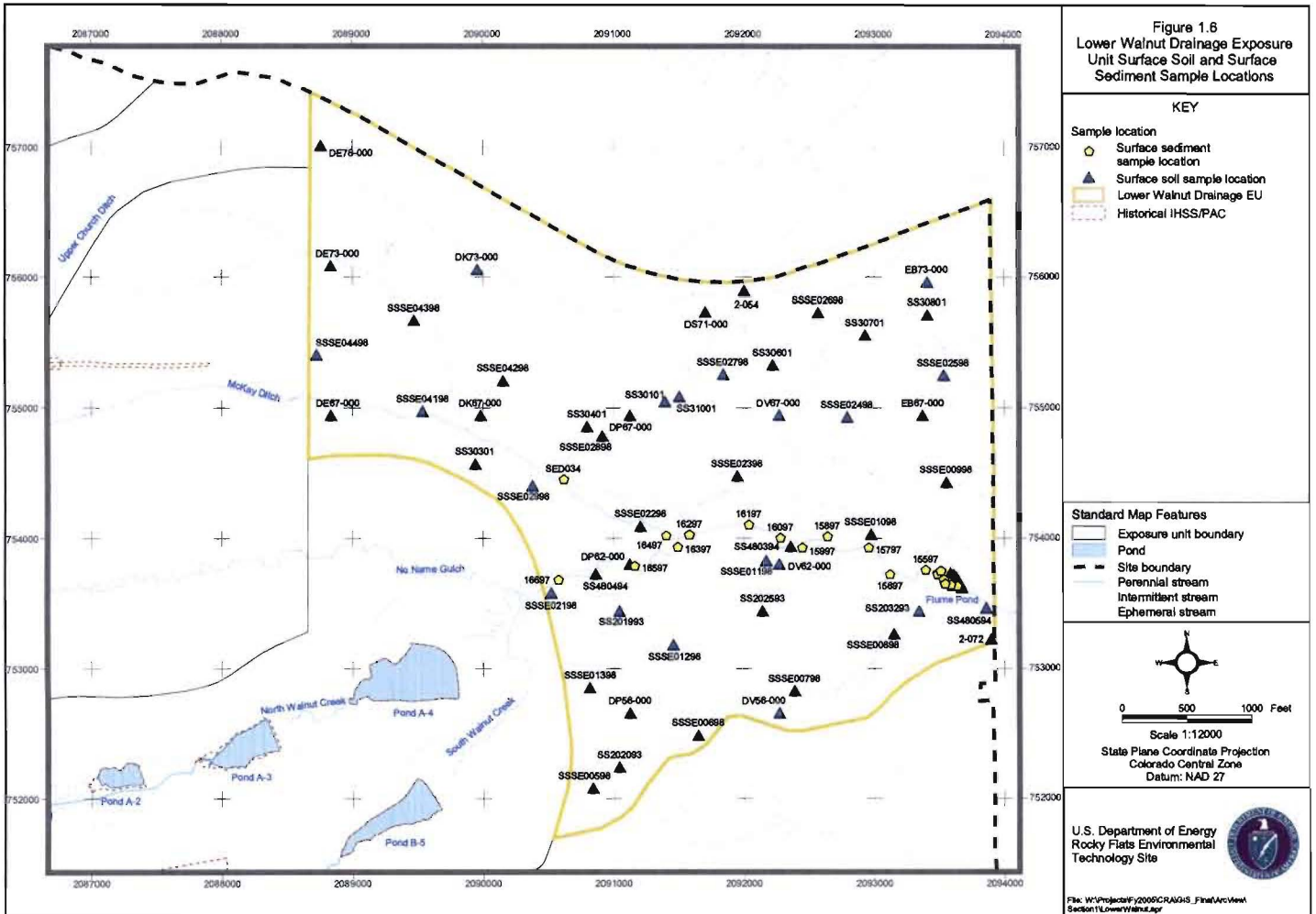


Lower Walnut Drainage Exposure Unit

Figure 1.6
Lower Walnut Drainage Exposure
Unit Surface Soil and Surface
Sediment Sample Locations



**Table 1.2
Number of Samples in Each Medium by Analyte Suite**

Analyte Suite	Surface Soil/Surface Sediment^a	Subsurface Soil/Subsurface Sediment^a	Surface Soil^b	Surface Soil (PMJM)^b	Subsurface Soil^b
Inorganics	29	20	23	9	14
Organics	15	21	12	8	16
Radionuclides	81	17	57	12	11

^a Used in the HHRA.

^b Used in the ERA.

The total number of results (samples) in Tables 1.3 through 1.7 may differ from the total number of samples presented in Table 1.2 because not all analyses are necessarily performed for each sample.

Table 1.3
Summary of Detected Analytes in Surface Soil/Surface Sediment

Analyte	Range of Reported Detection Limits ^a	Total Number of Results	Detection Frequency (%)	Minimum Detected Concentration	Maximum Detected Concentration	Arithmetic Mean Concentration ^b	Standard Deviation ^b
Inorganics (mg/kg)							
Aluminum		25	100	7,460	17,000	11,600	2,490
Antimony	0.31 - 22.9	17	23.5	0.490	1.00	3.20	3.84
Arsenic		25	100	2.20	9.40	5.45	1.56
Barium		25	100	86.4	180	126	23.1
Beryllium	0.73 - 1.4	25	80	0.622	1.30	0.793	0.214
Boron		18	100	2.75	8.40	4.89	1.43
Cadmium	0.038 - 1.7	25	80	0.220	2.20	0.900	0.633
Calcium		25	100	1,160	18,000	5,640	3,680
Chromium		28	100	6.90	21.0	13.3	3.49
Cobalt		28	100	4.30	11.0	7.67	1.52
Copper		28	100	5.00	22.0	13.9	3.22
Iron		28	100	9,520	81,700	18,126	13,535
Lead		28	100	13.0	50.9	23.8	9.79
Lithium		28	100	4.80	17.0	9.87	2.96
Magnesium		28	100	1,490	4,200	2,512	597
Manganese		28	100	130	1,110	286	175
Mercury	0.011 - 0.14	28	53.6	0.013	0.036	0.031	0.019
Molybdenum	0.25 - 8	28	64.3	0.202	5.30	1.14	1.33
Nickel	16.2 - 16.2	28	96.4	7.00	22.0	14.0	3.14
Nitrate / Nitrite	3.4 - 3.84	4	50	0.880	2.50	1.75	0.671
Potassium		28	100	1,490	3,400	2,289	572
Selenium	0.24 - 2.1	28	7.14	0.660	0.780	0.386	0.232
Silica		17	100	710	2,000	1,138	376
Silicon		5	100	283	1,970	1,285	634
Silver	0.078 - 2.7	28	39.3	0.167	1.31	0.602	0.497
Sodium	110 - 270	28	53.6	26.9	790	146	186
Strontium		28	100	23.4	95.0	47.3	16.5
Thallium	0.33 - 1.6	28	7.14	0.610	0.678	0.373	0.174
Tin	0.97 - 37.9	28	35.7	0.289	93.3	6.87	17.9
Titanium		21	100	42.0	150	90.2	30.5
Vanadium		28	100	20.9	52.0	34.0	8.04
Zinc		28	100	36.7	130	60.0	18.2
Organics (µg/kg)							
1,4-Dichlorobenzene ^c	340 - 600	15	53.3	0.450	1.50	107	82.7
2-Butanone	10 - 128	11	18.2	25.0	38.0	50.2	5.99
4,4'-DDT	16 - 29	7	14.3	26.0	26.0	13.3	1.80
Acetone	116 - 210	11	9.09	210	210	81.7	3.82
Benzoic Acid	1,700 - 1,700	7	85.7	220	500	380	6.68
bis(2-ethylhexyl)phthalate	410 - 450	7	57.1	49.0	130	138	77.1
delta-BHC	8.1 - 14	7	14.3	23.0	23.0	8.01	45.8
Di-n-butylphthalate	410 - 600	7	14.3	38.0	38.0	209	5.99
Methylene Chloride	5.8 - 28	11	18.2	1.80	3.10	4.85	19.3
Phenol	340 - 600	7	14.3	110	110	206	120
Tetrachloroethene	5 - 10	11	54.5	0.380	0.420	1.85	229
Toluene	5.8 - 6.4	11	27.3	6.00	18.0	6.01	57.5
Radionuclides (pCi/g)^d							
Americium-241		71	N/A	-0.022	0.336	0.064	0.070
Cesium-134		5	N/A	0.002	0.110	0.024	0.048
Cesium-137		10	N/A	0.004	1.25	0.597	0.497
Gross Alpha		11	N/A	-2.40	28.3	14.6	8.22
Gross Beta		11	N/A	8.45	33.8	24.2	7.03
Plutonium-239/240		77	N/A	-0.012	1.02	0.164	0.227
Radium-226		8	N/A	0.510	1.16	0.813	0.250
Radium-228		1	N/A	0.930	0.930	0.930	N/A
Strontium-89/90		4	N/A	-0.013	0.240	0.119	0.129
Uranium-233/234		41	N/A	0.351	1.47	0.894	0.249
Uranium-235		41	N/A	-0.093	0.196	0.055	0.063
Uranium-238		41	N/A	0	1.44	0.868	0.293

^a Values in this column are reported results for nondetects (i.e., U-qualified results).

^b For inorganics and organics, statistics are computed using one-half the reported value for nondetects.

^c All detections are "J" qualified, signifying that the reported result is below the detection limit, but above the instrument detection limit.

^d All radionuclide values are considered detects.

N/A = Not applicable.