa Susana	Non-Drainage	2558	
METAL	Titanium	mg/kg	Santa Susana	Drainage	1916	
METAL	Vanadium	mg/kg	Chatsworth	Both	130	
METAL	Vanadium	mg/kg	Santa Susana	Non-Drainage	120	
METAL	Vanadium	mg/kg	Santa Susana	Drainage	135	
METAL	Zinc	mg/kg	Both	Both	185	
METAL	Zirconium	mg/kg	Chatsworth	Both	7.35	
METAL	Zirconium	mg/kg	Santa Susana	Non-Drainage	12.8	
METAL	Zirconium	mg/kg	Santa Susana	Drainage	13.8	
PERCHLOR	Perchlorate	ug/kg	Chatsworth	Both	0.809	
PERCHLOR	Perchlorate	ug/kg	Santa Susana	Both	-	Most detects below a large number of NDs; only one detect above the maximum ND; use sample RL.
DIOXIN	1,2,3,4,6,7,8-HpCDD	pg/g	Both	Both	3.52	

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DIOXIN	1,2,3,4,6,7,8-HpCDF	pg/g	Both	Non-Drainage	1.03	
DIOXIN	1,2,3,4,6,7,8-HpCDF	pg/g	Both	Drainage	0.882	
DIOXIN	1,2,3,4,7,8,9-HpCDF	pg/g	Both	Both	0.0886	
DIOXIN	1,2,3,4,7,8-HxCDD	pg/g	Both	Both	0.102	
DIOXIN	1,2,3,4,7,8-HxCDF	pg/g	Both	Non-Drainage	0.155	
DIOXIN	1,2,3,4,7,8-HxCDF	pg/g	Both	Drainage	0.171	
DIOXIN	1,2,3,6,7,8-HxCDD	pg/g	Both	Non-Drainage	1.34	
DIOXIN	1,2,3,6,7,8-HxCDD	pg/g	Both	Drainage	0.602	
DIOXIN	1,2,3,6,7,8-HxCDF	pg/g	Both	Both	0.233	
DIOXIN	1,2,3,7,8,9-HxCDD	pg/g	Both	Non-Drainage	1.95	
DIOXIN	1,2,3,7,8,9-HxCDD	pg/g	Both	Drainage	0.804	
DIOXIN	1,2,3,7,8,9-HxCDF	pg/g	Both	Non-Drainage	1.56	
DIOXIN	1,2,3,7,8,9-HxCDF	pg/g	Both	Drainage	0.909	
DIOXIN	1,2,3,7,8-PeCDD	pg/g	Both	Both	0.138	
DIOXIN	1,2,3,7,8-PeCDF	pg/g	Both	Both	0.221	
DIOXIN	2,3,4,6,7,8-HxCDF	pg/g	Both	Both	0.244	
DIOXIN	2,3,4,7,8-PeCDF	pg/g	Both	Non-Drainage	0.263	
DIOXIN	2,3,4,7,8-PeCDF	pg/g	Both	Drainage	0.316	
DIOXIN	2,3,7,8-TCDD	pg/g	Both	Both	0.0358	
DIOXIN	2,3,7,8-TCDF	pg/g	Both	Non-Drainage	0.275	
DIOXIN	2,3,7,8-TCDF	pg/g	Both	Drainage	0.396	
DIOXIN	OCDD	pg/g	Both	Both	23.1	
DIOXIN	OCDF	pg/g	Both	Non-Drainage	1.85	
DIOXIN	OCDF	pg/g	Both	Drainage	1.59	
HERB	2,4,5-T	ug/kg	Both	Both	0.891	
HERB	2,4,5-TP	ug/kg	Both	Both	0.474	
HERB	2,4-D	ug/kg	Both	Both	4.34	
HERB	2,4-DB	ug/kg	Both	Both	-	Most detects below a large number of NDs; all detects below the maximum ND; use sample RL.
HERB	2,4-DP (Dichloroprop)	ug/kg	Both	Both	1.78	
HERB	Dalapon	ug/kg	Both	Both	-	No detects; use sample RL.
HERB	Dicamba	ug/kg	Both	Both	0.966	
HERB	Dinoseb	ug/kg	Both	Both	-	Only 1 detect; use sample RL.
HERB	MCPA	ug/kg	Both	Both	572	
HERB	MCPP (Mecoprop)	ug/kg	Both	Both	284	
PEST	Aldrin	ug/kg	Both	Both	-	Only 3 detects; use sample RL.
PEST	Alpha BHC	ug/kg	Both	Both	-	Only 3 detects; use sample RL.
PEST	Beta BHC	ug/kg	Both	Both	0.169	
PEST	Chlordane	ug/kg	Both	Both	5.18	
PEST	Delta BHC	ug/kg	Both	Both	0.164	
PEST	Dieldrin	ug/kg	Both	Both	0.166	
PEST	Endosulfan I	ug/kg	Both	Both	0.107	
PEST	Endosulfan II	ug/kg	Both	Both	0.304	
PEST	Endosulfan Sulfate	ug/kg	Both	Both	0.251	
PEST	Endrin	ug/kg	Both	Both	0.207	
PEST	Endrin Aldehyde	ug/kg	Both	Both	0.547	
PEST	Endrin Ketone	ug/kg	Both	Both	0.491	
PEST	Gamma BHC - Lindane	ug/kg	Both	Both	0.0717	
PEST	Heptachlor	ug/kg	Both	Both	0.143	
PEST	Heptachlor Epoxide	ug/kg	Both	Both	0.156	
PEST	Methoxychlor	ug/kg	Both	Both	1.00	
PEST	Mirex	ug/kg	Both	Both	0.398	
PEST	p,p-DDD	ug/kg	Both	Both	0.258	

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Analyte Class	Analyte	Unit	Formation	Topography	USL95	Notes
PEST	p,p-DDE	ug/kg	Both	Non-Drainage	3.85	
PEST	p,p-DDE	ug/kg	Both	Drainage	5.18	
PEST	p,p-DDT	ug/kg	Both	Non-Drainage	4.71	
PEST	p,p-DDT	ug/kg	Both	Drainage	12.1	
PEST	Toxaphene	ug/kg	Both	Both	-	Only 3 detects; use sample RL.
SVOC	1-Methylnaphthalene	ug/kg	Both	Both	-	Only 3 detects; use sample RL.
SVOC	2-Methylnaphthalene	ug/kg	Both	Both	-	Only 4 detects; use sample RL.
SVOC	Acenaphthene	ug/kg	Both	Both	-	No detects; use sample RL.
SVOC	Acenaphthylene	ug/kg	Both	Both	1.14	
SVOC	Anthracene	ug/kg	Both	Both	0.750	
SVOC	Benzo(a)anthracene	ug/kg	Both	Non-Drainage	-	Only 4 detects; use sample RL.
SVOC	Benzo(a)anthracene	ug/kg	Both	Drainage	1.84	
SVOC	Benzo(a)pyrene	ug/kg	Both	Both	2.30	
SVOC	Benzo(b)fluoranthene	ug/kg	Both	Non-Drainage	2.54	
SVOC	Benzo(b)fluoranthene	ug/kg	Both	Drainage	2.61	
SVOC	Benzo(g,h,i)perylene	ug/kg	Both	Non-Drainage	0.867	
SVOC	Benzo(g,h,i)perylene	ug/kg	Both	Drainage	1.85	
SVOC	Benzo(k)fluoranthene	ug/kg	Both	Both	5.29	
SVOC	Bis(2-Ethylhexyl)phthalate	ug/kg	Both	Both	40.6	
SVOC	Butylbenzylphthalate	ug/kg	Both	Both	66.7	
SVOC	Chrysene	ug/kg	Both	Non-Drainage	2.24	
SVOC	Chrysene	ug/kg	Both	Drainage	4.17	
SVOC	Dibenz(a,h)anthracene	ug/kg	Both	Both	1.23	
SVOC	Diethylphthalate	ug/kg	Both	Both	-	Only 1 detect; use sample RL.
SVOC	Dimethylphthalate	ug/kg	Both	Both	-	Only 4 detects; use sample RL.
SVOC	Di-n-butylphthalate	ug/kg	Both	Both	8.49	
SVOC	Di-n-octylphthalate	ug/kg	Both	Both	6.45	
SVOC	Fluoranthene	ug/kg	Both	Non-Drainage	2.35	
SVOC	Fluoranthene	ug/kg	Both	Drainage	2.87	
SVOC	Fluorene	ug/kg	Both	Non-Drainage	1.98	
SVOC	Fluorene	ug/kg	Both	Drainage	2.83	
SVOC	Indeno(1,2,3-cd)pyrene	ug/kg	Both	Both	0.835	
SVOC	Naphthalene	ug/kg	Both	Both	2.39	
SVOC	Phenanthrene	ug/kg	Both	Non-Drainage	1.78	
SVOC	Phenanthrene	ug/kg	Both	Drainage	1.39	
SVOC	Pyrene	ug/kg	Both	Non-Drainage	1.89	
SVOC	Pyrene	ug/kg	Both	Drainage	2.54	
<b>Notes:</b>						
For Formation, "Both" indicates a combined/merged Chatsworth and Santa Susana dataset.						
For Topography, "Both" indicates a combined/merged Non-Drainage and Drainage dataset.						
For USL95, "-" indicates the nonstatistical method is used.						