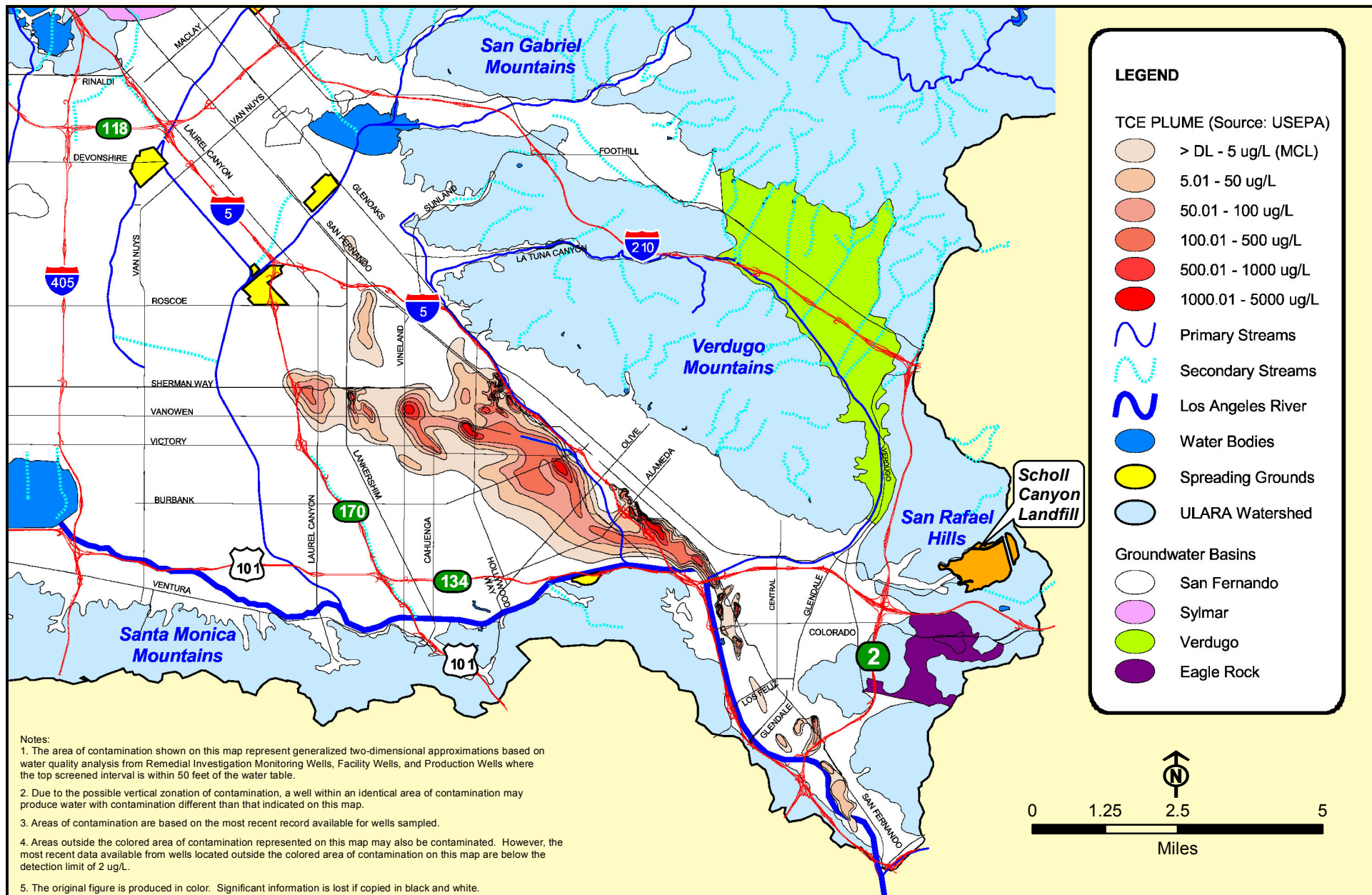


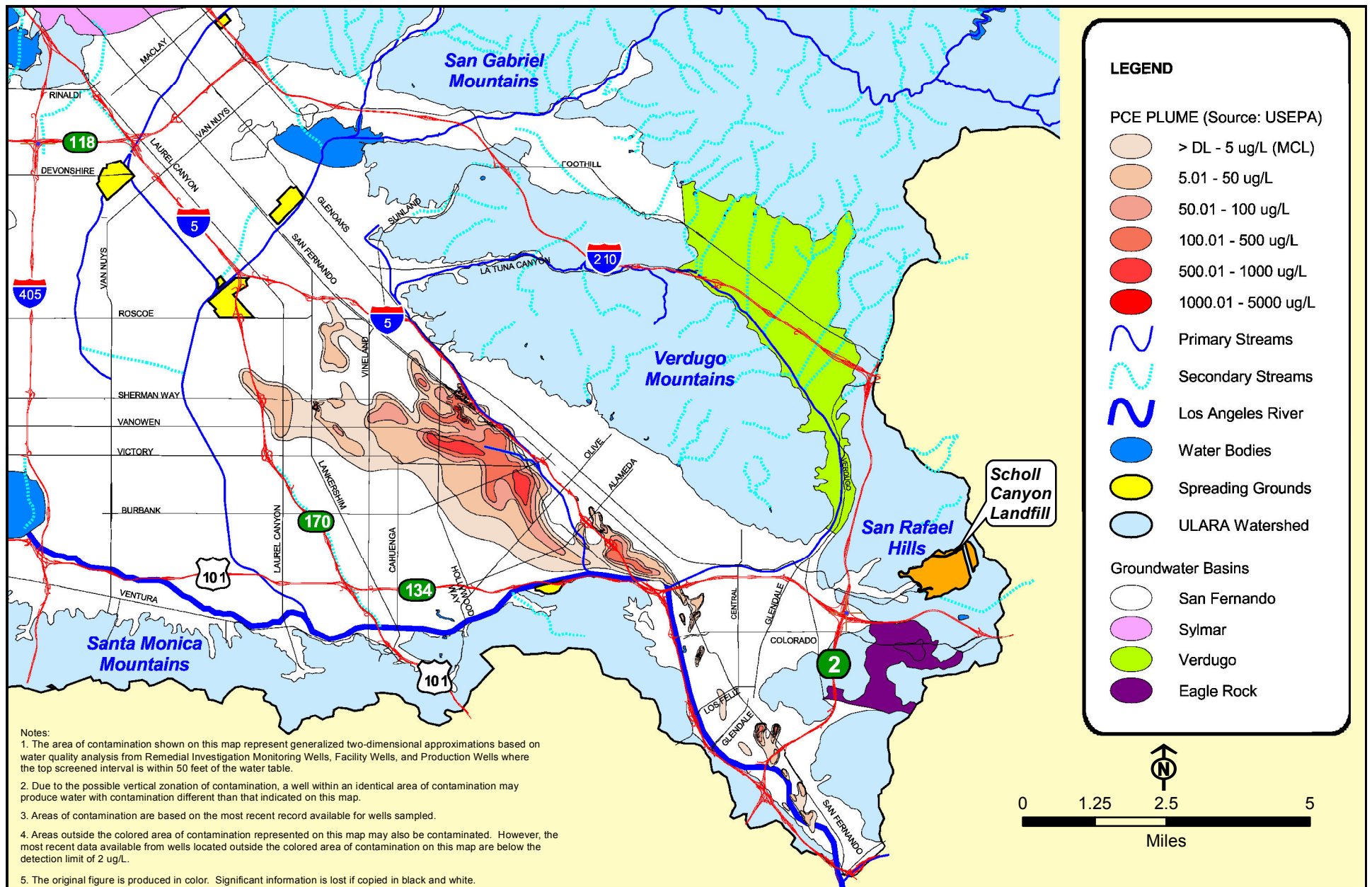
APPENDIX K
WATER QUALITY BACKUP DATA



Source: 2009-10 Water Year ULARA Watermaster Report

Figure 6.9-A-1
Upper Los Angeles River Area: TCE Contamination (ug/L) in 2009
Scholl Canyon Landfill Expansion EIR

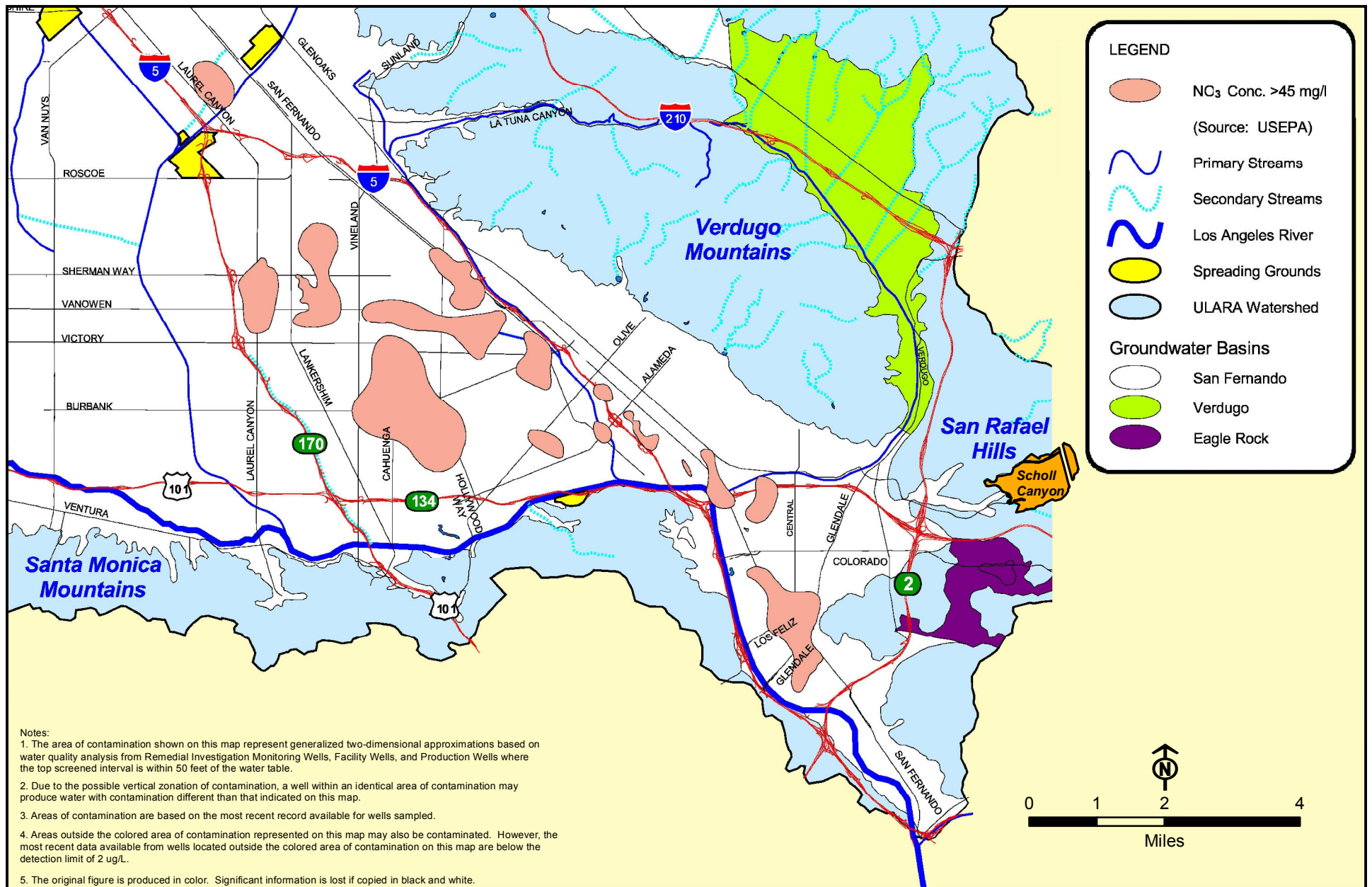
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Source: 2009-10 Water Year ULARA Watermaster Report

Figure 6.9-A-2
Upper Los Angeles River Area: PCE Contamination (ug/L) in 2009
Scholl Canyon Landfill Expansion EIR

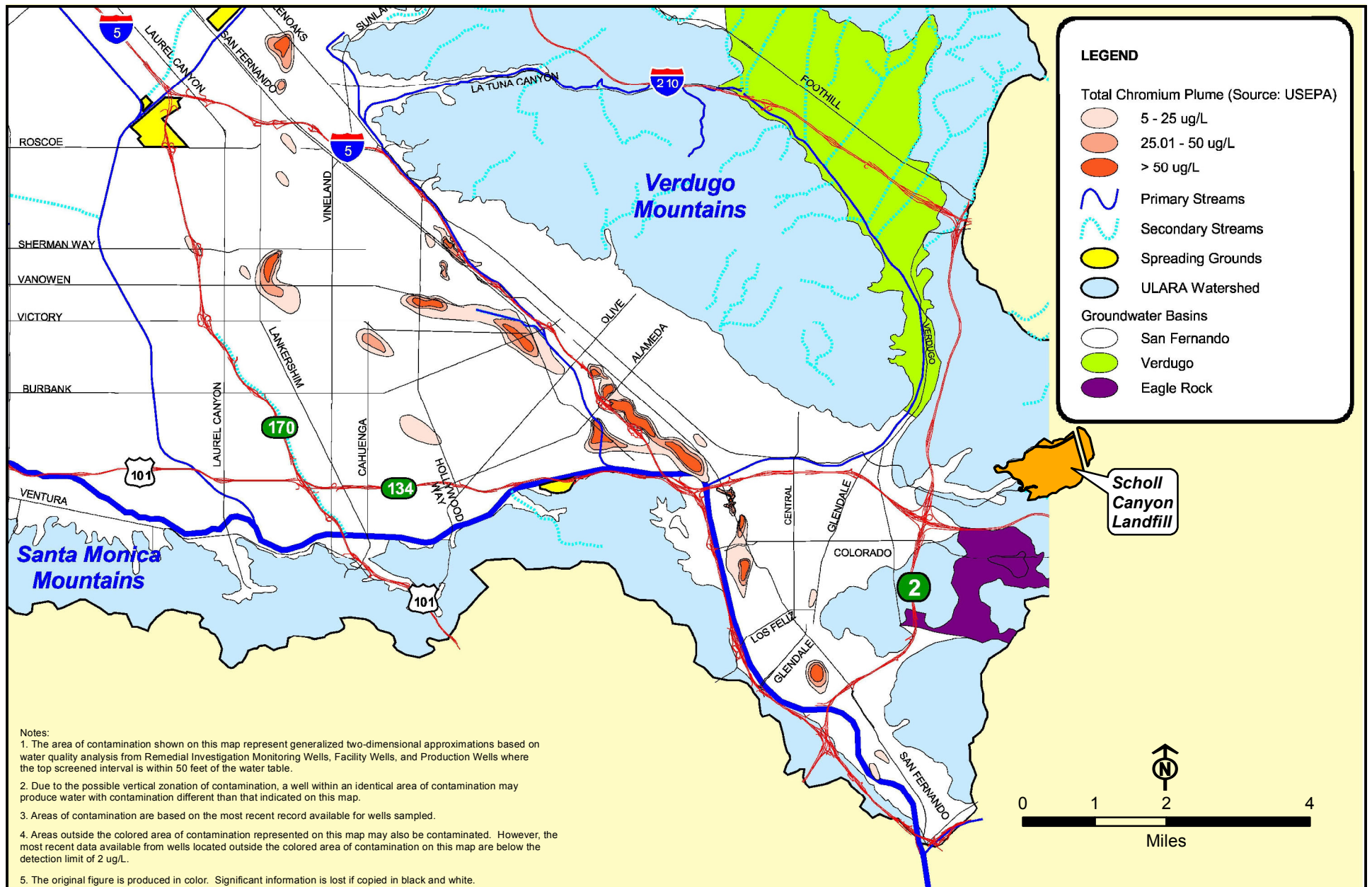
Path: R:\Planning\GIS-Team\SolidWaste\SCLF\projects\SCLF_EIR_WQ_Exhibit_A-2_PCE.mxd



Source: 2009-10 Water Year ULARA Watermaster Report

Figure 6.9-A-3
Upper Los Angeles River Area: NO₃ Contamination (ug/L) in 2009
Scholl Canyon Landfill Expansion EIR

Path: R:\Planning\GIS-Team\SolidWaste\SCLF\projects\SCLF_EIR_WQ_Exhibit_A-3_NO3.mxd



Source: 2009-10 Water Year ULARA Watermaster Report

Figure 6.9-A-4

Upper Los Angeles River Area: Total Dissolved Chromium Contamination (ug/L) in 2009

Scholl Canyon Landfill Expansion EIR

Path: R:\Planning\GIS-Team\SolidWaste\SCLF\projects\SCLF_EIR_WQ_Exhibit_A-4_Chromium.mxd

Table 1
Scholl Canyon Landfill Background Groundwater Quality - Experimental Studies¹

Constituents	Units ²	SOIL EQUILBRIUM STUDY (1984) Range	MINERAL LEACHING STUDY Range	OVERALL BACKGROUND WATER QUALITY Range
pH	s.u.	5.92 - 6.44	5.54 - 7.8	5.54 - 7.8
Conductivity	umhos/cm	86.5 - 321.5	114 - 2220	86.5 - 2220
Total dissolved solids	mg/L	119 - 394	NA ³	119 - 394
Sulfate	mg/L	4.5 - 21	9 - 1300	4.5 - 1300
Chloride	mg/L	3.9 - 19	1 - 53	1 - 53
Total alkalinity	mg/L CaCO ₃	26 - 141	30 - 420	26 - 420
Total hardness	mg/L CaCO ₃	29 - 176	NA	29 - 176
Boron	mg/L	<0.2	0.025 - 0.45	0.025 - 0.45
Soluble COD	mg/L	23 - 224	2 - 47	2 - 224
TOC	mg/L	6.12 - 79.7	0.75 - 20	0.75 - 79.7
Potassium	mg/L	0.3 - 2	0.3 - 6.7	0.3 - 6.7
Sodium	mg/L	5 - 8	13 - 66	5 - 66
Dissolved CO ₂	mg/L	21 - 131	NA	21 - 131
Calcium-hardness	mg/L CaCO ₃	13.2 - 114	2 - 900	2 - 900
Magnesium-hardness	mg/L CaCO ₃	8.9 - 48	3 - 500	3 - 500
Arsenic	mg/L	0.0042 - 0.0068	0.0005 - 0.0056	0.0005 - 0.0068
Cadmium	mg/L	<0.001	0.001 - 0.01	<0.001 - 0.01
Total chromium	mg/L	<0.01	0.003 - 0.005	0.003 - 0.005
Copper	mg/L	0.02 - 0.035	0.01 - 0.02	0.01 - 0.035
Iron	mg/L	NA	0.02 - 0.44	0.02 - 0.44
Lead	mg/L	NA	0.001	0.001
Mercury	mg/L	0.0002 - 0.001	0.0001 - 0.0005	0.0001 - 0.001
Nickel	mg/L	0.01 - 0.02	0.005 - 0.02	0.005 - 0.02
Selenium	mg/L	0.0098 - 0.012	0.0014 - 0.002	0.0014 - 0.012
Silver	mg/L	NA	0.005	0.005
Zinc	mg/L	0.021 - 0.037	0.005 - 0.045	0.005 - 0.045

1. umhos/cm = microhoms per centimeter; s.u. = standard pH units; and mg/L = milligrams per liter.
2. This table is taken from the March 1997 *Amended Report of Waste Discharge - Corrective Action* Program, Scholl Canyon Landfill by the Sanitation Districts (Sanitation Districts, 1997a).
3. NA = not analyzed

Table 2
Scholl Canyon Landfill 2009 Groundwater Quality Monitoring Results Range¹

Consituent	Units ²	Barrier 1												Consituent	Units ²	Downgradient Offsite					
		M02B		M04B		M05A ³		M06B		M08B		M10B				M17A		M18A		M18B	
		No. of Samples	Result Range	No. of Samples	Result Range	No. of Samples	Result Range	No. of Samples	Result Range	No. of Samples	Result Range	No. of Samples	Result Range			No. of Samples	Result Range	No. of Samples	Result Range	No. of Samples	Result Range
DEPTH TO WATER	FEET	4	36.18 - 37.49	4	35.33 - 37.88	3	32.64 - 34.18	4	28.77 - 67.11	4	45.82 - 52.84	3	46.28 - 47.59	DEPTH TO WATER	FEET	2	51.96 - 54.05	4	119.82 - 122.97	4	119.85 - 122.93
DEPTH TO BOTTOM	FEET	4	67.14 - 67.24	4	54.94 - 55.07	3	40.38 - 40.44	4	74.88 - 75.01	4	63.57 - 63.80	3	52.12 - 52.18	DEPTH TO BOTTOM	FEET	2	58.19	4	128.94 - 129.20	4	149.40 - 149.67
FIELD DISSOLVED O2	MG/L	4	0.15 - 0.38	4	0.17 - 0.20	3	0.28 - 0.54	4	0.15 - 0.28	4	0.12 - 0.26	3	0.65 - 4.44	FIELD DISSOLVED O2	MG/L	2	0.89 - 1.12	4	7.70 - 8.63	4	1.04 - 1.57
FIELD CONDUCTIVITY	UMHOS/CM	4	1921 - 2084	4	2043 - 2294	3	3224 - 3922	4	2816 - 3023	4	2334 - 3555	3	1292 - 1372	FIELD CONDUCTIVITY	UMHOS/CM	2	2214 - 2306	4	1522 - 1640	4	1410 - 1457
FIELD PH	S.U.	4	6.29 - 6.64	4	6.35 - 6.61	3	6.35 - 7.48	4	6.23 - 6.47	4	6.29 - 6.48	3	6.28 - 6.61	FIELD PH	S.U.	2	6.27 - 6.59	4	6.95 - 7.26	4	6.79 - 6.90
FIELD WATER TEMPERATURE	DEG.C.	4	19.03 - 23.92	4	20.98 - 24.70	3	23.11 - 27.06	4	19.14 - 27.38	4	22.63 - 24.77	3	20.18 - 24.90	FIELD WATER TEMPERATURE	DEG.C.	2	18.86 - 21.47	4	19.69 - 21.46	4	19.35 - 27.48
AMMONIA NITROGEN	MG/L	7	<0.1 - 0.141	5	<0.1	3	<0.1	6	<0.27 - 0.7	6	0.112 - 0.15	3	<0.1	AMMONIA NITROGEN	MG/L	2	<0.1	6	<0.1	6	<0.1
CONDUCTIVITY	UMHOS/CM	7	1850 - 2000	5	1920 - 2220	3	3280 - 3940	6	2630 - 3640	6	2100 - 3390	3	1270 - 1320	CONDUCTIVITY	UMHOS/CM	2	2120	6	1500 - 1560	6	1360 - 1470
NITRITE NITROGEN	MG/L	7	<0.03	5	0.08 - 0.18	3	<0.03	6	<0.03	6	<0.03	3	<0.03	NITRITE NITROGEN	MG/L	2	<0.03	6	<0.03	6	<0.03
PH	S.U.	7	6.68 - 6.88	5	6.56 - 6.94	3	6.49 - 6.74	6	6.49 - 6.86	6	6.62 - 6.84	3	6.73 - 7.01	PH	S.U.	2	6.66 - 7.04	6	7.02 - 7.56	6	6.55 - 7.06
TOTAL ALKALINITY	MG/L	7	616 - 644	5	693 - 747	3	896 - 1080	6	788 - 967	6	674 - 863	3	368 - 383	TOTAL ALKALINITY	MG/L	2	451 - 469	6	259 - 270	6	345 - 350
TOTAL DISSOLVED SOLIDS	MG/L	7	1172 - 1310	5	1140 - 1424	3	1912 - 2723	6	1618 - 2376	6	1364 - 2492	3	816 - 848	TOTAL DISSOLVED SOLIDS	MG/L	2	1326 - 1368	6	966 - 1080	6	872 - 930
TOTAL HARDNESS	MG/L	7	801 - 874	5	871 - 1000	3	1360 - 1570	6	1170 - 1560	6	974 - 1490	3	624 - 641	TOTAL HARDNESS	MG/L	2	935 - 950	6	682 - 744	6	668 - 706
BICARBONATE ALKALINITY	MG/L	7	616 - 644	5	693 - 747	3	896 - 1080	6	788 - 967	6	674 - 863	3	368 - 383	BICARBONATE ALKALINITY	MG/L	2	451 - 469	6	259 - 270	6	345 - 350
CHLORIDE	MG/L	7	244 - 261	5	232 - 313	3	591 - 759	6	432 - 700	6	308 - 674	3	128 - 132	CHLORIDE	MG/L	2	342 - 345	6	177 - 199	6	149 - 157
NITRATE NITROGEN	MG/L	7	<0.2	5	<0.2 - 0.51	3	<0.2	6	<0.2	6	<0.2	3	1.01 - 1.24	NITRATE NITROGEN	MG/L	2	<0.2	6	3.94 - 4.47	6	3.36 - 3.93
SULFATE	MG/L	7	74.5 - 78.2	5	52.9 - 68.2	3	7.1 - 31.9	6	6.9 - 51.6	6	23.7 - 80.9	3	142 - 151	SULFATE	MG/L	2	168 - 202	6	245 - 257	6	174 - 184
CALCIUM-HARDNESS	MG/L	7	419 - 458	5	447 - 524	3	724 - 891	6	607 - 836	6	509 - 804	3	332 - 336	CALCIUM-HARDNESS	MG/L	2	507 - 514	6	380 - 423	6	392 - 427
MAGNESIUM-HARDNESS	MG/L	7	382 - 416	5	424 - 478	3	630 - 761	6	560 - 724	6	465 - 687	3	292 - 309	MAGNESIUM-HARDNESS	MG/L	2	428 - 436	6	302 - 321	6	270 - 284
POTASSIUM	MG/L	7	6 - 6.1	5	4 - 5.2	3	10.1 - 15.4	6	10 - 14	6	9 - 12	3	<80.0 - 13	POTASSIUM	MG/L	2	6	6	<4	6	<4
SODIUM	MG/L	7	123 - 140	5	115 - 146	3	198 - 247	6	165 - 222	6	137 - 212	3	61 - 76	SODIUM	MG/L	2	110 - 113	6	64 - 65.6	6	62 - 65
TOTAL COD	MG/L	7	26 - 38	5	23 - 30.7	3	141 - 231	6	85 - 207	6	44 - 133	3	<25 - 17	TOTAL COD	MG/L	2	22 - 26	6	<10 - 25	6	<10 - <25.0
TOTAL ORGANIC CARBON	MG/L	7	9.16 - 11.8	5	9.4 - 10.7	3	45.5 - 74	6	28.8 - 58.6	6	16.4 - 42.5	3	2.26 - 2.44	TOTAL ORGANIC CARBON	MG/L	2	6.64 - 7.75	6	1.60 - 1.74	6	1.54 - 1.97
1,1,1,2-TETRACHLOROETHANE	UG/L	7	<0.5	5	<0.5	3	<2.5 - <5	6	<0.5 - <2.5	6	<0.5 - <5	3	<0.5	1,1,1,2-TETRACHLOROETHANE	UG/L	2	<0.5	6	<0.5	6	<0.5
1,1,1-TRICHLOROETHANE	UG/L	7	<0.5	5	<0.5	3	<2.5 - <5	6	<0.5 - <2.5	6	<0.5 - <5	3	<0.5	1,1,1-TRICHLOROETHANE	UG/L	2	<0.5	6	<0.5	6	<0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	7	<0.5	5	<0.5	3	<2.5 - <5	6	<0.5 - <2.5	6	<0.5 - <5	3	<0.5	1,1,2,2-TETRACHLOROETHANE	UG/L	2	<0.5	6	<0.5	6	<0.5
1,1,2-TRICHLOROETHANE	UG/L	7	<0.5	5	<0.5	3	<2.5 - <5	6	<0.5 - <2.5	6	<0.5 - <5	3	<0.5	1,1,2-TRICHLOROETHANE	UG/L	2	<0.5	6	<0.5	6	<0.5
1,1-DICHLOROETHANE	UG/L	7	1 - 1.2	5	0.86 - 2	3	<2.5 - <5	6	<0.5 - <2.5	6	<0.5 - 0.7	3	0.74 - 0.99	1,1-DICHLOROETHANE	UG/L	2	<0.5	6	<0.5	6	<0.5
1,1-DICHLOROETHENE	UG/L	7	<0.5	5	<0.5	3	<2.5 - <5	6	<0.5 - <2.5	6	<0.5 - <5	3	<0.5	1,1-DICHLOROETHENE	UG/L	2	<0.5	6	<0.5	6	<0.5
1,2,3-TRICHLOROPROPANE	UG/L	7	<1	5	<1	3	<5 - <10	6	<1 - <5	6	<1 - <10	3	<1	1,2,3-TRICHLOROPROPANE	UG/L	2	<1	6	<1	6	<1
1,2-DIBROMO-3-CHLOROPROPANE	UG/L	7	<0.01	5	<0.01	3	<0.01	6	<0.01	6	<0.01	3	<0.01	1,2-DIBROMO-3-CHLOROPROPANE	UG/L	2	<0.01	6	<0.01	6	<0.010 - <0.10
1,2-DIBROMOETHANE	UG/L	7	<0.01	5	<0.01	3	<0.01	6	<0.01	6	<0.01	3	<0.01	1,2-DIBROMOETHANE	UG/L	2	<0.01	6	<0.01	6	<0.010 - <0.10
O-DICHLOROENZENE	UG/L	7	0.72 - 0.9	5	1 - 2.7	3	<2.5 - <5	6	<0.5 - 3	6	<0.5 - 2	3	<0.5	O-DICHLOROENZENE	UG/L	2	<0.5	6	<0.5	6	<0.5
1,2-DICHLOROETHANE	UG/L	7	<0.5	5	<0.5	3	<2.5 - <5	6	<0.5 - <2.5	6	<0.5 - <5	3	<0.5	1,2-DICHLOROETHANE	UG/L	2	<0.5	6	<0.5	6	<0.5
1,2-DICHLOROPROPANE	UG/L	7	<0.5	5	<0.5	3	<2.5 - <5	6	<0.5 - <2.5	6	<0.5 - <5	3	<0.5	1,2-DICHLOROPROPANE	UG/L	2	<0.5	6	<0.5	6	<0.5
P-DICHLOROENZENE	UG/L	7	2.6 - 3	5	4 - 11.3	3	14 - 31														

Table 2
Scholl Canyon Landfill 2009 Groundwater Quality Monitoring Results Range¹

Consituent	Units ²	Barrier 1												Consituent	Units ²	Downgradient Offsite					
		M02B		M04B		M05A ³		M06B		M08B		M10B				M17A		M18A		M18B	
		No. of Samples	Result Range	No. of Samples	Result Range	No. of Samples	Result Range	No. of Samples	Result Range	No. of Samples	Result Range	No. of Samples	Result Range			No. of Samples	Result Range	No. of Samples	Result Range	No. of Samples	Result Range
METHYLENE CHLORIDE	UG/L	7	<0.5	5	<0.5	3	<2.5 - 8	6	<0.5 - <2.5	6	<0.5 - <5	3	<0.5	METHYLENE CHLORIDE	UG/L	2	<0.5	6	<0.5	6	<0.5
O-XYLENE	UG/L	7	<0.5	5	<0.5	3	<2.5 - <5	6	<0.5 - <2.5	6	<0.5 - <5	3	<0.5	O-XYLENE	UG/L	2	<0.5	6	<0.5 - 0.8	6	<0.5
STYRENE	UG/L	7	<1	5	<1	3	<5 - <10	6	<1 - <5	6	<1 - <10	3	<1	STYRENE	UG/L	2	<1	6	<1	6	<1
TETRACHLOROETHYLENE	UG/L	7	<0.5	5	<0.5 - 7	3	<2.5 - <5	6	<0.5 - <2.5	6	<0.5 - <5	3	0.8 - 1.7	TETRACHLOROETHYLENE	UG/L	2	<0.5	6	<0.5	6	<0.5
TOLUENE	UG/L	7	<0.5	5	<0.5	3	<2.5 - <5	6	<0.5 - <2.5	6	<0.5 - <5	3	<0.5	TOLUENE	UG/L	2	<0.5	6	<0.5 - 4.6	6	<0.5
TRANS-1,2-DICHLOROETHYLENE	UG/L	7	<0.5	5	<0.5	3	<2.5 - <5	6	<0.5 - <2.5	6	<0.5 - <5	3	<0.5	TRANS-1,2-DICHLOROETHYLENE	UG/L	2	<0.5	6	<0.5	6	<0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	7	<0.5	5	<0.5	3	<2.5 - <5	6	<0.5 - <2.5	6	<0.5 - <5	3	<0.5	TRANS-1,3-DICHLOROPROPENE	UG/L	2	<0.5	6	<0.5	6	<0.5
T-1,4-DICHLORO-2-BUTENE	UG/L	7	<1	5	<1	3	<5 - <10	6	<1 - <5	6	<1 - <10	3	<1	T-1,4-DICHLORO-2-BUTENE	UG/L	2	<1	6	<1	6	<1
TRICHLOROETHYLENE	UG/L	7	4 - 6	5	0.62 - 5	3	<2.5 - <5	6	<0.5 - <2.5	6	<0.5 - 0.8	3	3 - 4	TRICHLOROETHYLENE	UG/L	2	<0.5	6	<0.5	6	<0.5
FREON 11 (CCL3F)	UG/L	7	<1	5	<1	3	<5 - <10	6	<1 - <5	6	<1 - <10	3	<1	FREON 11 (CCL3F)	UG/L	2	<1	6	<1	6	<1
VINYL ACETATE	UG/L	7	<2	5	<2	3	<10 - <20	6	<2 - <10	6	<20	3	<2	VINYL ACETATE	UG/L	2	<2	6	<2	6	<2
VINYL CHLORIDE	UG/L	7	<0.5	5	<0.5 - 1.3	3	<2.5 - <5	6	<0.5 - 0.57	6	<0.5 - 1	3	<0.5	VINYL CHLORIDE	UG/L	2	<0.5	6	<0.5	6	<0.5
1,4-DIOXANE	UG/L	7	27.6 - 31.1	5	27.3 - 36.4	3	86 - 130	6	72.3 - 121	6	79.6 - 122	3	4.4 - 5.5	1,4-DIOXANE	UG/L	2	12.9 - 13.8	6	<2 - 2.7	6	<2 - 3.8

1. Sample locations shown on Exhibits 4, 6, and 7.
2. Deg.C. = degrees Celsius; µmhos/cm = microhoms per centimeter; s.u. = standard pH units; mg/L = milligrams per liter; and µg/L :
3. Monitoring well M05A was last sampled in 2005 because of low groundwater levels.
This table gives the 2005 result range for monitoring well M05A.

Table 3
Scholl Canyon Landfill Constituents of Concern

Field Parameters

Turbidity (Field)

General Parameters

Boron
Conductivity
Cyanide, Total
Fluoride
MBAS
Nitrite as Nitrogen
pH
Total Alkalinity
Residue, Filterable (TDS)
Total Hardness as CaCO₃

Anions

Bicarbonate Alkalinity
Carbonate Alkalinity
Chloride
Hydroxide Alkalinity
Nitrate as Nitrogen
Sulfate
Sulfide

Cations

Calcium Hardness as CaCO₃
Hexavalent Chromium (dissolved)
Iron
Magnesium Hardness as CaCO₃
Potassium
Sodium

Organics

Oil and Grease
BOD
COD
Total Organic Carbon
Total Organic Halogens

Metals

Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Cobalt
Copper

Iron
Lead
Mercury
Nickel
Selenium
Silver
Thallium
Tin
Vanadium
Zinc

Volatile Organic Compounds
1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,1-Dichloropropene
1,2,3-Trichloropropane
1,2-Dibromo-3-chloropropane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichloropropane
1,4-Dichlorobenzene
2,2-Dichloropropane
2-Hexanone
Acetone
Acetonitrile
Acrolein
Acrylonitrile
Allyl Chloride
Benzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon Disulfide
Carbon Tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
Chloroprene
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene

Dichlorodifluoromethane
Dibromochloromethane
Dibromomethane
Ethylbenzene
Ethyl methacrylate
Isobutyl alcohol
1,3-Dichlorobenzene
m+p-Xylenes
Methacrylonitrile
Methyl ethyl ketone (MEK)
Methyl Iodide
Methyl Isobutyl Ketone (MIBK)
Methyl methacrylate
Methylene Chloride
o-Xylene
Propionitrile
Styrene
Tetrachloroethene
Toluene
trans-1,4-Dichloro-2-butene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Trichlorofluoromethane
Vinyl Acetate
Vinyl Chloride

Pesticides

2,4,5-T
2,4,5-TP (Silvex)
2,4'-D
p,p'-DDD
p,p'-DDE
p,p'-DDT
Aldrin
alpha-BHC
Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
beta-BHC
delta-BHC
Dieldrin
Dimethoate
Dinoseb

Disulfoton
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Parathion
gamma-BHC (Lindane)
Heptachlor
Heptachlor epoxide (Isomer B)
Methoxychlor
Methyl parathion
Phorate
Technical Chlordane
Thionazine (Zinophos)
Toxaphene

Semivolatile Organic Compounds

0,0,0-Triethylphosphorothioate
1,2,4,5-Tetrachlorobenzene
1,2,4-Trichlorobenzene
1,4-Naphthoquinone
1-Naphthylamine
2,3,4,6-Tetrachlorophenol
2,3,7,8-TCDD
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dichlorophenol
2,6-Dinitrotoluene
2-Acetylaminofluorene
2-Chloronaphthalene
2-Chlorophenol
4,6-Dinitro-2-methylphenol
2-Methylnaphthalene
2-Naphthylamine
3,3'-Dichlorobenzidine
3,3'-Dimethylbenzidine
3-Methylcholanthrene
4-Aminobiphenyl
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
4-Chlorophenyl phenyl ether
5-Nitro-o-toluidine
7,12-Dimethylbenz[a]anthracene

Table 3
Scholl Canyon Landfill Constituents of Concern

a,a-Dimethylphenethylamine
Acenaphthene
Acenaphthylene
Acetophenone
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Benzyl alcohol
bis(2-Chloroisopropyl)ether
Bis(2-Chloroethoxy)methane
Bis(2-Chloroethyl)ether
bis(2-Ethylhexyl)phthalate
Butyl benzyl phthalate
Chlorobenzilate
Chrysene
Di-n-butyl phthalate
Di-n-octyl phthalate
Diallate (Avadex)
Dibenzo(a,h)anthracene
Dibenzofuran
Diethyl phthalate
Dimethyl phthalate
Diphenylamine
Ethyl methanesulfonate
Famphur
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Hexachloropropene
Indeno(1,2,3-cd)pyrene
Isodrin
Isophorone
Isosafrole
Kepone
m,p-Cresol
1,3-Dinitrobenzene
3-Nitroaniline
Methapyrilene
Methyl methanesulfonate
N-Nitrosodi-n-butylamine
N-Nitroso-n-propylamine
N-Nitrosodiethylamine
N-Nitrosodimethylamine
N-Nitrosodiphenylamine
N-Nitrosomethylethylamine
N-Nitrosopiperidine
N-Nitrosopyrrolidine
Naphthalene
Nitrobenzene
o-Cresol
2-Nitroaniline
2-Nitrophenol
o-Toluidine
p-(Dimethylamino)azobenzene
4-Chloroaniline
4-Nitroaniline
4-Nitrophenol
p-Phenylenediamine
Pentachlorobenzene
Pentachloronitrobenzene
Pentachlorophenol
Phenacetin
Phenanthrene
Phenol
Pronamide
Pyrene
Safrole
1,3,5-Trinitrobenzene

Table 4
Scholl Canyon Landfill 2009 Surface Runoff Water Quality Data Monitoring Results

Constituent	Units ¹	Sample Identification ²	
		SD05 12/7/09	SD05 2/5/10
General Parameters			
Conductivity	µmhos/cm	490	500
Cyanide, Total	mg/L	<0.050	<0.050
pH	s.u.	6.68	6.54
Total Suspended Solids	mg/L	418	392
Anions			
Nitrate as Nitrogen	mg/L	2.8	0.80
Total Kjeldahl Nitrogen	mg/L	5.3	3.2
Cations			
Iron	mg/L	21.2	18.9
Iron, Soluble	mg/L	<0.100	<0.100
Organics			
Oil and Grease	mg/L	2.7	<1.0
COD	mg/L	250	81
Total Organic Carbon	mg/L	43	19
Metals			
Antimony	mg/L	<0.0150	<0.0150
Antimony, Soluble	mg/L	<0.0150	<0.0150
Arsenic	mg/L	<0.0150	<0.0150
Arsenic, Soluble	mg/L	<0.0150	<0.0150
Barium	mg/L	0.405	0.671
Barium, Soluble	mg/L	0.0614	0.0322
Beryllium	mg/L	<0.0100	<0.0100
Beryllium, Soluble	mg/L	<0.0100	<0.0100
Cadmium	mg/L	<0.0100	<0.0100
Cadmium, Soluble	mg/L	<0.0100	<0.0100
Chromium	mg/L	0.0177	0.0154
Chromium, Soluble	mg/L	<0.0100	<0.0100
Cobalt	mg/L	0.0140	0.0119
Cobalt, Soluble	mg/L	<0.0100	<0.0100
Copper	mg/L	0.0412	0.0314
Copper, Soluble	mg/L	0.0116	<0.0100
Lead	mg/L	0.0450	0.0291
Lead, Soluble	mg/L	<0.0100	<0.0100
Mercury	mg/L	<0.000500	<0.000500
Mercury, Soluble	mg/L	<0.000500	<0.000500
Nickel	mg/L	0.0216	0.0171
Nickel, Soluble	mg/L	<0.0100	<0.0100
Selenium	mg/L	<0.0150	<0.0150
Selenium, Soluble	mg/L	<0.0150	<0.0150
Tin	mg/L	<0.0500	<0.0500
Tin, Soluble	mg/L	<0.0500	<0.0500
Vanadium	mg/L	0.0541	0.0431
Vanadium, Soluble	mg/L	<0.0100	<0.0100
Zinc	mg/L	0.177	0.427
Zinc, Soluble	mg/L	0.0638	<0.0100

<i>Volatile Organic Compounds</i>			
1,1,1-Trichloroethane	µg/L	<1.0	<1.0
1,1,2,2-Tetrachloroethane	µg/L	<1.0	<1.0
1,1,2-Trichloroethane	µg/L	<1.0	<1.0
1,1-Dichloroethane	µg/L	<1.0	<1.0
1,1-Dichloroethene	µg/L	<1.0	<1.0
1,2-Dichlorobenzene	µg/L	<1.0	<1.0
1,2-Dichloroethane	µg/L	<0.50	<0.50
1,2-Dichloropropane	µg/L	<1.0	<1.0
1,3-Dichlorobenzene	µg/L	<1.0	<1.0
1,4-Dichlorobenzene	µg/L	<1.0	<1.0
2-Chloroethylvinyl ether	µg/L	<50	<50
Benzene	µg/L	<0.50	<0.50
Bromodichloromethane	µg/L	<1.0	<1.0
Bromoform	µg/L	<1.0	<1.0
Bromomethane	µg/L	<1.0	<1.0
Carbon Tetrachloride	µg/L	<0.50	<0.50
Chlorobenzene	µg/L	<1.0	<1.0
Chloroethane	µg/L	<1.0	<1.0
Chloroform	µg/L	<1.0	<1.0
Chloromethane	µg/L	<1.0	<1.0
cis-1,3-Dichloropropene	µg/L	<0.50	<0.50
Dibromochloromethane	µg/L	<1.0	<1.0
Ethylbenzene	µg/L	<1.0	<1.0
Methylene Chloride	µg/L	<10	<10
Tetrachloroethene	µg/L	<1.0	<1.0
Toluene	µg/L	<1.0	<1.0
trans-1,2-Dichloroethene	µg/L	<1.0	<1.0
trans-1,3-Dichloropropene	µg/L	<0.50	<0.50
Trichloroethene	µg/L	<1.0	<1.0
Vinyl Chloride	µg/L	<0.50	<0.50

1. µmhos/cm = microhoms per centimeter; s.u. = standard pH units;
mg/L = milligrams per liter; and µg/L = micrograms per liter.
2. Sample location shown on Exhibit 4. Dates reflect when sample collected.
Constituents that are not detected are denoted as being less than (<) their reporting limit.

Table 5
Scholl Canyon Landfill 2009 Industrial Wastewater Monitoring Results Range

Constituent	Units	IW1		IW2	
		No. of Samples	Result Range	No. of Samples	Result Range
TOTAL CYANIDE	UG/L	4	<5.0	4	<5.0
CN AMENABLE TO CHLORINE	UG/L	4	<5.0	4	<5.0
FLASH POINT	DEG. F.	4	>200	4	>200
PH	S.U.	4	6.96 - 7.52	4	6.61 - 7.19
SUSPENDED SOLIDS	MG/L	4	7 - 47	4	17 - 60
CHLORIDE	MG/L	4	43 - 80	4	710 - 750
DISSOLVED SULFIDES	MG/L	4	<0.10	4	<0.10
OIL & GREASE	MG/L	4	<5.0	4	<5.0
TOTAL BOD	MG/L	4	740 - 1400	4	4.8 - 11
TOTAL COD	MG/L	4	910 - 1900	4	210 - 240
ARSENIC	MG/L	4	0.021 - 0.069	4	<0.010 - 0.027
CADMIUM	MG/L	4	<0.0020 - 0.0064	4	<0.0020 - 0.0072
TOTAL CHROMIUM	MG/L	4	<0.0050 - <0.010	4	<0.0050 - <0.010
COPPER	MG/L	4	0.015 - 0.027	4	0.012 - 0.047
LEAD	MG/L	4	<0.0050 - 0.027	4	<0.0050 - <0.010
NICKEL	MG/L	4	<0.0050 - <0.010	4	<0.0050 - 0.015
SILVER	MG/L	4	<0.0020 - <0.0040	4	<0.0020 - <0.0040
ZINC	MG/L	3	<0.10 - 0.079	3	<0.050 - <0.10
1,1,1-TRICHLOROETHANE	UG/L	4	<1.0	4	<1.0
1,1,2,2-TETRACHLOROETHANE	UG/L	4	<1.0	4	<1.0
1,1,2-TRICHLOROETHANE	UG/L	4	<1.0	4	<1.0
1,1-DICHLOROETHANE	UG/L	4	1.9 - 3.2	4	<1.0
1,1-DICHLOROETHENE	UG/L	4	<1.0	4	<1.0
O-DICHLOROBENZENE	UG/L	4	<1.0	4	2.1 - 2.6
1,2-DICHLOROETHANE	UG/L	4	<1.0	4	<1.0
1,2-DICHLOROPROPANE	UG/L	4	<1.0	4	<1.0
P-DICHLOROBENZENE	UG/L	4	<1.0 - 1.5	4	16 - 21
2-CHLOROETHYL VINYLETHER	UG/L	4	<5.0	4	<5.0
ACROLEIN	UG/L	4	<5.0	4	<5.0
ACRYLONITRILE	UG/L	4	<2.0	4	<2.0
BENZENE	UG/L	4	<1.0	4	1.8 - 2.4
BROMODICHLOROMETHANE	UG/L	4	<1.0	4	<1.0
BROMOFORM	UG/L	4	<1.0	4	<1.0
BROMOMETHANE	UG/L	4	<1.0	4	<1.0
CARBON TETRACHLORIDE	UG/L	4	<1.0	4	<1.0
CHLOROBENZENE	UG/L	4	<1.0	4	8.4 - 9.8
CHLOROETHANE	UG/L	4	<1.0 - 2.2	4	<1.0
CHLOROFORM	UG/L	4	<1.0 - 1.2	4	<1.0
CHLOROMETHANE	UG/L	4	<1.0 - 7.2	4	<1.0
CIS-1,3-DICHLOROPROPENE	UG/L	4	<1.0	4	<1.0
DIBROMOCHLOROMETHANE	UG/L	4	<1.0	4	<1.0
ETHYL BENZENE	UG/L	4	<1.0	4	<1.0
M-DICHLOROBENZENE	UG/L	4	<1.0	4	<1.0
METHYLENE CHLORIDE	UG/L	4	<1.0	4	<1.0
TETRACHLOROETHYLENE	UG/L	4	<1.0	4	<1.0
TOLUENE	UG/L	4	<1.0	4	<1.0
TRANS-1,2-DICHLOROETHYLENE	UG/L	4	<1.0	4	<1.0
TRANS-1,3-DICHLOROPROPENE	UG/L	4	<1.0	4	<1.0
TRICHLOROETHYLENE	UG/L	4	<1.0	4	<1.0
VINYL CHLORIDE	UG/L	4	<1.0	4	<1.0 - 1.0
AROCLOR 1016	UG/L	4	<1.0	4	<1.0
AROCLOR 1221	UG/L	4	<1.0	4	<1.0
AROCLOR 1232	UG/L	4	<1.0	4	<1.0
AROCLOR 1242	UG/L	4	<1.0	4	<1.0
AROCLOR 1248	UG/L	4	<1.0	4	<1.0
AROCLOR 1254	UG/L	4	<1.0	4	<1.0
AROCLOR 1260	UG/L	4	<1.0	4	<1.0
PP'-DDD	UG/L	4	<0.050	4	<0.050
PP'-DDE	UG/L	4	<0.050	4	<0.050
PP'-DDT	UG/L	4	<0.050	4	<0.050
ALDRIN	UG/L	4	<0.050	4	<0.050

Table 5

Scholl Canyon Landfill 2009 Industrial Wastewater Monitoring Results Range

Constituent	Units	IW1		IW2	
		No. of Samples	Result Range	No. of Samples	Result Range
ALPHA-BHC	UG/L	4	<0.050	4	<0.050
BETA-BHC	UG/L	4	<0.050	4	<0.050
DELTA-BHC	UG/L	4	<0.050	4	<0.050
DIELDRIN	UG/L	4	<0.050	4	<0.050
ENDOSULFAN I	UG/L	4	<0.050	4	<0.050
ENDOSULFAN II	UG/L	4	<0.050	4	<0.050
ENDOSULFAN SULFATE	UG/L	4	<0.050	4	<0.050
ENDRIN	UG/L	4	<0.050	4	<0.050
ENDRIN ALDEHYDE	UG/L	4	<0.050	4	<0.050
LINDANE (GAMMA-BHC)	UG/L	4	<0.050	4	<0.050
HEPTACHLOR	UG/L	4	<0.050	4	<0.050
HEPTACHLOR EPOXIDE	UG/L	4	<0.050	4	<0.050
TECHNICAL CHLORDANE	UG/L	4	<0.50	4	<0.50
TOXAPHENE	UG/L	4	<2.0	4	<2.0
1,2,4-TRICHLOROBENZENE	UG/L	4	<5.0 - <100	4	<5.0
1,2-DIPHENYLHYDRAZINE	UG/L	3	<5.0 - <100	3	<5.0
2,3,7,8-TCDD	PG/L	4	<0.55 - <0.93	4	<0.53 - <0.58
2,4,6-TRICHLOROPHENOL	UG/L	4	<10 - <200	4	<10
2,4-DICHLOROPHENOL	UG/L	3	<5.0 - <100	3	<5.0
2,4-DIMETHYLPHENOL	UG/L	3	<5.0 - <100	3	<5.0
2,4-DINITROPHENOL	UG/L	4	<20 - <400	4	<20
2,4-DINITROTOLUENE	UG/L	3	<5.0 - <100	3	<5.0
2,6-DINITROTOLUENE	UG/L	3	<5.0 - <100	3	<5.0
2-CHLORONAPHTHALENE	UG/L	4	<5.0 - <100	4	<5.0
2-CHLOROPHENOL	UG/L	2	<5.0 - <100	2	<5.0
2-METHYL-4,6DINITROPHENOL	UG/L	3	<10 - <200	3	<10
3,3'-DICHLOROBENZIDINE	UG/L	4	<5.0 - <100	4	<5.0
4-BROMOPHENYL PHENYLETHER	UG/L	4	<5.0 - <100	4	<5.0
4-CHLORO-3-METHYLPHENOL	UG/L	4	<5.0 - <100	4	<5.0
4-CHLOROPHENYLPHENYLETHER	UG/L	4	<5.0 - <100	4	<5.0
ACENAPHTHENE	UG/L	4	<5.0 - <100	4	<5.0
ACENAPHTHYLENE	UG/L	4	<5.0 - <100	4	<5.0
ANTHRACENE	UG/L	3	<5.0 - <100	3	<5.0
BENZIDINE	UG/L	3	<5.0 - <100	3	<5.0
BENZO(A)ANTHRACENE	UG/L	4	<5.0 - <100	4	<5.0
BENZO(A)PYRENE	UG/L	4	<5.0 - <100	4	<5.0
BENZO(B)FLUORANTHENE	UG/L	4	<5.0 - <100	4	<5.0
BENZO(G,H,I)PERYLENE	UG/L	4	<5.0 - <100	4	<5.0
BENZO(K)FLUORANTHENE	UG/L	4	<5.0 - <100	4	<5.0
BIS(2-CL-ISOPROPYL)ETHER	UG/L	4	<5.0 - <100	4	<5.0
BIS(2-CL-ETHOXY)METHANE	UG/L	3	<5.0 - <100	3	<5.0
BIS(2-CHLOROETHYL)ETHER	UG/L	3	<5.0 - <100	3	<5.0
DIETHYLHEXYL PHTHALATE	UG/L	4	<5.0 - 9.3	4	<5.0 - 41
BUTYLBENZYL PHTHALATE	UG/L	4	<5.0 - <100	4	<5.0
CHRYSENE	UG/L	4	<5.0 - <100	4	<5.0
DI-N-BUTYL PHTHALATE	UG/L	4	<5.0 - 5.1	4	<5.0
DI-N-OCTYL PHTHALATE	UG/L	4	<5.0 - <100	4	<5.0
DIBENZO(A,H)ANTHRACENE	UG/L	4	<5.0 - <100	4	<5.0
DIETHYL PHTHALATE	UG/L	4	<50 - 23	4	<5.0
DIMETHYL PHTHALATE	UG/L	4	<5.0 - <100	4	<5.0
FLUORANTHENE	UG/L	3	<5.0 - <100	3	<5.0
FLUORENE	UG/L	4	<5.0 - <100	4	<5.0
HEXACHLOROBENZENE	UG/L	4	<5.0 - <100	4	<5.0
HEXACHLOROBUTADIENE	UG/L	4	<5.0 - <100	4	<5.0
HEXACHLOROCYCLOPENTADIENE	UG/L	3	<10 - <200	3	<10
HEXACHLOROETHANE	UG/L	4	<5.0 - <100	4	<5.0
INDENO(1,2,3-C,D)PYRENE	UG/L	4	<5.0 - <100	4	<5.0
ISOPHORONE	UG/L	3	<50 - <100	3	<5.0
N-NITROSODI-N-PROPYLAMINE	UG/L	4	<5.0 - <100	4	<5.0
N-NITROSODIMETHYLAMINE	UG/L	4	<5.0 - <100	4	<5.0
N-NITROSODIPHENYLAMINE	UG/L	4	<5.0 - <100	4	<5.0

Table 5

Scholl Canyon Landfill 2009 Industrial Wastewater Monitoring Results Range

Constituent	Units	IW1		IW2	
		No. of Samples	Result Range	No. of Samples	Result Range
NAPHTHALENE	UG/L	3	<5.0 - 5.8	3	<5.0
NITROBENZENE	UG/L	4	<5.0 - <100	4	<5.0
2-NITROPHENOL	UG/L	4	<10 - <200	4	<10
4-NITROPHENOL	UG/L	4	<10 - <200	4	<10
PENTACHLOROPHENOL	UG/L	3	<5.0 - <100	3	<5.0
PHENANTHRENE	UG/L	4	<5.0 - <100	4	<5.0
PHENOL	UG/L	4	530 - 1300	4	<5.0
PYRENE	UG/L	4	<5.0 - <100	4	<5.0

1. Deg. F. = degrees Fahrenheit; s.u. = standard pH units; mg/L = milligrams per liter;
 pg/L = picograms per liter; and µg/L = micrograms per liter.