EST 6-21-88

COMPUTATION FOR AREA OF SOIL CONTAMINATION

PHASE I sampling for PCBs & metals: 100 foot square grids, consisting of approx. 280 nodes based on 50-foot square quadrants were constructed by the EPA (Ref 3, p 10). Six 0-1 foot interval aliquots were collected within each of the 280 50-foot square quadrants using a back hoe. The aliquots were composited and homogenized to make one sample per grid area (Ref 3, p. 13)

grid spacing = 50' x 50'

39 = no. of 50 foot square quadrants w/ elevated levels of PCB/metals in near surface composite samples

PCBs (Ref. 3, Appendix D pp 8, 9).

metals (Ref. 3, Appendix D pp 1-4).

(50 ft)(50 ft)(39) = 97,500 ft^2

Phase 0 sampling for PCBs: Same method used in Phase I TAT sampling described above except "surface soil composite samples were collected at 0-4 inches below ground level" (Ref 3, p. 13).

grid spacing = 50' x 50'

2 = no. of 50 foot square quadrants w/ elevated PCB levels (Ref. 3, Appendix D, p. 7)

(50)(50)(2) = 5,000 ft^2

Transect surface soil samples w/ elevated levels of metals

To determine approx. area of contamination:

(1) Transect soil samples w/ elevated levels of metals were located (Ref 3, pp 23-25, p 18)

(2) Transect sample locations w/ elevated levels of metals were bounded by connecting lines to comprise one large area of contamination

(3) Grid spacings of 100 ft were extended to the NW corner of the site

31090

1.9.4.2

USEPA SF
1025404

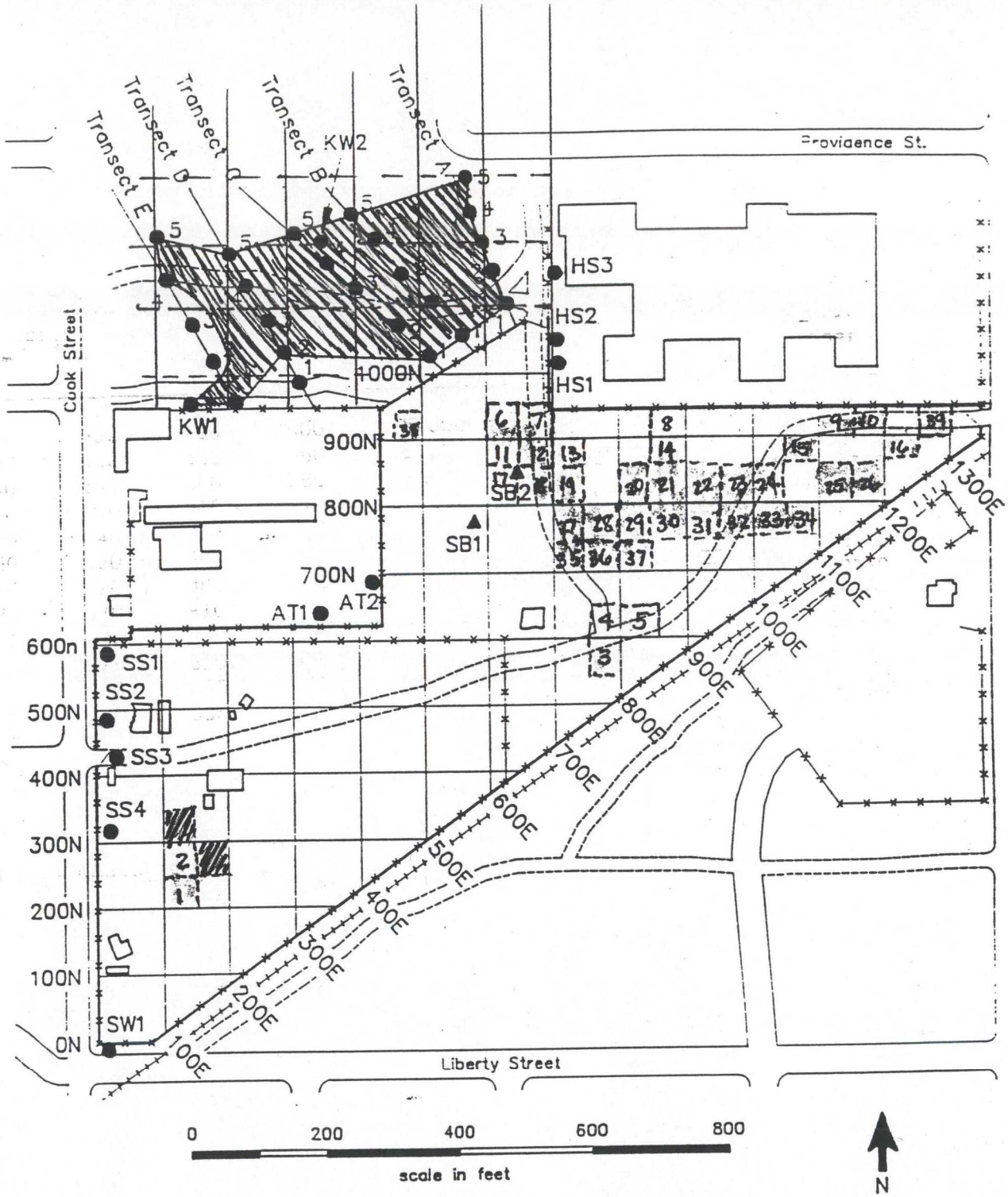
(Transect samples cont'd)

grid spacing = 100' x 100'

10 ≈ no. of 100 foot square grids w/ elevated levels of metals (Ref. 3, p 23-25)

$(100')(100')(10) = 100{,}000\ ft^2$

Total Area of Near surface soil contamination ≈ $97{,}500\ ft^2 + 5{,}000\ ft^2 + 100{,}000\ ft^2 \approx 202{,}500\ ft^2$



ecology & environment, inc.	
Job: F10-8803-01	Waste Site: WA 0526
Drawn by: D. P.	Date: June 21, 1988

LEGEND

- ● Surface soil sample
- ▲ Soil boring sample
- —— Spokane Junkyard propertyline

Phase I elevated levels of PCBs & Metals

Phase O elevated levels of PCBs

Transect soil samples w/ elev. levels of metals

FIGURE 6
ON-SITE AND TRANSECT SOIL SAMPLE LOCATIONS
SPOKANE JUNKYARD & ASSOCIATED SITES
Spokane, WA

TABLE (cont.)

Summary of Soil Samples with
PCB Results Greater Than 10 ppm
mg/kg (ppm)

Grid Location East From	East To	North From	North To	Total PCB	Sample Date	Lab	Sample Number
Phase One: Near Surface Composite Samples (0-1 ft. b.g.s.)							
100	150	200	250	24.000	09/02/87	FIT	T7070883
100	150	250	300	10.000	09/02/87	FIT	T7070884
100	150	250	300	11.000	09/02/87	FIT	T7070885
600	650	800	850	14.000	08/20/87	FIT	T7070392
600	650	850	900	39.000	08/20/87	FIT	T7070391
600	650	900	950	14.760	08/19/87	ARI	T7070390
650	700	800	850	31.000	08/20/87	FIT	T7070409
650	700	850	900	28.000	08/20/87	FIT	T7070410
650	700	900	950	26.000	08/20/87	FIT	T7070411
700	750	700	750	24.000	08/20/87	ARI	T7070417
700	750	700	750	22.000	08/20/87	FIT	T7070418
700	750	750	800	16.000	08/20/87	FIT	T7070416
700	750	800	850	37.000	08/20/87	FIT	T7070415
700	750	850	900	18.000	08/20/87	FIT	T7070413
750	800	550	600	1500.000	08/21/87	FIT	T7070424
750	800	600	650	57.620	08/21/87	ARI	T7070425
750	800	600	650	130.000	08/21/87	FIT	T7070426
750	800	700	750	10.000	08/21/87	FIT	T7070428
750	800	750	800	240.000	08/21/87	FIT	T7070429
800	850	600	650	11.000	08/21/87	FIT	T7070440
800	850	700	750	27.000	08/21/87	FIT	T7070438
800	850	750	800	150.000	08/21/87	FIT	T7070437
800	850	750	800	235.000	08/21/87	ARI	T7070436
800	850	800	850	100.000	08/21/87	FIT	T7070435
850	900	750	800	12.000	08/21/87	FIT	T7070445
850	900	850	900	47.000	08/21/87	FIT	T7070447
850	900	900	950	93.000	08/21/87	FIT	T7070448
900	950	750	800	54.000	08/22/87	FIT	T7070453
900	950	800	850	20.000	08/22/87	FIT	T7070452
950	1000	750	800	23.000	08/22/87	ARI	T7070458
950	1000	750	800	27.000	08/22/87	ARI	T7070457
950	1000	800	850	46.000	08/22/87	FIT	T7070459
1000	1050	750	800	27.000	08/22/87	FIT	T7070465
1000	1050	800	850	25.000	08/22/87	FIT	T7070464
1050	1100	750	800	39.000	08/22/87	ARI	T7070467
1050	1100	750	800	33.000	08/22/87	FIT	T7070468
1050	1100	850	900	29.000	08/22/87	FIT	T7070474
1100	1150	800	850	59.000	08/22/87	FIT	T7070473
1100	1150	900	950	26.000	08/22/87	FIT	T7070471

TABLE (cont.)

Summary of Soil Samples with PCB Results Greater Than 10 ppm mg/kg (ppm)

Grid Location East From	Grid Location East To	Grid Location North From	Grid Location North To	Total PCB	Sample Date	Lab	Sample Number
1150	1200	800	850	20.000	08/22/87	FIT	T7070476
1150	1200	900	950	449.000	08/22/87	FIT	T7070478
1200	1250	850	900	47.000	08/22/87	FIT	T7070480

[illegible]

[illegible] with the origin [illegible] of the site [illegible] shown in Figure [illegible]

Labs:

FIT - ~~[illegible]~~ Field investigation team, [illegible] analytical laboratory.

IRT - [illegible] Resources, Inc.

NEC - NEC Laboratories, Inc.

Flags:

J - Indicates an estimated value since certain quality assurance criteria are not met.

Results of Priority Pollutant Metals Analyses
for Soil Samples
Corigliano Site
Spokane, WA
mg/kg (ppm)

Grid Location East From	East To	North From	North To	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc	Sample Date	Sample Number
Initial Characterization: Surficial Composite Samples																			
0	250	0	225	20.000 U	24.0	333.0	2.0 U	7.3	52.0 J	83.0 J	285.0	0.20 UJ	22.0	4.0 UR	4.0 U	0.50 U	564.0	07/30/87	T7070511
0	250	225	375	22.000	32.0	414.0	2.0 U	10.0	43.0 J	93.0 J	286.0	0.20 UJ	27.0	4.0 UR	4.0 U	0.50 U	1440.0	07/30/87	T7070510
0	400	450	600	20.000 U	22.0	240.0	2.0 U	0.9 U	48.0 J	48.0 J	349.0	0.20 UJ	22.0	4.0 UR	4.0 U	0.50 U	220.0	07/30/87	T7070509
240	260	275	400	20.000 U	54.0	222.0	2.0 U	3.8	54.0 J	55.0 J	274.0	0.20 UJ	28.0	4.0 UR	5.0 U	0.50 U	909.0	07/30/87	T7070513
250	400	200	350	20.000 U	32.0	1090.0	2.0 U	6.6	201.0 J	83.0 J	3260.0	0.20 UJ	40.0	4.0 UR	4.0 U	0.50 U	684.0	07/30/87	T7070514
400	600	300	600	20.000 U	28.0	327.0	2.0 U	10.0	96.0 J	745.0 J	1030.0	1.10 J	43.0	4.0 UR	4.0 U	0.50 U	1210.0	07/30/87	T7070515
425	450	375	425	20.000 U	21.0	540.0	2.0 U	9.7	67.0 J	59.0 J	184.0	0.20 UJ	18.0	4.0 UR	4.0 U	0.50 U	35900.0	07/30/87	T7070518
425	450	375	425	20.000 U	25.0	375.0	2.0 U	10.0	30.0 J	58.0 J	111.0	0.20 UJ	16.0	4.0 UR	4.0 U	0.50 U	28900.0	07/30/87	T7070517
450	500	550	600	26.000 U	29.0	2600.0	2.0 U	17.0	166.0 J	467.0 J	6090.0	0.20 UJ	42.0	4.0 UR	4.0 U	0.50 U	2130.0	07/30/87	T7070516
800	850	700	750	38.000	4.0 U	138.0	1.4	1.7	40600.0	84.0	145.0	0.10 U	14.0		2.0 U	1.00 U	242.0	07/29/87	T7070521
950	1050	700	800	16.000	114.0	226.0	9.4	3.4	124.0	540.0	292.0	8.40	109.0		2.0 U	1.00 U	412.0	07/29/87	T7070522
Phase One: Near-Surface Composite Samples (0-1 ft. b.g.s.)																			
50	100	100	150	0.200 UJ	9.0	282.0	2.5	1.0 U	19.0	28.0	41.0	0.10 U	19.0	1.0 UJ	2.0 U	0.20 UJ	109.0	09/02/87	T7080910
50	100	100	150	0.200 UJ	14.0	271.0	2.3	1.0 U	17.0	27.0	35.0	0.10 U	18.0	1.0 UJ	2.0 U	0.20 UJ	101.0	09/02/87	T7080911
150	200	250	300	0.250 J	20.0	238.0	2.0	1.0 U	21.0	36.0	39.0	0.20 U	20.0	1.0 UJ	2.0 U	0.20 UJ	101.0	09/02/87	T7080874
200	250	100	150	0.760 J	9.8	248.0	2.5	1.0 U	20.4	41.9	57.6	0.10 U	20.4	1.0 UJ	2.0 U	0.20 UJ	133.0	08/31/87	T7080817
300	350	300	350	0.300 UJ	16.4	241.0	2.6	1.0 U	19.5	27.0	39.0	0.10 U	23.4	1.0 UJ	2.0 U	0.20 UJ	81.6	09/01/87	T7080827
400	450	800	850	0.200 UJ	9.4 J	72.2	2.0 U	1.0 U	15.7	27.2	23.1	0.10 U	9.0	1.0 U	2.0 U	0.20 U	65.1	08/27/87	T7080775
400	450	500	550	0.540 J	6.9	218.0	2.4	1.0 U	20.4	60.2	73.5	0.10 U	17.2	1.0 UJ	2.0 U	0.20 UJ	104.0	09/01/87	T7080825
400	450	400	450	0.780 UJ	9.9	244.0	2.5	1.0 U	18.8	33.1	35.3	0.10 U	23.2	1.0 UJ	2.0 U	0.20 UJ	97.3	08/28/87	T7080786
450	500	750	800	1.000 UR	7.0	126.0	1.4	1.0 U	20.0 J	14.0	24.0	0.20 U	14.0	2.5 U	2.0 U	0.40 UJ	60.0	08/19/87	T7080361
450	500	900	950	8.100 J	16.0	163.0	1.3	1.1	27.0 J	257.0	713.0	0.79	23.0	2.5 U	2.0 U	0.40 UJ	557.0	08/19/87	T7080365
500 550	500	550	0.200 UJ		11.1	208.0	2.4	1.0 U	19.6	41.4	34.6	0.10 U	22.8	1.0 UJ	2.0 U	0.20 UJ	120.0	08/28/87	T7080745
500	550	650	700	0.200 UJ	4.0 J	58.1	2.0 U	1.0 U	12.9	21.2	11.5	0.10 U	10.0	1.0 U	2.0 U	0.20 U	62.5	08/27/87	T7080758
550	600	750	800	0.300 UR	4.4	140.0	1.5	1.6	15.0 J	25.0	101.0	0.20 U	14.0	2.5 U	2.0 U	0.40 UJ	100.0	08/19/87	T7080379
600	650	900	950	35.000 J	22.0	748.0	2.5	18.0	123.0 J	26600.0	1450.0	1.08	152.0	2.5 U	4.7	0.40 UJ	1790.0	08/19/87	T7080390
600	650	900	950	53.000 J	44.0	706.0	2.2	19.0	169.0 J	5590.0	2640.0	0.78	150.0	2.5 U	2.2 U	0.40 UJ	6470.0	08/19/87	T7080389
650	700	450	500	0.200 UR	3.3	188.0	1.4	1.0 U	13.0 J	72.0	30.0	0.20 U	8.0	2.5 U	2.0 U	0.40 UJ	58.0	08/20/87	T7080401
700	750	700	750	12.000 J	22.0	612.0	1.7	26.0	150.0 J	3670.0	2580.0	1.30	143.0	2.5 U	8.1	0.40 UJ	9990.0	08/20/87	T7080417
750	800	600	650	5.900 J	17.0	338.0	1.4	6.0	74.0 J	1400.0	912.0	3.80	41.0 J	2.0 U	2.0 U	0.50 U	986.0	08/21/87	T7080425
800	850	750	800	223.000 J	10.0	477.0	6.0 U	28.0	347.0 J	13200.0	1840.0	4.50	215.0 J	2.5 U	59.0	0.50 U	7900.0	08/21/87	T7080436
850	900	900	950	0.345 J	12.0	177.0	1.5	1.6	15.0 J	151.0	100.0	0.15 U	14.0 J	2.5 U	2.0 U	0.50 U	267.0	08/21/87	T7080448
950	1000	750	800	29.000 J	16.0	281.0	7.7	10.2	84.0 J	850.0	519.0	1.80	87.0 J	2.5 U	2.0 U	0.50 U	459.0	08/22/87	T7080457
950	1000	750	800	26.000 J	14.0	327.0	16.0	9.5	69.0 J	1010.0	504.0	5.00	86.0 J	2.5 U	2.0 U	0.50 U	385.0	08/22/87	T7080458
1050	1100	750	800	391.000 J	187.0	538.0	13.0	10.8	253.0 J	4460.0	1690.0	1.00	127.0 J	2.5 U	4.0 U	0.50 U	909.0	08/22/87	T7080467
1050	1100	700	750	3.500 J	16.0	317.0	2.2	1.4	34.6	196.0	516.0	1.80	28.6	1.0 UJ	2.0 U	0.20 UJ	413.0	09/01/87	T7080835
1200	1250	850	900	0.300 J	14.2	58.7	2.1	1.0 U	20.4	33.9	27.3	0.10 U	14.4	1.0 UJ	2.0 U	0.20 UJ	70.8	09/01/87	T7080841
1250	1300	900	950	10.500 UJ	11.0	166.0	1.3	1.4	19.0 J	275.0	80.0	0.10 U	13.0 J	2.5 U	2.0 U	0.50 U	223.0	08/22/87	T7080481

TABLE (cont.)

Summary of Soil Samples with
PCB Results Greater Than 10 ppm
mg/kg (ppm)

Grid Location East From	East To	North From	North To	Total PCB	Sample Date	Lab	Sample Number
630	630	600	600	25.000	07/22/87	FIT	T7070315
630	630	660	660	11.000	07/28/87	FIT	T7070484
640	640	880	880	67.000	07/29/87	FIT	T7070508
640	640	910	910	57.000	07/29/87	FIT	T7070503
640	640	970	970	16.000	07/29/87	FIT	T7070495
660	660	600	600	65.000	07/28/87	FIT	T7070471
670	670	880	880	16.000	07/29/87	FIT	T7070520
670	670	910	910	11.000	07/29/87	FIT	T7070502
670	670	970	970	12.000	07/29/87	FIT	T7070494
675	675	630	630	17.000	07/23/87	FIT	T7070410
690	690	540	540	11.000	07/31/87	FIT	T7070528
690	690	600	600	340.000	07/31/87	FIT	T7070526
690	690	630	630	18.000	07/31/87	FIT	T7070524
720	720	600	600	16.000	07/31/87	FIT	T7070536
810	810	840	840	39.000	08/01/87	FIT	T7070598
870	870	720	720	25.000	08/01/87	FIT	T7070593
Initial Characterization: Surficial Composite Samples							
0	250	225	375	13.900	07/29/87	FIT	T7070510
100	150	200	250	310.000	09/10/87	FIT	T7090047
100	150	250	300	340.000	09/10/87	FIT	T7090048
100	150	300	350	16.000	09/10/87	FIT	T7090049
150	200	250	300	360.000	09/10/87	FIT	T7090043
150	200	250	300	380.000	09/10/87	FIT	T7090042
450	500	1050	1100	13.000	09/09/87	FIT	T7090031
Initial Characterization: Deep Grab Samples (Depth Indicated)							
570	570	540	540	53.000	07/22/87	FIT	T7070329 (0.5 ft. b.g.s)
810	810	840	840	12.000	08/01/87	FIT	T7070599 (1 ft. b.g.s.)
870	870	720	720	65.000	08/01/87	FIT	T7070594 (1 ft. b.g.s.)
810	810	840	840	1095.000 J	08/01/87	ARI	T7070605 (2 ft. b.g.s.)
990	990	750	750	34.000 J	08/01/87	ARI	T7070592 (4 ft. b.g.s.)

TABLE 2

SUMMARY OF INORGANIC ELEMENTS DETECTED IN SOIL TRANSECT SAMPLES
(mg/kg)

Elements	Background BKG-1	BKG-2	BKG-2D	BKG-3	A-1	A-2	A-3	A-4	A-5	B-1
Aluminum	15,300	15,300	14,600	16,700	78,700	24,800	14,600	21,100	9,220	33,500
Antimony	4.3 U	3.5 U	4.4 U	4.1 U	4.9 UJ	7.6 UJ	7.0 UJ	6.6 UJ	8.1 UJ	4.7 UJ
Arsenic	7.3 J	7.2 J	5.9 J	3.7	16.1 J	8.7	8.0	10.9	6.4	1.4 J
Barium	119.0	124.0	143.0 J	122.0	248.0 J	433.0 J	547.0 J	424.0 J	312.0 J	**920.0 J**
Beryllium	0.77J	0.79J	0.61J	0.9 J	0.29J	0.31U	0.32J	0.6 J	0.33U	0.21J
Cadmium	0.59U	0.48U	0.59UJ	0.55U	4.2	3.4	4.0	4.2	4.1	4.8
Calcium	6,450	4,460	5,100	5,720	5,450	7,380	7,720	7,840	9,590	12,400
Chromium	20.0	17.8	18.1	15.9	488.0	51.6	34.2	34.2	17.8	81.2
Cobalt	7.8 J	7.2 J	8.1 J	7.7 J	8.2 J	8.2 J	9.7 J	11.0 J	5.3 J	10.4 J
Copper	18.9 J	18.9 J	23.8 J	14.5 J	**1,760**	**546.0**	**689.0**	**199.0**	105.0	**5,780**
Iron	20,000	17,400	17,100	19,100	35,500	40,800	36,600	26,500	14,400	54,600
Lead	58.1 J	50.4 J	60.4	17.9 J	522.0	665.0	1,740	869.0	236.0	2,210
Magnesium	7,760	6,500	6,440	6,600	3,810	4,010	4,320	5,400	2,240	6,310
Manganese	423.0	475.0	498.0	420.0	642.0	634.0	956.0	823.0	540.0	708.0
Mercury	0.16	0.09U	0.12U	0.13U	4.3	0.2	0.52	0.21U	0.21U	0.77
Nickel	12.6	10.5	13.3	10.3	37.1	32.7	36.3	25.3	16.1	48.5
Potassium	2,440	2,660	2,670	2,540	1,480	1,940	2,290	3,280	1,400 J	1,480
Selenium	0.82J	0.27UJ	1.5 UJ	0.43J	R	R	R	R	R	R
Silver	1.8 UJ	1.4 UJ	1.8 UJ	1.7 UJ	2.0 UJ	3.1 UJ	2.9 UJ	2.7 UJ	3.3 UJ	1.9 UJ
Sodium	444.0 J	512.0 J	199.0 J	334.0 J	272.0 J	374.0 J	271.0 J	302.0 J	210.0 J	345.0 J
Thallium	R	R	0.35U	R	R	R	R	R	R	R
Vanadium	29.4	24.3	24.2	26.8	18.1	25.8	26.0	33.6	15.5	22.2
Zinc	116.0 J	126.0 J	140.0	116.0 J	**1,290 J**	**1,580 J**	**1,900 J**	**995.0 J**	607.0 J	**5,460 J**

Note: Bold print indicates elevated levels (i.e., 5 times highest background level or 3 times background detection limit) of elements.

(mg/kg) = milligram/kilogram = parts per million (ppm)

U - The material was analyzed for, but was not detected. The associated numerical values is an estimated sample detection limit.
J - The associated numerical value is an estimated quantity because quality control criteria were not met or concentrations reported were less than the CRDL.
R - Quality Control indicates that data are unusable (compound may or may not be present). Resampling and reanalysis are necessary for verification.

TABLE 2 (Cont.)

SUMMARY OF INORGANIC ELEMENTS DETECTED IN SOIL TRANSECT SAMPLES
(mg/kg)

Elements	B-2	B-3	B-4	B-5	B-5D	C-1	C-1D	C-2	C-3	C-3D	C-4
Aluminum	14,700	15,800	10,300	14,700	15,600	9,830	14,700	12,000	14,200	17,600	19,300
Antimony	7.4 UJ	6.9 UJ	10.2 J	6.4 UJ	6.4 J	25.7 J	51.7	4.5 J	6.4 UJ	6.7 J	9.6 J
Arsenic	7.9	7.4	14.4	93.9	7.2	18.2	21.8	12.6	8.0	10.7	7.9
Barium	324.0 J	341.0 J	667.0 J	269.0 J	264.0	1,860 J	2,390	246.0 J	252.0 J	268.0	375.0
Beryllium	0.3 U	0.32J	0.25J	0.49J	0.81J	0.22U	0.77J	0.75J	0.38J	0.83J	1.1 J
Cadmium	3.8	4.4	1.5	2.6	2.2	45.7	29.4	6.2	7.0	1.8	15.0
Calcium	7,380	6,470	4,230	10,200	9,990	9,880	9,720	4,730	5,720	6,360	8,610
Chromium	33.5	24.4	22.2	23.4	20.8	102.0	116.0	37.3	20.0	31.6	54.2
Cobalt	7.4 J	10.6 J	7.6 J	7.6 J	7.8 J	13.3	17.4	8.1 J	7.2	10.3 J	10.3 J
Copper	324.0	181.0	620.0	74.4	62.9 J	2,270	3,160 J	815.0	162.0	2,180 J	120.0 J
Iron	26,300	51,700	44,900	19,700	23,800	289,000	207,000	46,900	25,800	38,800	34,700
Lead	41.0	245.0	4,400	276.0	256.0 J	20,200	15,400 J	568.0	383.0	392.0 J	979.0 J
Magnesium	4,090	4,070	3,880	4,430	4,800	2,550	4,060	5,750	4,240	5,040	4,520
Manganese	659.0	803.0	561.0	713.0	698.0	1,210	1,120	528.0	604.0	678.0	922.0
Mercury	0.16U	0.72	0.2	0.17U	0.16U	0.3	34.4	0.19	0.15U	0.19U	0.21U
Nickel	23.4	32.0	33.4	21.3	16.2	175.0	137.0	31.8	25.4	27.7	34.6
Potassium	2,130	2,420	1,780	2,880	2,960	835.0 J	1,260	2,230	2,220	2,600	3,370
Selenium	R	R	R	R	0.55UJ	R	0.38UJ	R	R	R	0.63UJ 0.77UJ
Silver	3.0 UJ	2.8 U	1.7 UJ	2.6 UJ	2.4 UJ	2.2 UJ	1.8 UJ	1.7 UJ	2.6 UJ	2.1 UJ	3.4 UJ
Sodium	240.0 J	311.0 J	143.0 J	228 J	327.0 J	456.0 J	1,180	343.0 J	199.0 J	496.0 J	583.0 J
Thallium	R	R	R	R	R	R	2.1 J	R	R	R	R
Vanadium	22.0	24.2	15.1	22.3	29.2	13.9	47.1	17.1	20.0	31.8	42.2
Zinc	1,310 J	926.0 J	2,620 J	416.0 J	423.0 J	95,300 J	65,800 J	2,960 J	1,100 J	1,090 J	612.0 J

Note: Bold print indicates elevated levels (i.e., 5 times highest background level or 3 times background detection limit) of elements.

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TABLE 2 (Cont.)

SUMMARY OF INORGANIC ELEMENTS DETECTED IN SOIL TRANSECT SAMPLES
(mg/kg)

Elements	C-5	D-1	D-2	D-3	D-4	D-5	E-1	E-2	E-3	E-4	E-5
Aluminum	19,800	24,200	11,500	19,700	13,000	13,100	4,310	11,400	14,800	16,800	14,100
Antimony	6.0 U	7.7 J	**84.9**	6.9 J	11.4 J	6.0 U	4.6 U	5.1 U	4.5 U	5.8 U	20.1 J
Arsenic	7.8	8.4	25.3	10.8	11.3 J	7.7 J	3.5 J	12.9 J	8.5 J	7.8 J	35.5 J
Barium	353.0	233.0	829.0	305.0	384.0	238.0 J	99.7 J	119.0 J	112.0 J	311.0 J	337.0 J
Beryllium	1.1 J	1.4 J	0.61J	1.2	0.79J	0.6 J	0.19U	0.57J	0.69J	0.82J	0.46J
Cadmium	**2.0**	1.0 U	**24.9**	**1.5**	**3.3**	28.7 J	0.63UJ	0.69UJ	0.61UJ	3.1 J	0.72UJ
Calcium	10,500	6,860	5,700	7,670	4,690	4,970	3,960	9,480	6,360	5,750	3,830
Chromium	31.1	49.2	**103.0**	45.6	32.0	25.3	16.7	34.4	17.1	29.0	41.9
Cobalt	10.2 J	12.6 J	39.0	15.0	10.6	8.4 J	3.9 J	9.6 J	9.7 J	10.7 J	13.4
Copper	52.4 J	126.0 J	1,180 J	219.0 J	110.0 J	48.9 J	150.0 J	28.5 J	16.4 J	71.6 J	169.0 J
Iron	35,100	31,500	1,723	61,300	66,600	23,800	10,800	22,000	22,500	48,100	**68,000**
Lead	272.0 J	202.0 J	**3,730** J	516.0 J	4,200 J	**423.0**	**436.0**	224.0	26.7	**435.0**	**12,600**
Magnesium	4,690	6,060	3,790	5,780	4,950	4,690	1,890	5,380	6,550	4,720	1,560
Manganese	810.0	712.0	1,310	687.0	507.0	498.0	171.0	629.0	450.0	699.0	699.0
Mercury	0.15U	0.18U	**0.8**	0.23	0.22	0.16J	0.11U	0.12U	0.12U	0.18J	0.17U
Nickel	27.0	21.6	**121.0**	33.5	55.0	18.3	20.0	13.4	13.3	23.8	**99.1**
Potassium	4,210	3,670	1,840	3,130	1,870	2,480	668.0 J	1,980	3,220	2,800	1,480
Selenium	0.51UJ	0.53UJ	0.36UJ	0.78J	0.41UJ	0.51UJ	0.3 UJ	1.9 UJ	0.35UJ	4.1 J	2.6 UJ
Silver	2.4 UJ	3.1 UJ	1.2 UJ	1.8 UJ	1.8 UJ	2.4 UJ	5.1 J	2.1 UJ	1.8 UJ	2.4 UJ	2.9 J
Sodium	468.0 J	395.0 J	1,530	605.0 J	392.0 J	179.0 J	328.0 J	226.0 J	140.0 J	228.0 J	611.0 J
Thallium	R	3.5 J	R	R	R	2.8 U	1.7 U	2.2 U	1.9 U	2.6 U	3.0 U
Vanadium	37.5	42.2	18.3	33.6	72.3	29.7	47.5	39.1	32.4	**29.6**	98.3
Zinc	564.0 J	228.0 J	8,240 J	2,020 J	1,340 J	506.0	246.0	167.0	83.1	**944.0**	**3,290**

Note: Bold print indicates elevated levels (i.e., 5 times highest background level or 3 times background detection limit) of elements.

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TABLE 3

SUMMARY OF INORGANIC ELEMENTS DETECTED IN SOIL SAMPLES
(mg/kg)

Elements	Highest BKG	KW-1	KW-2	AT-1	AT-2	SB1A	SB1B	SB2A	SS-1	SS-2
Aluminum	16,700	9,100	16,900	14,300	15,000	17,700	12,900	16,600	18,900	14,100
Antimony	4.4 U	4.5 U	6.6 U	5.2 U	7.0 J	4.6 U	3.7 U	3.6 U	5.2 U	4.8 U
Arsenic	7.3 J	2.7 J	7.5 J	8.4	8.5	8.1 J	11.9 J	17.9 J	7.5 J	7.2 J
Barium	143.0	209.0 J	702.0 J	114.0	161.0	142.0 J	765.0 J	151.0 J	174.0 J	122.0
Beryllium	0.9 J	0.39J	0.75J	0.7 J	0.72J	0.7 J	0.63J	0.72J	0.67J	0.42J
Cadmium	0.59U	0.93J	8.4 J	0.7 U	1.7	177.0 J	88.1 J	10.8 J	0.72UJ	0.66U
Calcium	6,450	14,800	6,410	6,970	7,670	2,550	2,240	3,560	7,880	5,740
Chromium	20.0	72.6	67.5	20.6	44.2	29.8	20.7	25.2	17.3	16.8
Cobalt	8.1 J	11.1	12.5 J	8.8 J	10.9 J	9.4	7.0 J	12.3	9.3 J	8.1 J
Copper	23.8 J	155.0 J	233.0 J	32.4 J	85.7 J	38.0 J	24.4 J	171.0 J	36.1 J	30.6 J
Iron	20,000	66,000	61,900	25,900	35,400	28,500	21,400	46,100	21,200	18,300
Lead	60.4	576.0	947.0	83.1 J	245.0 J	230.0	55.0	214.0	60.0	86.7 J
Magnesium	7,760	4,740	5,540	7,070	6,400	6,780	7,050	6,130	5,920	5,880
Manganese	498.0	528.0	723.0	460.0	617.0	670.0	440.0	670.0	528.0	401.0
Mercury	0.16	0.13U	0.17U	0.11U	0.14U	0.11U	0.08U	2.3 J	0.13U	0.13U
Nickel	13.3	32.5	55.9	18.2	27.8	18.6	17.0	22.0	13.1	12.3
Potassium	2,670	1,380	3,350	2,890	2,960	2,200	1,680	2,570	3,660	2,860
Selenium	0.82J	0.4 UJ	2.4 UJ	0.38UJ	1.6 UJ	1.5 UJ	1.4 UJ	0.64UJ	0.34UJ	R
Silver	1.8 UJ	1.8 U	2.7 UJ	2.1 UJ	2.2 UJ	1.9 UJ	1.5 UJ	1.5 UJ	2.2 UJ	2.0 UJ
Sodium	512.0 J	279 J	415.0 J	428.0 J	515.0 J	177.0 J	177.0 J	246.0 J	254.0 J	244.0 J
Thallium	0.35U	2.2 U	0.56U	R	R	0.36U	0.32U	0.37U	0.41U	0.4 U
Vanadium	29.4	28.4	46.6	26.9	32.0	24.3	17.6	23.5	27.5	25.5
Zinc	140.0	3,800	4,670	309.0 J	610.0 J	227.0	109.0	434.0	114.0	808.0 J

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TABLE 3 (Cont.)

SUMMARY OF INORGANIC ELEMENTS DETECTED IN SOIL SAMPLES
(mg/kg)

Elements	SS-3	SS-3D	SS-4	SW-1	SW-1D	HS-1	HS-2	HS-3	BES-1	BES-2
Aluminum	15,100	16,400	12,900	9,450	10,400	15,600	16,600	14,700	10,000	13,400
Antimony	3.9 U	3.7 U	3.9 U	4.9 U	5.2 U	3.8 U	5.7 J	4.4 U	5.1 U	4.2 U
Arsenic	7.8 J	8.5 J	5.0 J	5.4	4.8 J	5.1	7.0	8.2 J	12.5 J	9.0 J
Barium	112.0	165.0	125.0	86.7	125.0 J	151.0	127.0	94.0 J	51.5 J	89.9 J
Beryllium	0.34J	0.58J	0.34J	0.67J	0.28J	0.72J	0.84J	0.56J	0.37J	0.65J
Cadmium	0.53U	1.1	0.53U	0.67U	0.71UJ	0.52U	0.65U	0.66J	0.69UJ	0.57UJ
Calcium	2,910	4,450	3,300	11,600	9,600	5,410	3,610	3,860	8,840	10,600
Chromium	16.5	24.8	18.1	13.0	15.1	17.9	17.4	18.8	11.4	19.1
Cobalt	7.6 J	9.2	6.9 J	5.4 J	6.7 J	9.3	8.1 J	7.4 J	4.5 J	6.6 J
Copper	38.6 J	49.2 J	45.7 J	29.0 J	54.3 J	93.1 J	88.9 J	102.0 J	11.2 J	11.9 J
Iron	20,400	24,000	19,300	14,000	16,300	20,500	21,900	18,300	16,000	17,200
Lead	**682.0 J**	128.0 J	66.9 J	160.0 J	121.0	87.4 J	143.0 J	91.2	8.4	18.4
Magnesium	7,910	4,820	6,330	4,440	5,920	7,070	7,500	5,990	7,460	7,520
Manganese	431.0	469.0	385.0	282.0	327.0	447.0	469.0	425.0	251.0	296.0
Mercury	0.11U	0.12U	0.12U	0.12U	0.13U	0.3	0.19	0.16J	0.12U	0.12U
Nickel	12.4	17.1	13.6	6.9 J	9.4 J	14.4	13.6	12.2	8.3 J	10.0
Potassium	2,630	2,870	2,580	2,010	2,460	2,400	2,640	2,290	1,980	2,360
Selenium	R	R	R	0.89J	2.0 UJ	0.32UJ	0.33UJ	1.8 UJ	2.1 UJ	1.9 UJ
Silver	1.6 UJ	1.5 UJ	1.6 UJ	2.0 UJ	2.1 UJ	1.6 UJ	1.9 UJ	1.8 UJ	2.1 UJ	1.7 UJ
Sodium	234.0 J	330.0 J	199.0 J	462.0 J	211.0 J	273.0 J	240.0 J	194.0 J	129.0 J	156.0 J
Thallium	0.24U	0.39U	0.31J	R	0.48U	**2.0 J**	R	0.39U	0.5 U	0.44U
Vanadium	22.5	29.6	21.5	21.5	23.2	24.6	26.6	19.1	11.6	19.0
Zinc	99.2 J	137.0 J	110.0 J	97.2 J	123.0	177.0 J	156.0 J	237.0	53.1	62.2

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TABLE 3 (Cont.)

SUMMARY OF INORGANIC ELEMENTS DETECTED IN SOIL SAMPLES
(mg/kg)

Elements	RS-1	RS-2	RS-3	RS-4	RS-5	RS-6	RS-7	RS-8	RS-9	RS-10
Aluminum	17,400	15,700	21,800	14,100	24,000	22,000	13,100	20,900	20,600	14,600
Antimony	6.6 UJ	5.8 UJ	6.4 UJ	4.6 UJ	9.8 UJ	7.2 UJ	5.3 UJ	7.0 U	7.6 U	5.2 U
Arsenic	16.3	7.2	8.2	5.9	8.0	9.9 J	7.9	7.8	7.4	10.8
Barium	159.0 J	176.0 J	196.0 J	112.0 J	240.0 J	222.0 J	222.0 J	204.0	154.0	112.0
Beryllium	0.3 J	0.52J	0.29J	0.27J	0.76J	0.43J	0.31J	0.96J	1.0 J	0.71J
Cadmium	0.9 U	0.78U	0.87U	0.63U	1.3 U	2.6	0.72U	0.96U	1.0 U	0.71U
Calcium	5,400	5,600	7,450	5,120	10,400	8,090	8,460	11,600	6,550	4,140
Chromium	23.7	16.0	24.3	18.6	26.1	32.2	29.6	31.4	27.0	17.0
Cobalt	9.5 J	7.6 J	10.2 J	7.9 J	10.5 J	10.5 J	7.4 J	9.8 J	10.4 J	7.0 J
Copper	31.5	37.7	31.6	21.0	93.7	38.0	64.9	42.7 J	33.2 J	13.5 J
Iron	21,000	19,000	19,600	17,900	21,400	20,800	17,600	22,800	24,400	19,300
Lead	130.0	86.4	99.8	32.1	67.8	578.0	244.0	182.0 J	126.0 J	38.0 J
Magnesium	6,170	6,400	6,430	6,440	6,590	7,080	6,910	7,340	6,560	6,380
Manganese	541.0	702.0	635.0	425.0	682.0	645.0	473.0	591.0	533.0	395.0
Mercury	0.15U	0.14U	0.18U	0.14U	0.28U	0.17U	0.13U	0.24	0.13U	0.12U
Nickel	16.6	12.7	14.4	12.2	17.3 J	18.8	12.2	15.3	17.3	10.8
Potassium	2,690	3,160	3,990	3,170	3,580	3,480	2,890	4,140	3,450	2,880
Selenium	R	R	R	R	R	R	R	2.2 UJ	0.47UJ	1.6 UJ
Silver	2.7 UJ	2.4 UJ	2.6 UJ	1.9 UJ	4.0 UJ	3.0 UJ	2.2 UJ	2.9 UJ	3.1 UJ	2.1 UJ
Sodium	229.0 J	207.0 J	299.0 J	222.0 J	322.0 J	386.0 J	238.0 J	468.0 J	533.0 J	335.0 J
Thallium	R	0.43J	R	R	R	R	R	R	R	R
Vanadium	27.6	22.5	30.5	20.0	32.5	35.0	18.8	36.6	42.8	27.8
Zinc	609.0 J	175.0 J	132.0 J	762.0 J	144.0 J	602.0 J	295.0 J	249.0 J	244.0 J	196.0 J

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