Appendix C-7

Landau 1992: Thompson-Isaacson Site, Full-Scale Soil Stabilization Program, Summary Report

Final Report

Thompson-Isaacson Site Full-Scale Soil Stabilization Program Summary Report

Volume I of III

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Prepared for

The Boeing Company

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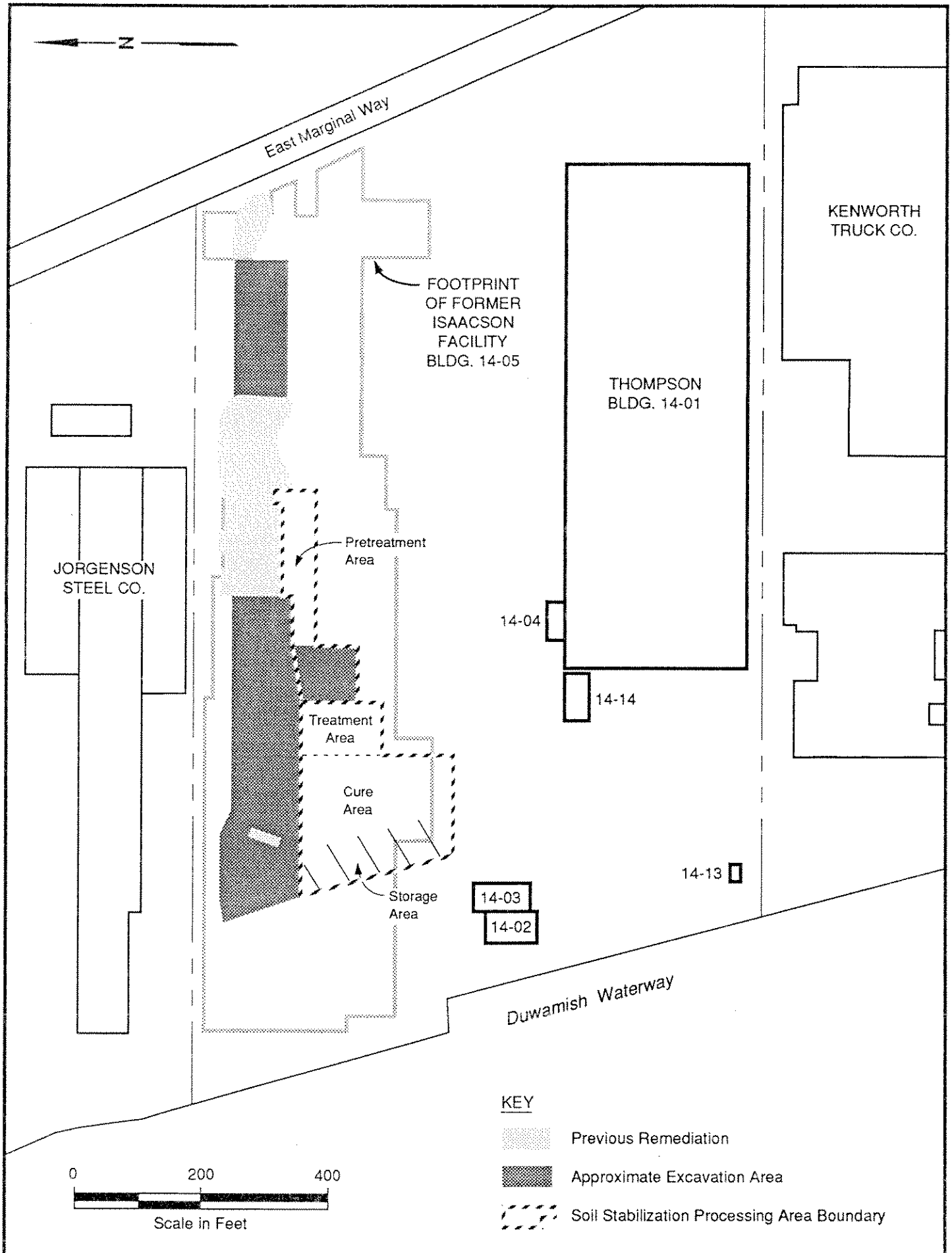

LANDAU ASSOCIATES, INC.	Pilot Test Site Layout

Figure 3

TABLE 2
Summary of Pre-Treatment, Post-Treatment, and Cure Area Samples
TCLP Metals

Pre-Treatment

Analyte	Number of Samples Undetected	Number of Samples Detected	Conc Range (a) (mg/L)	Avg Conc (a) (mg/L)
Arsenic	6	87	0.20-11	2.76
Barium	89	4	0.20-4.8	1.37
Chromium	93	0	-	-
Copper	3	90	0.10-9.2	2.26
Lead	91	2	0.97-11	5.99
Nickel	88	5	0.16-0.26	0.19
Zinc	2	91	0.22-53	4.45

Post- Treatment

Analyte	Number of Samples Undetected	Number of Samples Detected	Conc Range (a) (mg/L)	Avg Conc (a) (mg/L)
Arsenic	337	49	0.20-0.61	0.26
Barium	386	0	-	-
Chromium	360	26	0.10-0.15	0.11
Copper	85	301	0.10-0.42	0.22
Lead	386	0	-	-
Nickel	386	0	-	-
Zinc	378	4	0.10-2.2	0.65

Cure Area

Analyte	Number of Samples Undetected	Number of Samples Detected	Conc Range (a) (mg/L)	Avg Conc (a) (mg/L)
Arsenic (b)	39	22	0.21-3.1	0.65
Barium	64	0	-	-
Chromium	64	0	-	-
Copper	5	59	0.10-0.61	0.30
Lead	64	0	-	-
Nickel	64	0	-	-
Zinc	60	4	0.10-0.21	0.13

(a) The concentration range and average concentration are for detected analytes only.
(b) These results do not include the three samples which exceeded hazardous waste levels. Soil representing those samples was reprocessed and analytical results indicated no exceedance of hazardous waste levels.

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APPENDIX A
SIDEWALL SAMPLING
BOEING THOMPSON/ISAACSON SITE

INTRODUCTION

This appendix presents the sampling plan that GeoEngineers used during collection of soil samples from the sidewalls of the remedial excavation at the Boeing Thompson/Isaacson site. The locations from which the soil samples were collected are shown in Plates A1, A2 and A3. The soil samples were submitted to Tech Dryer (Technical Dryer Corporation) for chemical analysis of arsenic using a screening technique. The screening was used to determine if soil with elevated concentrations of arsenic had been successfully removed from the excavation.

Soil samples were submitted for arsenic screening and chemical analysis according to the following sequence:

1. Obtain soil sample from the limits of the excavation.
2. Submit the soil sample to Tech Dryer for screening.
3. If screening detected arsenic at concentrations exceeding 175 ppm (parts per million), the sidewall was excavated an additional 12 feet and then resampled for screening by Tech Dryer. Excavated soil was treated using the soil stabilization treatment process.
4. If screening detected arsenic at concentrations less than 175 ppm, the sample was submitted to Laucks (Laucks Testing Laboratory) for confirmation using EPA Method 6010.

SAMPLING PROGRAM

GENERAL

Tech Dryer screened soil samples for the presence of arsenic between August 16 and November 26, 1991. Laucks analyzed soil samples for the presence of arsenic using EPA Method 6010. Soil sampling locations are shown in Plates A2 and A3. The chemical analytical results are presented in Table A1. Laboratory reports are presented in Appendix E.1.

SOIL SAMPLE COLLECTION

The surface of the proposed excavation was divided into 12-foot cells referenced to manholes of the storm sewer line bordering the northern edge of the excavation. The manholes were labeled 1 through 5 from east to west. The 12-foot cells were labeled sequentially from number 1 proceeding westward from each manhole. The proposed excavation was 85 feet wide in the north-south direction.

Samples obtained from the north and south sidewalls were labeled with the manhole number followed by the cell number and an "N" or "S" to designate the direction of the sidewall. For example, a soil sample obtained from the north sidewall west of manhole number 3 in cell 17 was

TABLE A1
SUMMARY OF ARSENIC ANALYSIS--SOIL SAMPLES[1]
BOEING THOMPSON/ISAACSON SITE

Sample Number	Date Sampled	Time Sampled	Quadrants Sampled	Total Arsenic	
				Screen Test[2] (ppm)	Analytical Results[3] (ppm)
M5W-14-N	8/19/91	1030	3,2	81	96
M5W-14-S	8/19/91	1355	3,2	85	110
M5W-13-N	8/20/91	1230	1,4	172	180
M5W-13-S	8/21/91	0845	1,4	85	120
M5W-12-S	8/21/91	0850	3,2	51	62
M5W-12-N	8/21/91	0900	1,4	23	21
M5W-11-S	8/21/91	1255	3,2	294	--
M5W-11-N	8/21/91	1310	3,2	45	67
M5W-10-N	8/22/91	1015	1,4	788	--
M5W-10-S	8/22/91	1330	3,2	189	240
M5W-9-N	8/22/91	1340	3,2	319	--
M5W-9-S	8/23/91	1030	1,3	94	140
M5W-8-N	8/23/91	1040	3,2	305	--
M5W-7-N	8/26/91	1105	2,4	294	--
M5W-7a-N[4]	8/26/91	1110	seam[5]	43	37
M5W-8-S	8/26/91	1120	3,2	62	150
M5W-7-S	8/27/91	0640	1,4	550	--
M5W-6-N	8/27/91	0650	2,4	1700	--
M5W-5-N	8/27/91	1120	3,2	174	290
M5W-6-S	8/27/91	1130	1,4	84	120
M5W-5-S	8/27/91	1445	2,4	53	82
M5W-4-N	8/28/91	0800	2,3	1480	--
M5W-3-N	8/28/91	0805	1,3	965	--
M5W-2-S[6]	8/29/91	0650	1,4	40	60
M5W-1-S	9/3/91	0900	1,3	23	24
M4W-25-S	9/3/91	0905	2,3	15	49
M4W-25-N	9/3/91	0910	1,3	1900 (2040)	--
M4W-24-N	9/3/91	0915	1,4	1940	--
M4W-23-N[7]	9/4/91	0700	2,3	1440	--
M4W-24-S[8]	9/4/91	0705	1,3	20	24
M4W-23-S[9]	9/4/91	0710	2,3	16 (19)	20
M4W-22-N[10]	9/4/91	0715	2,3	39	58
M4W-22-S	9/4/91	1415	1,3	2520	--
M4W-21-N	9/4/91	1420	1,4	1210	--
M4W-20-N	9/4/91	1425	2,3	1100	--
M4W-21-S	9/5/91	1015	1,4	17	11
M4W-21-S-D[11]	9/5/91	1015	1,4	18	7
M4W-19-N	9/5/91	1020	2,3	2460 (2680)	--
M4W-20-S	9/5/91	1400	1,3	40	47
M4W-18-N	9/5/91	1405	1,4	1230	--

Notes:

[1]Sampling locations are shown in Plates A2 and A3.

[2]Arsenic screen test conducted by Technical Dryer Corporation. Results of duplicate test shown in parentheses. Screening results are presented in Appendix E.1.

[3]Arsenic chemical analysis (EPA Method 6010) conducted by Laucks Testing Laboratory. Laboratory reports are included in Appendix E.1.

[4]Sample identification is reported as M5W-7A-N in Laucks' laboratory report.

[5]Sample was collected from a seam of black silt at a depth of 4.5 to 5 feet.

[6]Sample identification is reported as MSW-2-S in Laucks' laboratory report.

[7]Sample identification is reported as M4W-23-S in Tech Dryer's and Laucks' laboratory reports.

[8]Sample identification is reported as M4W-24-N in Tech Dryer's and Laucks' laboratory report.

[9]Sample identification is reported as M4W-23-N in Tech Dryer's and Laucks' laboratory reports.

[10]Sample identification is reported as M4W-22-S in Tech Dryer's and Laucks' laboratory reports.

[11]Duplicate of M4W-21-S.

TABLE A1
SUMMARY OF ARSENIC ANALYSIS--SOIL SAMPLES[1]
BOEING THOMPSON/ISAACSON SITE

Sample Number	Date Sampled	Time Sampled	Quadrants Sampled	Total Arsenic	
				Screen Test[2] (ppm)	Analytical Results[3] (ppm)
M4W-19-S	9/6/91	0800	2,3	59 (49)	63
M4W-17-N	9/6/91	0805	1,3	1530	--
M4W-18-S	9/6/91	1340	2,3	114	78
M4W-17-S	9/6/91	1345	1,4	37	41
M4W-16-N	9/9/91	0815	2,3	1520	--
090991-D[4]	9/9/91	0815	2,3	1590	--
M4W-15-N	9/9/91	0830	1,4	1540	--
M4W-16-S	9/9/91	1040	1,4	88	92
M4W-15-S	9/9/91	1050	2,4	137 (117)	150
M4W-14-N	9/10/91	0640	2,3	1420	--
M4W-13-N	9/10/91	0645	2,3	1650 (1520)	--
M4W-14-S	9/10/91	1315	2,3	161	160
M4W-13-S	9/10/91	1320	1,3	83	73
M4W-12-S	9/10/91	1330	3,4	137	510
M4W-12-N	9/10/91	1340	2,3	992	--
M4W-11-N	9/10/91	1350	2,3	2150	--
M4W-10-N	9/11/91	1130	2,3	264	--
M4W-9-N	9/11/91	1135	2,3	1620 (1640)	--
M4W-8-N	9/12/91	0800	1,3	1850 (1890)	--
M4W-7-N	9/12/91	0810	1,4	1920	--
M4W-6-N	9/13/91	0850	2,4	1740 (1900)	--
M4W-5-N	9/13/91	0900	2,3	50	50
M4W-6-S	9/13/91	0910	2,3	1090	--
M4W-5-S	9/13/91	1225	1,4	841	--
M4W-4-N	9/13/91	1235	2,4	46	29
M4W-4-S	9/16/91	0830	1,4	26	27
M4W-3-S	9/16/91	0840	2,3	104	160
M4W-3-N	9/16/91	0854	1,4	45	56
M4W-2-N	9/16/91	1450	1,4	56	66
M4W-1-N	9/16/91	1500	1,3	1270	--
M4W-2-S	9/16/91	1515	2,3	24	15
910916-D1[5]	9/16/91	1535	1,4	28	27
910916-D2[6]	9/16/91	1540	1,4	52	62
M4W-1-S	9/17/91	1310	1,4	171	160
M3W-16-S	9/17/91	1320	2,4	74	81
M3W-16-N	9/17/91	1330	1,4	514 (517)	--
M3W-15-N	9/17/91	1340	2,3	1380	--
M3W-14-N	9/18/91	0720	1,3	659	--
M3W-13-N	9/18/91	0735	1,4	1380	--
M3W-15-S	9/18/91	0800	1,4	133	150
M3W-14-S	9/18/91	1430	1,3	155 (102)	91
M3W-13-S	9/18/91	1440	1,4	90	94
M3W-13-E1	9/18/91	1450	note[7]	829	--

Notes:

[1]Sampling locations are shown in Plates A2 and A3.

[2]Screen test conducted by Technical Dryer Corporation. Results of duplicate test are shown in parentheses. Screening results are included in Appendix E.1.

[3]Arsenic chemical analysis (EPA Method 6010) conducted by Laucks Testing Laboratory. Laboratory reports are included in Appendix E.1.

[4]Duplicate of M4W-4-S.

[5]Duplicate of M4W-16-N.

[6]Duplicate of M4W-3-N.

[7]Sample was composited from 6 to 8 sampling locations on sidewall approximately 8 feet by 12 feet.

TABLE A1
SUMMARY OF ARSENIC ANALYSIS--SOIL SAMPLES[1]
BOEING THOMPSON/ISAACSON SITE

Sample Number	Date Sampled	Time Sampled	Quadrants Sampled	Total Arsenic	
				Screen Test[2] (ppm)	Analytical Results[3] (ppm)
M3W-13-E2	9/18/91	1455	note[4]	4080	--
M3W-13-E3	9/18/91	1500	note[4]	3440	--
M3W-12-S	9/19/91	0930	1,4	105	110
M3W-12-S	9/19/91	0930	1,4	105	110
M3W-11-S	9/19/91	0940	2,3	62 (52)	49
M3W-10-S	9/19/91	0950	2,3	336	--
M3W-10-N	9/19/91	1000	1,4	1060 (2490)	--
M3W-11-N	9/19/91	1010	2,3	3160 (8370)	--
M3W-8-N	9/19/91	1335	2,3	658	--
M3W-9-N	9/19/91	1340	1,3	290	--
M3W-9-S	9/19/91	1345	1,4	258	--
M3W-8-S	9/19/91	1350	2,3	91	83
M3W-7-N	9/19/91	1355	1,4	291 (307)	--
M3W-7-S	9/19/91	1400	2,3	238	--
M3W-6-S	9/20/91	0900	2,3	306	--
M3W-6-N	9/20/91	0905	2,3	28	23
M3W-5-N	9/20/91	0910	1,4	125	150
M3W-5-S	9/20/91	0915	1,4	220	--
M3W-4-N	9/20/91	0920	2,3	20	12
M3W-4-S	9/20/91	0925	1,4	240	--
910920-D1[5]	9/20/91	0935	2,3	22	12
M3W-12-N	9/20/91	1345	1,4	175	200
M3W-12-E1	9/20/91	1350	1,4	287	--
M3W-12-E2[6]	9/20/91	1355	2,3	190	220
M3W-10A-N	9/20/91	1400	2,3	225	--
M3W-11A-N	9/20/91	1545	1,4	294	--
M3W-9A-N	9/20/91	1550	2,3	270	--
M3W-8A-N	9/20/91	1555	2,4	337	270
M3W-7A-N	9/20/91	1600	2,3	484	--
M3W-3-N	9/23/91	0900	1,4	74	93
M3W-3-S	9/23/91	0905	2,3	368	--
M3W-2-N	9/23/91	0910	2,3	101	120
M3W-2-S	9/23/91	0915	1,4	216	--
M3W-1-N	9/23/91	0920	2,4	119	100
M3W-1-S	9/23/91	0925	2,3	207	--
M3W-0-N	9/23/91	0930	1,4	93	110
M3W-0-S	9/23/91	0935	1,4	262	--
M3W-11B-NW	9/24/91	0820	1,4	151	210
M3W-10B-NW	9/24/91	0825	2,3	639	--
M3W-9B-NW	9/24/91	0830	2,3	130	200
M3W-8B-NW	9/24/91	0835	1,4	216	--
M3W-7B-NW	9/24/91	1130	1,3	119	140
M3W-7-E1	9/24/91	1135	1,4	141	200
M3W-7-E2	9/24/91	1140	2,3	88	140

Notes:

[1]Sampling locations are shown in Plates A2 and A3.

[2]Screen test conducted by Technical Dryer Corporation. Results of duplicate test are shown in parentheses. Screening results are presented in Appendix E.1.

[3]Arsenic chemical analysis (EPA Method 6010) conducted by Laucks Testing Laboratory. Laboratory reports are included in Appendix E.1.

[4]Sample was composited from 6 to 8 sampling locations on sidewall approximately 8 feet by 12 feet.

[5]Duplicate of M3W-4-N.

[6]Sample identification is reported as M3W-12-EZ in Laucks' laboratory report.

TABLE A1
SUMMARY OF ARSENIC ANALYSIS--SOIL SAMPLES[1]
BOEING THOMPSON/ISAACSON SITE

Sample Number	Date Sampled	Time Sampled	Quadrants Sampled	Total Arsenic	
				Screen Test[2] (ppm)	Analytical Results[3] (ppm)
M3W-7-E3	9/24/91	1145	2,3	397	--
M3W-0-E1	9/25/91	0715	2,3	146	170
M2W-1-E1	9/25/91	0720	2,3	26	26
M2W-1-E2	9/25/91	0725	1,4	432	--
M2W-1-E3	9/25/91	0730	1,4	515	--
M2W-1-E4	9/25/91	0735	2,3	840	--
M2W-1-E5[4]	9/25/91	0740	1,4	112	110
M2W-1-N	9/25/91	0745	2,4	586	--
M2W-1-S	9/95/91	0750	2,4	18	<5
M2W-2-S	9/25/91	0755	1,3	71	74
M2W-3-S	9/25/91	1200	1,4	74	69
M2W-4-S	9/25/91	1205	1,4	229	--
M2W-2-N	9/25/91	1220	1,3	649	--
M2W-3-N	9/25/91	1225	1,3	601	--
M3W-7-E3A	9/25/91	1535	2,3	3000	--
M2W-4-N	9/26/91	0730	2,3	396	--
M2W-5-N	9/26/91	0735	2,4	96	94
M2W-5-S	9/26/91	0740	2,3	105	110
M2W-6-N	9/26/91	1515	1,4	134	140
M2W-6-S	9/26/91	1520	2,3	433	--
M2W-7-S	9/26/91	1525	1,4	75	73
M2W-8-S	9/26/91	1530	2,3	21	20
M2W-7-N	9/26/91	1535	2,3	133	120
910926-D1[5]	9/26/91	1540	2,3	29	18
M3W-5-E4	9/27/91	0940	1,4	128	110
M3W-5-E3	9/27/91	0945	2,3	267	--
M3W-6A-NW	9/27/91	0950	2,3	58	66
M3W-5A-NW	9/27/91	0955	2,3	102 (113)	120
M3W-5-E1	9/27/91	1000	1,4	120	96
M3W-5-E2[6]	9/27/91	1005	1,4	160	150
M2W-8-N	9/30/91	0745	2,3	663	--
910930-D1[7]	9/30/91	0745	2,3	709	--
M2W-9-S	9/30/91	0750	2,3	33 (30)	26
M2W-10-S	9/30/91	0755	1,4	16	17
M3W-3A-NW	9/30/91	1545	1,4	132	210
M3W-4A-NW	9/30/91	1547	1,4	126	200
M3W-3-E1	9/30/91	1550	2,3	463	--
M3W-3-E2[8]	9/30/91	1552	1,4	129	200
M3W-3-E3	9/30/91	1555	2,3	493	--
M3W-3-E4	9/30/91	1557	1,4	159	230
M2W-9-N	10/1/91	0800	1,3	229	--
M2W-10-N	10/1/91	0805	1,4	655	--

Notes:
[1]Sampling locations are shown in Plates A2 and A3.
[2]Screen test conducted by Technical Dryer Corporation. Results of duplicate test are shown in parentheses. Screening results are presented in Appendix E.1.
[3]Arsenic chemical analysis (EPA Method 6010) conducted by Laucks Testing Laboratory. Laboratory reports are included in Appendix E.1.
[4]Sample identification is reported as M2W-1-ES in Laucks' laboratory report.
[5]Duplicate of M2W-8-S.
[6]Sample identification is reported as M3W-5-EZ in Laucks' laboratory report.
[7]Duplicate of M2W-8-N.
[8]Sample identification is reported as M3W-3-EZ in Laucks' laboratory report.

TABLE A1
SUMMARY OF ARSENIC ANALYSIS--SOIL SAMPLES[1]
BOEING THOMPSON/ISAACSON SITE

Sample Number	Date Sampled	Time Sampled	Quadrants Sampled	Total Arsenic	
				Screen Test[2] (ppm)	Analytical Results[3] (ppm)
M2W-11-S	10/1/91	0810	1,4	23	7
M2W-12-S	10/1/91	0815	2,3	45	26
M2W-11-N	10/1/91	1415	1,4	20	10
M2W-12-N	10/1/91	1420	2,4	621	--
M2W-13-S	10/1/91	1425	2,3	782	--
M2W-14-S	10/1/91	1430	1,4	26 (36)	16
M2W-15-S	10/2/91	0845	1,4	21	16
M2W-13-N	10/2/91	0850	2,3	980	--
M2W-14-N	10/2/91	0855	2,3	858	--
M2W-15-N	10/2/91	1355	2,4	604 (609)	--
M2W-16-N	10/2/91	1400	2,3	171	200
M2W-16-S	10/2/91	1405	1,4	68	54
M2W-17-N	10/3/91	0750	1,3	1760	--
M2W-17-W1	10/3/91	0755	2,3	73	65
M2W-17-W2[4]	10/3/91	0800	2,3	148 (145)	130
M2W-17-W3	10/3/91	0805	1,4	214	--
M2W-17-W4	10/3/91	0810	1,4	96	86
M2W-17-S	10/3/91	0815	2,3	177	190
M3W-0-NW	10/4/91	1005	1,4	259	--
M3W-1-NW	10/4/91	1008	1,3	204	--
M3W-2NW	10/4/91	1012	2,3	851	--
M3W-0-E1	10/4/91	1015	1,4	230	--
M3W-0-E2	10/4/91	1018	1,4	91	120
M3W-0-E3	10/4/91	1022	2,4	203 (206)	--
M3W-0-E4	10/4/91	1025	2,3	227	--
M5W-10AN-W	10/7/91	1435	1,4	460	--
M5W-10A-N	10/7/91	1440	2,3	67 (78)	100
M5W-7A-N	10/8/91	0920	1,4	46 (51)	51
M5W-8A-N	10/8/91	0925	2,3	50	52
M5W-9A-N	10/8/91	0930	2,3	30	40
M5W-11A-N	10/9/91	1145	2,3	45	44
M5W-11AN-W	10/9/91	1150	2,3	190	300
M5W-6A-N	10/9/91	1155	1,4	147	200
M5W-5A-N	10/9/91	1200	2,3	27	23
M5W-4A-N	10/9/91	1205	1,4	92	120
M5W-3A-N	10/9/91	1410	1,4	48	53
M5W-3AN-E	10/9/91	1420	1,4	45	62
911009-D1[5]	10/9/91	1430	1,4	44	55
911009-D2[6]	10/9/91	1440	1,4	53	46
M2W-18-W3	10/10/91	0830	2,3	108	81
M2W-18-S	10/10/91	0835	1,4	198	--
M2W-18-N	10/10/91	0840	2,4	83	92
M2W-18-W4	10/10/91	0845	1,4	201 (236)	--
M2W-18A-E	10/14/91	1535	2,3	262	--

Notes:
[1]Sampling locations are shown in Plates A2 and A3.
[2]Screen test conducted by Technical Dryer Corporation. Results of duplicate test are shown in parentheses. Screening results are presented in Appendix E.1.
[3]Arsenic chemical analysis (EPA Method 6010) conducted by Laucks Testing Laboratory. Laboratory reports are included in Appendix E.1.
[4]Sample identification is reported as M2W-17-WZ in Laucks' laboratory report.
[5]Duplicate of M5W-3AN-E.
[6]Duplicate of M5W-3A-N.

TABLE A1
SUMMARY OF ARSENIC ANALYSIS--SOIL SAMPLES[1]
BOEING THOMPSON/ISAACSON SITE

Sample Number	Date Sampled	Time Sampled	Quadrants Sampled	Total Arsenic	
				Screen Test[2] (ppm)	Analytical Results[3] (ppm)
M2W-18A-S	10/14/91	1540	1,4	111	110
M2W-19-S	10/14/91	1545	1,4	154	180
M2W-19-W4	10/14/91	1550	1,4	261	--
M2W-19-N	10/14/91	1555	1,4	147	160
M5W-14A-N	10/15/91	1110	2,4	28	28
M5W-13A-N	10/15/91	1115	1,4	16	12
M5W-12A-N	10/15/91	1120	1,4	34	44
911015-1[4]	10/15/91	1125	1,4	15	12
M34-1-S	10/15/91	1400	1,3	112 (134)	140
M34-2-N	10/15/91	1405	2,3	200	--
M34-1-N	10/15/91	1410	1,2	249	--
M34-2-E1	10/15/91	1415	1,4	167	240
M34-1-E4	10/15/91	1420	2,3	86	97
M34-2-E2	10/15/91	1425	2,3	91	120
M34-1-E3	10/15/91	1430	1,4	282	114
M3W-2A-S	10/16/91	1100	1,3	166	280
M3W-1A-S	10/16/91	1105	1,4	175	150
M34-2E3-N	10/16/91	1430	2,4	117	150
M34-2-E3	10/16/91	1435	2,3	82	90
M34-2E3-S	10/16/91	1440	1,4	114	110
M3W-0A-S	10/16/91	1445	2,3	500	--
M34-1A-S	10/16/91	1450	1,4	124	150
M34-1AS-E	10/16/91	1455	2,3	183 (199)	250
911016-1[5]	10/16/91	1540	2,3	198	270
M23-1-N	10/17/91	1230	1,4	460	--
M23-2-N	10/17/91	1235	2,3	424	--
M23-2-E1	10/17/91	1240	2,3	372 (374)	--
M23-2-E2	10/17/91	1245	2,3	61 (52)	46
M23-2-E3	10/18/91	0920	1,4	53	62
M23-2-E4	10/18/91	0925	2,3	38	59
M23-2-E5	10/18/91	0930	2,3	14	6
M23-2-S	10/18/91	0935	1,4	76	86
M23-1-S	10/18/91	0940	2,3	28 (33)	30
911018-1[6]	10/18/91	1005	2,3	6	9
M3W-0B-W	10/18/91	1305	2,3	141	150
M3W-0B-S[7]	10/18/91	1310	2,3	158	190
M3W-0B-E	10/18/91	1315	2,3	122 (99)	130
M34-2A-S	10/18/91	1320	1,4	315	--
M34-2A-E	10/18/91	1325	1,4	135	160
M34-2AS-N	10/18/91	1330	2,3	32 (24)	36
M2W-13AS-E	10/18/91	1415	1,4	66	60
M2W-13A-S	10/18/91	1420	2,3	72	79
M2W-13-AS-W	10/18/91	1425	2,3	48	46

Notes:
[1]Sampling locations are shown in Plates A2 and A3.
[2]Screen test conducted by Technical Dryer Corporation. Results of duplicate test are shown in parentheses. Screening results are presented in Appendix E.1.
[3]Arsenic chemical analysis (EPA Method 6010) conducted by Laucks Testing Laboratory. Laboratory reports are included in Appendix E.1.
[4]Duplicate of M5W-13A-N.
[5]Duplicate of M34-1AS-E.
[6]Duplicate of M23-2-E5.
[7]Sample identification is reported as M34-0B-S in Laucks' laboratory report.

TABLE A1
SUMMARY OF ARSENIC ANALYSIS--SOIL SAMPLES[1]
BOEING THOMPSON/ISAACSON SITE

Sample Number	Date Sampled	Time Sampled	Quadrants Sampled	Total Arsenic	
				Screen Test[2] (ppm)	Analytical Results[3] (ppm)
M2W-6AS-E	10/18/91	1430	2,3	42	45
M2W-6AS-S	10/18/91	1435	1,4	57	43
M2W-6AS-W	10/18/91	1440	2,3	71	78
M2W-4AS-W	10/18/91	1445	1,4	39 (40)	33
M2W-4AS-S	10/18/91	1450	2,3	39 (39)	33
M2W-4AS-E	10/18/91	1455	2,3	18	11
911018-2[4]	10/18/91	1500	1,4	33	31
M2W-17AS-E	10/18/91	1605	1,4	53	47
M2W-17AS-S	10/18/91	1610	2,3	41 (34)	41
M3W-2B-S	10/21/91	1315	1,3	66	71
M3W-2B-W	10/21/91	1320	2,4	276	--
M34-1B-S	10/21/91	1325	2,3	46	44
M34-2B-S	10/21/91	1330	1,4	20	17
M34-2B-E	10/21/91	1335	1,4	109	130
M2W-20A-S	10/21/91	1340	2,3	223 (244)	--
M2W-20A-W	10/21/01	1345	2,3	326	--
M34-3E1-N	10/22/91	0930	2,3	399	--
M34-3E1-E	10/22/91	0935	1,4	440	--
M34-3E1-S	10/22/91	0940	2,4	108	110
M2W-20-W	10/22/91	0945	2,3	67 (69)	64
M2W-20-N	10/22/91	0950	1,3	66	63
M2W-19A-S	10/22/91	0955	1,4	226	--
M23-3E1-N	10/22/91	1005	1,4	76	64
M23-3E1-E	10/22/91	1010	1,4	97	77
M23-3E1-S	10/22/91	1015	1,3	165	150
M34-8A-S	10/22/91	1455	2,3	155	170
M34-8A-W	10/22/91	1500	1,4	152	150
M34-8A-N	10/22/91	1505	1,4	350	--
M5W-11A-S	10/24/91	1000	1,4	55	90
M5W-10A-S	10/24/91	1005	1,3	65 (62)	62
M5W-7A-S	10/25/91	0955	2,3	59	110
M4W-22A-S	10/25/91	1000	1,4	40	45
M4W-12A-S	10/25/91	1005	1,3	45 (46)	53
TM3W-9A-S	10/28/91	1100	1,3	316	--
TM3W-7A-S	10/28/91	1105	1,4	548	--
TM3W-6A-S	10/28/91	1110	2,3	318	--
TM3W-5A-S	10/28/91	1115	1,4	288	--
TM3W-4A-S	10/28/91	1120	2,4	117	120
TM3W-3A-S	10/28/91	1125	1,4	159 (173)	180
911028-D[5]	10/28/91	1125	1,4	183	200
TM3W-10A-S	10/28/91	1500	1,4	273	--
TM3W-6A-S2	10/31/91	1355	1,3	85	94
TM3W-5A-S2[6]	10/31/91	1400	2,3	40	44
TM3W-10A-S2	11/01/91	1315	1,4	185	190

Notes:
[1]Sampling locations are shown in Plates A2 and A3.
[2]Screen test conducted by Technical Dryer Corporation. Results of duplicate test are shown in parentheses. Screening results are presented in Appendix E.1.
[3]Arsenic chemical analysis (EPA Method 6010) conducted by Laucks Testing Laboratory. Laboratory reports are included in Appendix E.1.
[4]Duplicate of M2W-4AS-W.
[5]Duplicate of TM3W-3A-S.
[6]Sample identification is reported as TM3W-5A-52 on Laucks' laboratory report.

TABLE A1
SUMMARY OF ARSENIC ANALYSIS--SOIL SAMPLES[1]
BOEING THOMPSON/ISAACSON SITE

Sample Number	Date Sampled	Time Sampled	Quadrants Sampled	Total Arsenic	
				Screen Test[2] (ppm)	Analytical Results[3] (ppm)
TM3W-9A-S2	11/01/91	1320	2,3	183	270
TM3W-7A-S2	11/01/91	1325	1,4	200	230
TM3W-8A-S	11/04/91	1105	1,4	171	220
TM4W-5D-E	11/04/01	1110	1,4	140	170
TM4W-5E-E	11/04/91	1115	2,3	282	--
TM4W-5F-E	11/04/91	1120	2,3	10	11
M34-3E1-S2	11/04/91	1415	1,4	104	140
M34-3E1-E2	11/04/91	1420	2,3	104	110
M34-3E1-N2	11/04/91	1425	2,3	180 (175)	230
M34-8B-N	11/05/91	0920	2,3	81	96
M34-8B-W	11/05/91	0925	1,4	107 (133)	150
TM4W-5A-E	11/06/91	1100	2,3	49	61
TM4W-5B-E	11/06/91	1105	1,4	73	85
TM4W-5B-S	11/06/91	1110	2,3	14	17
911106-D[4]	11/06/91	1230	2,3	55	67
TM4W-4E-E	11/06/91	1415	2,3	133	590
TM4W-4E-S	11/06/91	1420	2,3	10	5
TM4W-4E-N	11/06/91	1425	2,3	510	--
M2W-19B-E	11/07/91	1240	1,4	43	22
M2W-19B-S	11/07/91	1245	1,4	26	22
M2W-20B-S	11/07/91	1250	2,3	43	28
M2W-20B-W	11/07/91	1255	2,3	31	26
TM3W-7B-E	11/08/91	0840	1,4	101	130
TM3W-7B-S	11/08/91	0845	2,3	83	91
TM3W-8B-S	11/08/91	0850	2,3	68	73
TM3W-9B-S	11/08/91	0855	2,3	63 (70)	67
TM3W-9B-W	11/08/91	0900	2,3	28	22
TM4W-4D-E	11/08/91	1040	1,4	359	--
TM4W-4D-N	11/08/91	1045	2,3	335	--
911108-D[5]	11/08/91	1045	2,3	422	--
TM4W-4C-W	11/11/91	1310	2,3	503	--
TM4W-4C-N	11/11/91	1315	1,4	605	--
TM4W-4C-E	11/11/91	1320	1,4	241 (258)	--
TM4W-3D-N	11/11/91	1325	1,4	1020	--
TM4W-3D-E	11/11/91	1330	2,3	609	--
TM4W-3D-S	11/11/91	1335	1,4	343	--
911112-1[6]	11/12/91	1105	east end	582	--
911112-2[6]	11/12/91	1108	center	449	--
911112-3[6]	11/12/91	1110	west end	194	--
911112-4[6]	11/12/91	1112	east end	883	--
911112-5[6]	11/12/91	1115	center	232	--
911112-6[6]	11/12/91	1118	west end	145	210
911112-7[6]	11/12/91	1120	center	623	--

Notes:

[1]Sampling locations are shown in Plates A2 and A3.

[2]Screen test conducted by Technical Dryer Corporation. Results of duplicate test are shown in parentheses. Screening results are presented in Appendix E.1.

[3]Arsenic chemical analysis (EPA Method 6010) conducted by Laucks Testing Laboratory. Laboratory reports are included in Appendix E.1.

[4]Duplicate of TM4W-5A-E.

[5]Duplicate of TM4W-4D-N.

[6]The 911112 sample identification series were obtained for a characterization study of the soil type and corresponding arsenic concentration from cells TM4W-3D and -4C. Sample locations are not shown in Plates A2 and A3.

TABLE A1
SUMMARY OF ARSENIC ANALYSIS--SOIL SAMPLES[1]
BOEING THOMPSON/ISAACSON SITE

Sample Number	Date Sampled	Time Sampled	Quadrants Sampled	Total Arsenic	
				Screen Test[2] (ppm)	Analytical Results[3] (ppm)
911112-8[4]	11/12/91	1123	east end	3580	–
911112-9[4]	11/12/91	1125	center	1070	–
911112-10[4]	11/12/91	1128	west end	1260	–
911112-11[4]	11/12/19	1130	center	511	–
911112-12[4]	11/12/91	1140	east end	323	–
911112-13[4]	11/12/91	1145	west end	195	–
911112-14[4]	11/12/91	1150	center	404	–
TM4W-3E-S	11/14/91	1400	1,4	22	18
TM4W-3E-E	11/14/91	1405	2,3	19	11
TM4W-2D-S	11/14/91	1410	2,3	213	–
TM4W-2D-E	11/14/91	1415	1,4	208	–
TM4W-2D-N	11/14/91	1420	2,3	1260	–
TM4W-3C-E	11/14/91	1425	1,4	356	–
TM4W-3C-N	11/14/91	1430	1,4	957	–
911114-D[5]	11/14/91	1510	1,4	28	19
TM4W-4C2-E	11/15/91	1230	1,4	281	–
TM4W-13.5K-W	11/18/91	1320	2,3	58	150
TM4W-13.5J[6]	11/18/91	1325	2,4	83	180
TM4W-13H-W	11/19/91	0930	2,3	226	–
TM4W-13G-W	11/19/91	0935	2,3	964	–
TM4W-13F-W	11/19/91	1245	1,4	181	240
TM4W-13E-W	11/19/91	1250	2,3	199	220
TM4W-2C-E	11/20/91	1250	1,4	681	–
TM4W-2C-N	11/20/91	1255	2,3	102	200
TM4W-3C2-N	11/20/91	1300	2,3	30	42
TM4W-3C2-E	11/20/91	1305	1,4	33	54
TM4W-1C-S	11/21/91	0940	1,4	115	170
TM4W-1C-E	11/21/91	0945	1,4	100	140
TM4W-1C-N	11/21/91	0950	2,3	89	130
TM4W-13.5G-W	11/21/91	0955	2,3	429	–
TM4W-13.5H-W	11/21/91	1000	2,3	290	–
911121-1[7]	11/21/91	1030	1,4	143	140
TM4W-14H-S	11/25/91	1020	2,4	162	200
TM4W-14H-W	11/25/91	1025	1,4	141	160
TM4W-14G-W	11/25/91	1030	2,3	243	–
TM4W-14G-N	11/25/91	1035	1,3	20	17
TM4W-13.5F-W	11/25/91	1040	1,4	135	170
TM4W-13.5E-W	11/25/91	1045	2,3	35	37
TM4W-2.5D-E	11/25/91	1250	2,3	117	140
TM4W-3E1-S	11/25/91	1255	1,4	168	180
TM4W-14.5G-S	11/26/91	1000	2,4	96	120
TM4W-14.5G-W	11/26/91	1005	2,3	65	77
TM4W-14.5G-N	11/26/91	1015	1,3	36	32

Notes:
[1]Sampling locations are shown in Plates A2 and A3.
[2]Screen test conducted by Technical Dryer Corporation. Screening results are included in Appendix E.1.
[3]Arsenic chemical analysis (EPA Method 6010) conducted by Laucks Testing Laboratory. Laboratory reports are included in Appendix E.1.
[4]The 911112 sample identification series were obtained for a characterization study of the soil type and corresponding arsenic concentration from cells TM4W-3D and -4C. Sample locations are not shown in Plates A2 and A3.
[5]Duplicate of TM4W-3E-S.
[6]Sample identification is reported as M4W-13.5J in Laucks' laboratory report.
[7]Duplicate of TM4W-1C-S.

TABLE B-2
Summary of Post-Treatment Results
TCLP Metals (mg/L)

Sample Number	Date Collected	Arsenic	Barium	Chromium	Copper	Nickel	Lead	Zinc
BIP-913-1	09/13/91	0.33	1.0 U	0.10 U	0.37	0.10 U	0.20 U	0.10 U
BIP-913-2	09/13/91	0.20 U	1.0 U	0.10 U	0.29	0.10 U	0.20 U	0.10 U
BIP-913-3	09/13/91	0.20 U	1.0 U	0.10 U	0.25	0.10 U	0.20 U	0.10 U
BIP-913-4	09/13/91	0.20 U	1.0 U	0.10 U	0.20	0.10 U	0.20 U	0.10 U
BIP-913-5	09/13/91	0.20 U	1.0 U	0.10 U	0.20	0.10 U	0.20 U	0.10 U
BIP-913-6	09/13/91	0.20 U	1.0 U	0.10 U	0.25	0.10 U	0.20 U	0.10 U
BIP-913-7	09/13/91	0.20 U	1.0 U	0.10 U	0.29	0.10 U	0.20 U	0.10 U
BIP-913-8	09/13/91	0.20 U	1.0 U	0.10 U	0.31	0.10 U	0.20 U	0.10 U
BIP-913-9	09/13/91	0.20 U	1.0 U	0.10 U	0.29	0.10 U	0.20 U	0.10 U
BIP-913-D	09/13/91	0.20 U	1.0 U	0.10 U	0.21	0.10 U	0.20 U	0.10 U
BIP-916-1	09/16/91	0.20 U	1.0 U	0.10 U	0.28	0.10 U	0.20 U	0.10 U
BIP-916-2	09/16/91	0.20 U	1.0 U	0.10 U	0.26	0.10 U	0.20 U	0.10 U
BIP-916-3	09/16/91	0.20 U	1.0 U	0.10 U	0.20	0.10 U	0.20 U	0.10 U
BIP-916-4	09/16/91	0.20 U	1.0 U	0.10 U	0.22	0.10 U	0.20 U	0.10 U
BIP-916-5	09/16/91	0.20 U	1.0 U	0.10 U	0.26	0.10 U	0.20 U	0.10 U
BIP-916-6	09/16/91	0.20 U	1.0 U	0.10 U	0.32	0.10 U	0.20 U	0.10 U
BIP-916-7	09/16/91	0.20 U	1.0 U	0.10 U	0.29	0.10 U	0.20 U	0.10 U
BIP-916-8	09/16/91	0.20 U	1.0 U	0.10 U	0.23	0.10 U	0.20 U	0.10 U
BIP-916-9	09/16/91	0.20 U	1.0 U	0.10 U	0.23	0.10 U	0.20 U	0.10 U
BIP-916-D	09/16/91	0.21	1.0 U	0.10 U	0.25	0.10 U	0.20 U	0.10 U
BIP-917-1	09/17/91	0.23	1.0 U	0.10 U	0.35	0.10 U	0.20 U	0.10 U
BIP-917-2	09/17/91	0.20 U	1.0 U	0.10 U	0.28	0.10 U	0.20 U	0.10 U
BIP-917-3	09/17/91	0.23	1.0 U	0.10 U	0.32	0.10 U	0.20 U	0.10 U
BIP-917-4	09/17/91	0.20 U	1.0 U	0.10 U	0.24	0.10 U	0.20 U	0.10 U
BIP-917-5	09/17/91	0.20 U	1.0 U	0.10 U	0.23	0.10 U	0.20 U	0.10 U
BIP-917-6	09/17/91	0.20 U	1.0 U	0.10 U	0.22	0.10 U	0.20 U	0.10 U
BIP-917-7	09/17/91	0.20 U	1.0 U	0.10 U	0.29	0.10 U	0.20 U	0.10 U
BIP-917-8	09/17/91	0.20 U	1.0 U	0.10 U	0.31	0.10 U	0.20 U	0.10 U
BIP-917-9	09/17/91	0.27	1.0 U	0.10 U	0.30	0.10 U	0.20 U	0.10 U
BIP-917-D	09/17/91	0.20 U	1.0 U	0.10 U	0.26	0.10 U	0.20 U	0.10 U
BIP-918-1	09/18/91	0.20	1.0 U	0.10 U	0.32	0.10 U	0.20 U	0.10 U
BIP-918-2	09/18/91	0.20 U	1.0 U	0.10 U	0.15	0.10 U	0.20 U	0.10 U
BIP-918-3	09/18/91	0.24	1.0 U	0.10 U	0.32	0.10 U	0.20 U	0.10 U
BIP-918-4	09/18/91	0.20 U	1.0 U	0.10 U	0.28	0.10 U	0.20 U	0.10 U
BIP-918-5	09/18/91	0.20 U	1.0 U	0.10 U	0.23	0.10 U	0.20 U	0.10 U
BIP-918-6	09/18/91	0.20 U	1.0 U	0.10 U	0.21	0.10 U	0.20 U	0.10 U
BIP-918-7	09/18/91	0.20 U	1.0 U	0.10 U	0.26	0.10 U	0.20 U	0.10 U
BIP-918-8	09/18/91	0.20 U	1.0 U	0.10 U	0.22	0.10 U	0.20 U	0.10 U
BIP-918-9	09/18/91	0.21	1.0 U	0.10 U	0.29	0.10 U	0.20 U	0.10 U
BIP-918-D	09/18/91	0.20 U	1.0 U	0.10 U	0.24	0.10 U	0.20 U	0.10 U
BIP-919-1	09/19/91	0.20 U	1.0 U	0.10 U	0.27	0.10 U	0.20 U	0.10 U
BIP-919-2	09/19/91	0.20 U	1.0 U	0.10 U	0.21	0.10 U	0.20 U	0.10 U
BIP-919-3	09/19/91	0.20 U	1.0 U	0.10 U	0.23	0.10 U	0.20 U	0.10 U
BIP-919-4	09/19/91	0.20 U	1.0 U	0.10 U	0.22	0.10 U	0.20 U	0.10 U
BIP-919-5	09/19/91	0.20 U	1.0 U	0.10 U	0.26	0.10 U	0.20 U	0.10 U
BIP-919-6	09/19/91	0.20 U	1.0 U	0.10 U	0.27	0.10 U	0.20 U	0.10 U
BIP-919-7	09/19/91	0.20 U	1.0 U	0.10 U	0.20	0.10 U	0.20 U	0.10 U
BIP-919-8	09/19/91	0.20 U	1.0 U	0.10 U	0.18	0.10 U	0.20 U	0.10 U
BIP-919-9	09/19/91	0.20 U	1.0 U	0.10 U	0.18	0.10 U	0.20 U	0.10 U
BIP-919-D	09/20/91	0.20 U	1.0 U	0.10 U	0.25	0.10 U	0.20 U	0.10 U
BIP-920-1	09/20/91	0.20 U	1.0 U	0.10 U	0.16	0.10 U	0.20 U	0.10 U
BIP-920-2	09/20/91	0.20 U	1.0 U	0.10 U	0.15	0.10 U	0.20 U	0.10 U
BIP-920-3	09/20/91	0.20 U	1.0 U	0.10 U	0.11	0.10 U	0.20 U	0.10 U
BIP-920-4	09/20/91	0.20 U	1.0 U	0.10 U	0.18	0.10 U	0.20 U	0.10 U
BIP-920-5	09/20/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U
BIP-920-6	09/20/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U
BIP-920-7	09/20/91	0.20 U	1.0 U	0.10 U	0.14	0.10 U	0.20 U	0.10 U
BIP-920-8	09/20/91	0.20 U	1.0 U	0.10 U	0.22	0.10 U	0.20 U	0.10 U
BIP-920-9	09/20/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-920-D	09/20/91	0.20 U	1.0 U	0.10 U	0.17	0.10 U	0.20 U	0.10 U

TABLE B-2
Summary of Post-Treatment Results
TCLP Metals (mg/L)

Sample Number	Date Collected	Arsenic	Barium	Chromium	Copper	Nickel	Lead	Zinc
BIP-923-1	09/23/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-923-2	09/23/91	0.20 U	1.0 U	0.10 U	0.19	0.10 U	0.20 U	0.10 U
BIP-923-3	09/23/91	0.20 U	1.0 U	0.10 U	0.17	0.10 U	0.20 U	0.10 U
BIP-923-4	09/23/91	0.20 U	1.0 U	0.10 U	0.11	0.10 U	0.20 U	0.10 U
BIP-923-5	09/23/91	0.20 U	1.0 U	0.10 U	0.15	0.10 U	0.20 U	0.10 U
BIP-923-6	09/23/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U
BIP-923-7	09/23/91	0.20 U	1.0 U	0.10 U	0.18	0.10 U	0.20 U	0.10 U
BIP-923-8	09/23/91	0.20 U	1.0 U	0.10 U	0.11	0.10 U	0.20 U	0.10 U
BIP-923-9	09/23/91	0.20 U	1.0 U	0.10 U	0.14	0.10 U	0.20 U	0.10 U
BIP-923-D	09/23/91	0.20 U	1.0 U	0.10 U	0.14	0.10 U	0.20 U	0.10 U
BIP-924-1	09/24/91	0.20 U	1.0 U	0.10 U	0.22	0.10 U	0.20 U	0.10 U
BIP-924-2	09/24/91	0.20 U	1.0 U	0.10 U	0.20	0.10 U	0.20 U	0.10 U
BIP-924-3	09/24/91	0.20 U	1.0 U	0.10 U	0.18	0.10 U	0.20 U	0.10 U
BIP-924-4	09/24/91	0.20 U	1.0 U	0.10 U	0.18	0.10 U	0.20 U	0.10 U
BIP-924-5	09/24/91	0.20 U	1.0 U	0.10 U	0.18	0.10 U	0.20 U	0.10 U
BIP-924-6	09/24/91	0.20 U	1.0 U	0.10 U	0.14	0.10 U	0.20 U	0.10 U
BIP-924-7	09/24/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-924-8	09/24/91	0.20 U	1.0 U	0.10 U	0.11	0.10 U	0.20 U	0.10 U
BIP-924-9	09/24/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-924-D	09/24/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-926-1	09/26/91	0.20 U	1.0 U	0.10 U	0.14	0.10 U	0.20 U	0.10 U
BIP-926-2	09/26/91	0.20 U	1.0 U	0.10 U	0.15	0.10 U	0.20 U	0.10 U
BIP-926-3	09/26/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U
BIP-926-4	09/26/91	0.20 U	1.0 U	0.10	0.15	0.10 U	0.20 U	0.10 U
BIP-926-5	09/26/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-926-6	09/26/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-926-7	09/26/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-926-8	09/26/91	0.20 U	1.0 U	0.11	0.11	0.10 U	0.20 U	0.10 U
BIP-926-9	09/26/91	0.20 U	1.0 U	0.11	0.10 U	0.10 U	0.20 U	0.10 U
BIP-926-D	09/26/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U
BIP-927-1	09/27/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-927-2	09/27/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-927-3	09/27/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-927-4	09/27/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-927-5	09/27/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-927-6	09/27/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-927-7	09/27/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U
BIP-927-8	09/27/91	0.20 U	1.0 U	0.10 U	0.11	0.10 U	0.20 U	0.10 U
BIP-927-9	09/27/91	0.20 U	1.0 U	0.10 U	0.10	0.10 U	0.20 U	0.10 U
BIP-927-D	09/27/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-930-1	09/30/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-930-2	09/30/91	0.20 U	1.0 U	0.10 U	0.10	0.10 U	0.20 U	0.10 U
BIP-930-3	09/30/91	0.20 U	1.0 U	0.11	0.10	0.10 U	0.20 U	0.10 U
BIP-930-4	09/30/91	0.20 U	1.0 U	0.12	0.10 U	0.10 U	0.20 U	0.10 U
BIP-930-5	09/30/91	0.20 U	1.0 U	0.11	0.10 U	0.10 U	0.20 U	0.10 U
BIP-930-6	09/30/91	0.20 U	1.0 U	0.10	0.12	0.10 U	0.20 U	0.10 U
BIP-930-7	09/30/91	0.20 U	1.0 U	0.10	0.11	0.10 U	0.20 U	0.10 U
BIP-930-8	09/30/91	0.20 U	1.0 U	0.11	0.12	0.10 U	0.20 U	0.10 U
BIP-930-9	09/30/91	0.20 U	1.0 U	0.10	0.10	0.10 U	0.20 U	0.10 U
BIP-930-D	09/30/91	0.20 U	1.0 U	0.10	0.10	0.10 U	0.20 U	0.10 U
BIP-101-1	10/01/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-101-2	10/01/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-101-3	10/01/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U
BIP-101-4	10/01/91	0.20 U	1.0 U	0.10 U	0.19	0.10 U	0.20 U	0.10 U
BIP-101-5	10/01/91	0.20 U	1.0 U	0.10 U	0.11	0.10 U	0.20 U	0.10 U
BIP-101-6	10/01/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-101-7	10/01/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-101-8	10/01/91	0.20 U	1.0 U	0.10 U	0.11	0.10 U	0.20 U	0.10 U
BIP-101-9	10/01/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-101-D	10/01/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U

TABLE B-2
Summary of Post-Treatment Results
TCLP Metals (mg/L)

Sample Number	Date Collected	Arsenic	Barium	Chromium	Copper	Nickel	Lead	Zinc
BIP-102-1	10/02/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-102-2	10/02/91	0.20 U	1.0 U	0.10	0.11	0.10 U	0.20 U	0.10 U
BIP-102-3	10/02/91	0.20 U	1.0 U	0.10	0.10 U	0.10 U	0.20 U	0.10 U
BIP-102-4	10/02/91	0.20 U	1.0 U	0.10	0.10 U	0.10 U	0.20 U	0.10 U
BIP-102-5	10/02/91	0.20 U	1.0 U	0.10	0.10 U	0.10 U	0.20 U	0.10 U
BIP-102-6	10/02/91	0.20 U	1.0 U	0.10	0.13	0.10 U	0.20 U	0.10 U
BIP-102-7	10/02/91	0.20 U	1.0 U	0.10	0.13	0.10 U	0.20 U	0.10 U
BIP-102-8	10/02/91	0.20 U	1.0 U	0.10 U	0.10	0.10 U	0.20 U	0.10 U
BIP-102-9	10/02/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U
BIP-102-D	10/02/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-103-1	10/03/91	0.20 U	1.0 U	0.10 U	0.21	0.10 U	0.20 U	0.10 U
BIP-103-2	10/03/91	0.20 U	1.0 U	0.10 U	0.22	0.10 U	0.20 U	0.10 U
BIP-103-3	10/03/91	0.20 U	1.0 U	0.10 U	0.15	0.10 U	0.20 U	0.10 U
BIP-103-4	10/03/91	0.20 U	1.0 U	0.10 U	0.16	0.10 U	0.20 U	0.10 U
BIP-103-5	10/03/91	0.20 U	1.0 U	0.10 U	0.15	0.10 U	0.20 U	0.10 U
BIP-103-6	10/03/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U
BIP-103-7	10/03/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U
BIP-103-8	10/03/91	0.20 U	1.0 U	0.10 U	0.16	0.10 U	0.20 U	0.10 U
BIP-103-9	10/03/91	0.20 U	1.0 U	0.10 U	0.11	0.10 U	0.20 U	0.10 U
BIP-103-D	10/03/91	0.20 U	1.0 U	0.10 U	0.19	0.10 U	0.20 U	0.10 U
BIP-104-1	10/04/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-104-2	10/04/91	0.20 U	1.0 U	0.10 U	0.22	0.10 U	0.20 U	0.10 U
BIP-104-3	10/04/91	0.20 U	1.0 U	0.10 U	0.17	0.10 U	0.20 U	0.10 U
BIP-104-4	10/04/91	0.20 U	1.0 U	0.10 U	0.19	0.10 U	0.20 U	0.10 U
BIP-104-5	10/04/91	0.20 U	1.0 U	0.10 U	0.16	0.10 U	0.20 U	0.10 U
BIP-104-6	10/04/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-104-7	10/04/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U
BIP-104-8	10/04/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U
BIP-104-9	10/04/91	0.20 U	1.0 U	0.10 U	0.18	0.10 U	0.20 U	0.10 U
BIP-104-D	10/04/91	0.21	1.0 U	0.10 U	0.18	0.10 U	0.20 U	0.10 U
BIP-107-1	10/07/91	0.20 U	1.0 U	0.15	0.10	0.10 U	0.20 U	0.10 U
BIP-107-2	10/07/91	0.20 U	1.0 U	0.12	0.11	0.10 U	0.20 U	0.10 U
BIP-107-3	10/07/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-107-4	10/07/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-107-5	10/07/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-107-6	10/07/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-107-7	10/07/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-107-8	10/07/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-107-9	10/07/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-107-D	10/07/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-109-1	10/09/91	0.20 U	1.0 U	0.10 U	0.26	0.10 U	0.20 U	0.10 U
BIP-109-2	10/09/91	0.20 U	1.0 U	0.10 U	0.17	0.10 U	0.20 U	0.10 U
BIP-109-3	10/09/91	0.20 U	1.0 U	0.10 U	0.20	0.10 U	0.20 U	0.10 U
BIP-109-4	10/09/91	0.20 U	1.0 U	0.10 U	0.25	0.10 U	0.20 U	0.10 U
BIP-109-5	10/09/91	0.20 U	1.0 U	0.10 U	0.27	0.10 U	0.20 U	0.10 U
BIP-109-D	10/09/91	0.20 U	1.0 U	0.10 U	0.24	0.10 U	0.20 U	0.10 U
BIP-1010-1	10/10/91	0.20 U	1.0 U	0.10 U	0.32	0.10 U	0.20 U	0.10 U
BIP-1010-2	10/10/91	0.20 U	1.0 U	0.10 U	0.31	0.10 U	0.20 U	0.10 U
BIP-1010-3	10/10/91	0.20 U	1.0 U	0.10 U	0.20	0.10 U	0.20 U	0.10 U
BIP-1010-4	10/10/91	0.20 U	1.0 U	0.10 U	0.25	0.10 U	0.20 U	0.10 U
BIP-1010-5	10/10/91	0.20 U	1.0 U	0.10 U	0.27	0.10 U	0.20 U	0.10 U
BIP-1010-6	10/10/91	0.20 U	1.0 U	0.10 U	0.26	0.10 U	0.20 U	0.10 U
BIP-1010-7	10/10/91	0.20 U	1.0 U	0.10 U	0.20	0.10 U	0.20 U	0.10 U
BIP-1010-8	10/10/91	0.20 U	1.0 U	0.10 U	0.23	0.10 U	0.20 U	0.10 U
BIP-1010-9	10/10/91	0.20 U	1.0 U	0.10 U	0.22	0.10 U	0.20 U	0.10 U
BIP-1010-D	10/10/91	0.20 U	1.0 U	0.10 U	0.22	0.10 U	0.20 U	0.10 U

TABLE B-2
Summary of Post-Treatment Results
TCLP Metals (mg/L)

Sample Number	Date Collected	Arsenic	Barium	Chromium	Copper	Nickel	Lead	Zinc
BIP-1014-1	10/14/91	0.20 U	1.0 U	0.10 U	0.20	0.10 U	0.20 U	0.10 U
BIP-1014-2	10/14/91	0.20 U	1.0 U	0.10 U	0.20	0.10 U	0.20 U	0.10 U
BIP-1014-3	10/14/91	0.20 U	1.0 U	0.10 U	0.17	0.10 U	0.20 U	0.10 U
BIP-1014-4	10/14/91	0.20 U	1.0 U	0.10 U	0.15	0.10 U	0.20 U	0.10 U
BIP-1014-5	10/14/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1014-6	10/14/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-1014-7	10/14/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1014-8	10/14/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1014-9	10/14/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U
BIP-1014-D	10/14/91	0.20 U	1.0 U	0.10 U	0.17	0.10 U	0.20 U	0.10 U
BIP-1015-1	10/15/91	0.20 U	1.0 U	0.10 U	0.10	0.10 U	0.20 U	0.10 U
BIP-1015-2	10/15/91	0.20 U	1.0 U	0.10 U	0.11	0.10 U	0.20 U	0.10 U
BIP-1015-3	10/15/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1015-4	10/15/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1015-5	10/15/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1015-6	10/15/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1015-7	10/15/91	0.20 U	1.0 U	0.10 U	0.10	0.10 U	0.20 U	0.10 U
BIP-1015-8	10/15/91	0.20 U	1.0 U	0.10 U	0.10	0.10 U	0.20 U	0.10 U
BIP-1015-9	10/16/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U
BIP-1015-D	10/16/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1016-1	10/16/91	0.20 U	1.0 U	0.10 U	0.11	0.10 U	0.20 U	0.10 U
BIP-1016-2	10/16/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U
BIP-1016-3	10/16/91	0.20 U	1.0 U	0.10 U	0.11	0.10 U	0.20 U	0.10 U
BIP-1016-4	10/16/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-1016-5	10/16/91	0.20 U	0.10 U	0.10 U	0.14	0.10 U	0.20 U	0.10 U
BIP-1016-6	10/16/91	0.20 U	0.10 U	0.10 U	0.17	0.10 U	0.20 U	0.10 U
BIP-1016-7	10/16/91	0.20 U	0.10 U	0.10 U	0.15	0.10 U	0.20 U	0.10 U
BIP-1016-8	10/16/91	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1016-9	10/16/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1016-D	10/16/91	0.20 U	1.0 U	0.10 U	0.17	0.10 U	0.20 U	0.10 U
BIP-1018-1	10/18/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1018-2	10/18/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1018-3	10/18/91	0.20 U	1.0 U	0.10 U	0.10	0.10 U	0.20 U	0.10 U
BIP-1018-4	10/18/91	0.20 U	1.0 U	0.10 U	0.10	0.10 U	0.20 U	0.10 U
BIP-1018-5	10/18/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1018-6	10/18/91	0.20 U	1.0 U	0.10 U	0.11	0.10 U	0.20 U	0.10 U
BIP-1018-7	10/18/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1018-8	10/18/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1018-9	10/18/91	0.20 U	1.0 U	0.10 U	0.14	0.10 U	0.20 U	0.10 U
BIP-1018-D	10/18/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U
BIP-1021-1	10/21/91	0.20 U	1.0 U	0.10	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1021-2	10/21/91	0.20 U	1.0 U	0.11	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1021-3	10/21/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1021-4	10/21/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1021-5	10/21/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1021-D	10/21/91	0.20 U	1.0 U	0.12	0.13	0.10 U	0.20 U	0.10 U
BIP-1022-1	10/22/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1022-2	10/22/91	0.20 U	1.0 U	0.11	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1022-3	10/22/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1022-4	10/22/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1022-5	10/22/91	0.20 U	1.0 U	0.12	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1022-D	10/22/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U

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TABLE B-2
Summary of Post-Treatment Results
TCLP Metals (mg/L)

Sample Number	Date Collected	Arsenic	Barium	Chromium	Copper	Nickel	Lead	Zinc
BIP-1023-1	10/23/91	0.20 U	1.0 U	0.13	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1023-2	10/23/91	0.20 U	1.0 U	0.10 U	0.11	0.10 U	0.20 U	0.10 U
BIP-1023-3	10/23/91	0.20 U	1.0 U	0.10 U	0.11	0.10 U	0.20 U	0.10 U
BIP-1023-4	10/23/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1023-5	10/23/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1023-D	10/23/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1024-1	10/24/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-1024-2	10/24/91	0.20 U	1.0 U	0.10 U	0.10	0.10 U	0.20 U	0.10 U
BIP-1024-3	10/24/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-1024-4	10/24/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-1024-5	10/24/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1024-D	10/24/91	0.20 U	1.0 U	0.10 U	0.11	0.10 U	0.20 U	0.10 U
BIP-1028-1	10/28/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1028-2	10/28/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1028-3	10/28/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1028-4	10/28/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1028-5	10/28/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1028-6	10/28/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1028-7	10/28/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1028-8	10/28/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1028-9	10/28/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1028-10	10/28/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1028-11	10/28/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1028-D	10/28/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1106-1	11/06/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1106-2	11/06/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1106-3	11/06/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1107-1	11/07/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1107-2	11/07/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1107-3	11/07/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1107-4	11/07/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1107-5	11/07/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1107-6	11/07/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1107-7	11/07/91	0.20 U	1.0 U	0.10	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1107-8	11/07/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1107-9	11/07/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1107-10	11/07/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1107-11	11/07/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-1107-D	11/07/91	0.20 U	1.0 U	0.10 U	0.10	0.10 U	0.20 U	0.10 U
BIP-1108-1	11/08/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIP-1108-2	11/08/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1108-3	11/08/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1108-4	11/08/91	0.20 U	1.0 U	0.10 U	0.11	0.10 U	0.20 U	0.10 U
BIP-1108-5	11/08/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1108-6	11/08/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1108-7	11/08/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIP-1108-8	11/08/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U

(a) BIP-909-1 and BIP-909-2 are the same sample.
U Compound analyzed for but not detected at the given detection limit.

NOTES:
Samples analyzed by Chempro.

01/27/92
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TABLE B-3
Summary of Cure Area Results
TCLP Metals (mg/L)

Sample Number	Date Collected	Arsenic	Barium	Chromium	Copper	Nickel	Lead	Zinc
BIC-822-1	08/24/91	0.20 U	1.0 U	0.10 U	0.22	0.10 U	0.20 U	0.10 U
BIC-823-1	08/26/91	0.20 U	1.0 U	0.10 U	0.27	0.10 U	0.20 U	0.10 U
BIC-826-1(a)	08/27/91	5.4	1.0 U	0.10 U	0.27	0.10 U	0.20 U	0.10 U
BIC-826-2	08/29/91	0.20 U	1.0 U	0.10 U	0.20	0.10 U	0.20 U	0.12
BIC-827-1	08/27/91	3.1	1.0 U	0.10 U	0.14	0.10 U	0.20 U	0.10 U
BIC-827-2	08/29/91	0.20 U	1.0 U	0.10 U	0.24	0.10 U	0.20 U	0.10
BIC-828-1	08/29/91	0.20 U	1.0 U	0.10 U	0.28	0.10 U	0.20 U	0.10 U
BIC-829-1	08/30/91	0.20 U	1.0 U	0.10 U	0.25	0.10 U	0.20 U	0.10 U
BIC-903-1	09/05/91	0.20 U	1.0 U	0.10 U	0.32	0.10 U	0.20 U	0.10 U
BIC-904-1	09/06/91	1.5	1.0 U	0.10 U	0.45	0.10 U	0.20 U	0.10 U
BIC-904-2	09/09/91	0.30	1.0 U	0.10 U	0.48	0.10 U	0.20 U	0.10 U
BIC-905-1	09/06/91	0.21	1.0 U	0.10 U	0.34	0.10 U	0.20 U	0.10 U
BIC-906-1	09/09/91	0.26	1.0 U	0.10 U	0.42	0.10 U	0.20 U	0.10 U
BIC-909-1(b)	09/11/91	7.3	1.0 U	0.10 U	0.52	0.10 U	0.20 U	0.10 U
BIC-909-1D	09/11/91	7.7	1.0 U	0.10 U	0.50	0.10 U	0.20 U	0.10 U
BIC-909-2(b)	09/12/91	0.70	1.0 U	0.10 U	0.43	0.10 U	0.20 U	0.10 U
BIC-909-3	09/25/91	0.24	1.0 U	0.10 U	0.44	0.10 U	0.20 U	0.10 U
BIC-909-4-1	09/25/91	0.46	1.0 U	0.10 U	0.45	0.10 U	0.20 U	0.10
BIC-909-4-2	09/25/91	0.59	1.0 U	0.10 U	0.47	0.10 U	0.20 U	0.10 U
BIC-909-4-3	09/25/91	0.50	1.0 U	0.10 U	0.53	0.10 U	0.20 U	0.21
BIC-909-4-4	09/25/91	0.54	1.0 U	0.10 U	0.55	0.10 U	0.20 U	0.10 U
BIC-909-4-5	09/25/91	0.42	1.0 U	0.10 U	0.48	0.10 U	0.20 U	0.10 U
BIC-909-4-6	09/25/91	0.66	1.0 U	0.10 U	0.53	0.10 U	0.20 U	0.10 U
BIC-909-4-7	09/25/91	0.56	1.0 U	0.10 U	0.48	0.10 U	0.20 U	0.10 U
BIC-909-4-8	09/25/91	0.87	1.0 U	0.10 U	0.53	0.10 U	0.20 U	0.10 U
BIC-909-4-D	09/25/91	0.52	1.0 U	0.10 U	0.53	0.10 U	0.20 U	0.10 U
BIC-910-1	09/13/91	0.22	1.0 U	0.10 U	0.44	0.10 U	0.10 U	0.10 U
BIC-911-1	09/14/91	0.20 U	1.0 U	0.10 U	0.39	0.10 U	0.10 U	0.10 U
BIC-912-1	09/16/91	0.54	1.0 U	0.10 U	0.61	0.10 U	0.20 U	0.10 U
BIC-913-1	09/16/91	0.23	1.0 U	0.10 U	0.40	0.10 U	0.20 U	0.10 U
BIC-916-1	09/18/91	0.20 U	1.0 U	0.10 U	0.31	0.10 U	0.20 U	0.10 U
BIC-917-1	09/19/91	0.20 U	1.0 U	0.10 U	0.19	0.10 U	0.20 U	0.10 U
BIC-918-1	09/20/91	0.25	1.0 U	0.10 U	0.32	0.10 U	0.20 U	0.10 U
BIC-919-1	09/21/91	0.20 U	1.0 U	0.10 U	0.28	0.10 U	0.20 U	0.10 U
BIC-920-1	09/23/91	0.20 U	1.0 U	0.10 U	0.24	0.10 U	0.20 U	0.10 U
BIC-923-1	09/24/91	0.20 U	1.0 U	0.10 U	0.17	0.10 U	0.20 U	0.10 U
BIC-924-1	09/25/91	0.20 U	1.0 U	0.10 U	0.15	0.10 U	0.20 U	0.10 U
BIC-926-1	09/28/91	0.20 U	1.0 U	0.10 U	0.21	0.10 U	0.20 U	0.10 U
BIC-927-1	09/30/91	0.45	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U
BIC-930-1	10/01/91	0.20 U	1.0 U	0.10 U	0.15	0.10 U	0.20 U	0.10 U
BIC-101-1	10/02/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U
BIC-102-1	10/03/91	0.20 U	1.0 U	0.10 U	0.10	0.10 U	0.20 U	0.10 U
BIC-103-1	10/04/91	0.20 U	1.0 U	0.10 U	0.14	0.10 U	0.20 U	0.10 U
BIC-104-1	10/07/91	1.1	1.0 U	0.10 U	0.14	0.10 U	0.20 U	0.10 U
BIC-104-2-1	10/09/91	0.20 U	1.0 U	0.10 U	0.19	0.10 U	0.20 U	0.10 U
BIC-104-2-2	10/09/91	0.20 U	1.0 U	0.10 U	0.16	0.10 U	0.20 U	0.10 U
BIC-104-2-3	10/09/91	0.20 U	1.0 U	0.10 U	0.20	0.10 U	0.20 U	0.10 U
BIC-104-2-4	10/09/91	0.20 U	1.0 U	0.10 U	0.21	0.10 U	0.20 U	0.10 U
BIC-104-2-5	10/09/91	0.20 U	1.0 U	0.10 U	0.20	0.10 U	0.20 U	0.10 U

TABLE B-3
Summary of Cure Area Results
TCLP Metals (mg/L)

Sample Number	Date Collected	Arsenic	Barium	Chromium	Copper	Nickel	Lead	Zinc
BIC-107-1	10/08/91	0.20 U	1.0 U	0.10 U	0.10	0.10 U	0.20 U	0.10 U
BIC-109-1	10/11/91	0.20 U	1.0 U	0.10 U	0.26	0.10 U	0.20 U	0.10 U
BIC-1010-1	10/14/91	0.20 U	1.0 U	0.10 U	0.29	0.10 U	0.20 U	0.10 U
BIC-1014-1	10/15/91	0.20 U	1.0 U	0.10 U	0.17	0.10 U	0.20 U	0.10 U
BIC-1015-1	10/16/91	0.20 U	1.0 U	0.10 U	0.10	0.10 U	0.20 U	0.10 U
BIC-1016-1	10/17/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U
BIC-1018-1	10/19/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.20 U	0.10 U
BIC-1021-1	10/23/91	0.20 U	1.0 U	0.10 U	0.13	0.10 U	0.10 U	0.10 U
BIC-1022-1	10/24/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIC-1023-1	10/25/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIC-1024-1	10/26/91	0.20 U	1.0 U	0.10 U	0.11	0.10 U	0.20 U	0.10 U
BIC-1028-1	10/30/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIC-1106-1	11/07/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIC-1107-1	11/08/91	0.20 U	1.0 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U
BIC-1108-1	11/11/91	0.20 U	1.0 U	0.10 U	0.12	0.10 U	0.20 U	0.10 U

(a) Sample label reads BIC-827-1.
(b) BIC-909-1 and BIC-909-2 are the same sample.
U Compound analyzed for but not detected at the given detection limit.

NOTES:
Samples analyzed by Chempro.

01/27/92
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APPENDIX C
OVERBURDEN SOIL STOCKPILE SAMPLING
BOEING THOMPSON/ISAACSON SITE

INTRODUCTION

This appendix presents the plan that GeoEngineers used during collection of soil samples from the stockpile of overburden soil at the Boeing Thompson/Isaacson site. The stockpile consisted of approximately 9,000 cubic yards of overburden soil that was removed from the vicinity of the remedial excavation. The locations from which soil samples were collected are shown in Figure C1. The soil samples were submitted for chemical analysis of priority pollutant metals and metals by TCLP (toxicity characteristic leaching procedure).

Soil in which arsenic was detected at concentrations exceeding 200 ppm (parts per million) was removed from the stockpile and treated using the soil stabilization treatment process. Three cells were excavated to remove the soil with elevated concentrations (>200 ppm) of arsenic. The resulting sidewalls of the excavated cells were resampled to confirm that soil with elevated concentrations of arsenic was removed. Chemical analytical data are presented in Table C1. Laboratory reports are included in Appendix E.3.

SAMPLING PROCEDURE

GENERAL

Sixty-five soil samples were collected from the soil stockpile between September 30 and October 16, 1991. Forty-four discrete soil samples were collected from a grid pattern established prior to sample collection. The 44 discrete samples were analyzed by ARI (Analytical Resources, Inc.). Twenty-one composite soil samples were collected from the sidewalls of each excavated cell after soil containing elevated levels of arsenic was removed. These samples were analyzed by Tech Dryer (Technical Dryer Corporation) and by Laucks (Laucks Testing Laboratory, Inc.).

SAMPLING GRID

A grid pattern was established on the surface of the stockpile before the initial soil samples were collected. The stockpile was divided into cells 25 feet wide by 37 feet long by 12 feet deep. The cells were labeled alphanumerically with a number designation from north to south and an alphabetic designation from east to west as shown in Figure C1.

SOIL SAMPLE COLLECTION AND EXCAVATION

A minimum of two discrete soil samples were collected from a test pit excavated in each cell using a trackhoe-type excavator operated by SME (SME Corporation). The soil samples were collected directly from the excavator bucket and placed in sample containers provided by the

TABLE C1
SUMMARY OF METALS ANALYSIS[1]
SOIL SAMPLES FROM OVERBURDEN STOCKPILE
BOEING THOMPSON/ISAACSON SITE

Soil Sample Number	Depth of Sample (feet)	Priority Pollutant Metals (milligrams/kilogram-dry)												
		Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
SP-A1-1	5	ND	26	0.3	0.5	78.6	58.2	848	0.06	38	ND	ND	8	1,660
SP-A1-2	10	ND	32	0.3	0.6	32.1	53.6	163	0.08	44	ND	ND	5	669
SP-A2-1	4	ND	20	0.3	0.3	28.5	45.1	139	0.05	35	ND	ND	ND	1,000
SP-A2-2	7	ND	222	0.3	1.0	29.7	162	98	0.13	26	ND	ND	5	358
SP-A2-3	composite	--	150(181)[2]	--	--	--	--	--	--	--	--	--	--	--
SP-A2-4	composite	--	140(141)[2]	--	--	--	--	--	--	--	--	--	--	--
SP-A2-5	composite	--	120(119)[2]	--	--	--	--	--	--	--	--	--	--	--
SP-A2-6	composite	--	43(174)[2]	--	--	--	--	--	--	--	--	--	--	--
SP-A3-1	3	ND	23	0.3	0.3	31.0	38.6	118	0.06	38	ND	ND	7	669
SP-A3-2	8	6	29	0.3	0.6	45.1	68	144	0.17	34	ND	ND	ND	289
SP-A4-1	5	40	39	0.3	0.6	32.6	56.1	182	0.11	41	ND	ND	6	489
SP-A4-2	8	ND	28	0.3	0.8	41.6	74.2	101	0.18	39	ND	ND	8	288
SP-B1-1	5	12	266	0.3	0.9	38.4	141	106	0.27	39	ND	ND	7	326
SP-B1-2	9	ND	156	0.2	0.8	31	103	146	0.31	33	ND	ND	ND	300
SP-B1-3	composite	--	150(180)[2]	--	--	--	--	--	--	--	--	--	--	--
SP-B1-4	composite	--	130(151)[2]	--	--	--	--	--	--	--	--	--	--	--
SP-B1-5	composite	--	100(98)[2]	--	--	--	--	--	--	--	--	--	--	--
SP-B1-6	composite	--	40(47)[2]	--	--	--	--	--	--	--	--	--	--	--
SP-B1-7	composite	--	130(135)[2]	--	--	--	--	--	--	--	--	--	--	--
911011-D1[3]	composite	--	130(149)[2]	--	--	--	--	--	--	--	--	--	--	--
SP-B2-1	4	ND	168	0.3	0.6	27.3	175	66	0.32	39	6	ND	ND	188
SP-B2-2	7	8	192	0.3	0.6	29.8	125	104	0.21	68	5	ND	9	252
SP-B2-3	11	27	120	0.3	1.2	44.3	120	119	0.41	39	ND	ND	12	494

Notes:
[1]Soil samples were analyzed by Analytical Resources, Inc. except where noted. Laboratory reports are presented in Appendix E.3.
[2]Chemical analyses conducted by Laucks Testing Laboratory. Technical Dryer arsenic screening results are in parentheses. Laboratory reports are presented in Appendix E.3.
[3]Duplicate of SP-B1-7.
"ND" = not detected
"--" = not tested

TABLE C1
SUMMARY OF METALS ANALYSIS[1]
SOIL SAMPLES FROM OVERBURDEN STOCKPILE
BOEING THOMPSON/ISAACSON SITE

Soil Sample Number	Depth of Sample (feet)	Priority Pollutant Metals (milligrams/kilogram-dry)												
		Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
SP-B3-1	5	ND	99	0.4	0.7	39.1	113	96	0.55	37	ND	ND	ND	314
SP-B3-2	11	ND	115	0.3	0.8	22.2	96.7	173	0.3	31	ND	ND	4	276
SP-B3-3[2]	5	6	283	0.3	0.4	27.4	161	107	0.2	41	ND	ND	8	203
SP-B3-4	composite	--	56(46)[3]	--	--	--	--	--	--	--	--	--	--	--
SP-B3-5	composite	--	94(96)[3]	--	--	--	--	--	--	--	--	--	--	--
SP-B3-6	composite	--	42(66)[3]	--	--	--	--	--	--	--	--	--	--	--
SP-B3-7	composite	--	90(183)[3]	--	--	--	--	--	--	--	--	--	--	--
SP-B3-8	composite	--	210(127)[3]	--	--	--	--	--	--	--	--	--	--	--
SP-B3-9	composite	--	130(128)[3]	--	--	--	--	--	--	--	--	--	--	--
SP-B3-10	composite	--	77(83)[3]	--	--	--	--	--	--	--	--	--	--	--
SP-B3-11	composite	--	160(140)[3]	--	--	--	--	--	--	--	--	--	--	--
SP-B3-12	composite	--	54(56)[3]	--	--	--	--	--	--	--	--	--	--	--
SP-B4-1	6	8	127	0.2	0.5	24.3	95.9	142	0.42	31	ND	ND	ND	238
SP-B4-2	8	ND	131	0.3	0.9	25.7	127	107	0.36	40	ND	ND	7	354
SP-C1-1	4	ND	157	0.3	0.7	33.5	95	117	0.16	27	ND	ND	6	310
SP-C1-2	8	ND	100	0.3	0.6	33.5	70.5	142	0.09	33	ND	ND	ND	582
SP-C1-3	composite	--	130(177)[3]	--	--	--	--	--	--	--	--	--	--	--
SP-C1-4	composite	--	100(110)[3]	--	--	--	--	--	--	--	--	--	--	--
SP-C2-1	2	ND	10	0.3	0.3	30	43.9	193	0.09	41	ND	ND	ND	1,110
SP-C2-2	8	ND	42	0.3	0.3	27.4	50.4	88	0.07	36	ND	ND	7	471
SP-C3-1	4	ND	24	0.3	0.4	24.9	58.2	117	0.13	33	ND	ND	6	492
SP-C3-2	10	ND	39	0.3	0.4	26.2	93.5	102	0.17	64	ND	ND	8	252
SP-C3-D[4]	4	ND	ND	0.3	0.3	19.8	34.8	75	0.09	20	ND	ND	ND	144

Notes:

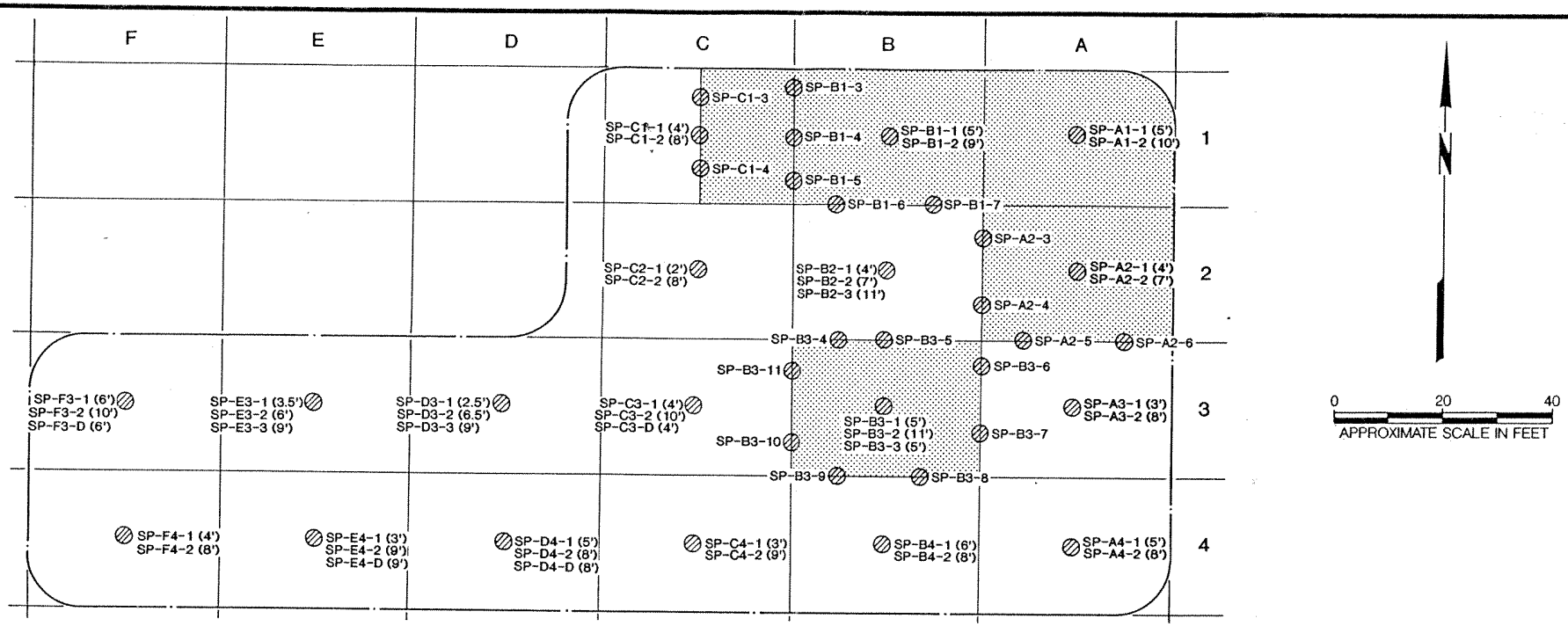
[1]Soil samples were analyzed by Analytical Resources, Inc. except where noted. Laboratory reports are presented in Appendix E.3.
[2]Duplicate of SP-B3-1.
[3]Chemical analyses conducted by Laucks Testing Laboratory. Technical Dryer arsenic screening results are in parentheses. Laboratory reports are presented in Appendix E.3.
[4]Duplicate of SP-C3-1.
"ND" = not detected
"--" = not tested

TABLE C1
SUMMARY OF METALS ANALYSIS[1]
SOIL SAMPLES FROM OVERBURDEN STOCKPILE
BOEING THOMPSON/ISAACSON SITE

Soil Sample Number	Depth of Sample (feet)	Priority Pollutant Metals (milligrams/kilogram-dry)												
		Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
SP-C4-1	3	ND	38	0.4	1	85.7	92.1	221	0.14	103	ND	ND	ND	515
SP-C4-2	9	6	54	0.3	0.7	29	71.6	178	0.22	32	ND	ND	6	303
SP-D3-1[6]	2.5	ND	112	0.3	0.5	104	109	80	0.2	77	ND	ND	5	184
SP-D3-2	6.5	6	97	0.3	0.3	68.2	117	92	0.23	200	ND	ND	10	193
SP-D3-3	9	ND	118	0.3	0.4	36.6	98.3	77	0.26	144	ND	ND	ND	193
SP-D4-1	5	7	25	0.3	1.7	66.3	116	983	0.3	86	ND	ND	9	889
SP-D4-2[7]	8	6	60	0.4	1	72.7	96.1	184	0.19	59	ND	ND	12	385
SP-D4-D[8]	8	5	58	0.3	1.1	66.7	145	190	0.23	63	ND	ND	ND	1,510
SP-E3-1	3.5	13	38	0.6	2.1	888	365	3,000	0.06	2,170	ND	0.7	7	2,530
SP-E3-2	6	4	46	0.2	0.7	111	75.8	378	0.11	80	ND	ND	4	529
SP-E3-3	9	8	137	0.2	0.5	22	79	57	0.19	22	ND	ND	ND	235
SP-E4-1	3	11	30	0.5	1.3	153	226	285	0.21	276	ND	ND	9	1,360
SP-E4-2	9	ND	13	0.3	ND	29	41.5	47	ND	41	4	ND	ND	361
SP-E4-D[9]	9	ND	9	0.3	0.8	35.5	29	140	0.05	41	ND	ND	ND	462
SP-F3-1	6	7	30	0.3	2	117	92.9	287	0.16	63	ND	ND	7	583
SP-F3-2	10	5	76	0.2	0.6	25.7	66.6	48	0.34	23	ND	ND	ND	164
SP-F-D[10]	6	7	32	0.4	2.8	72.8	98.9	492	0.18	85	ND	ND	9	1,120
SP-F4-1	4	6	21	0.4	2.2	83.3	98.8	1,550	0.29	70	ND	ND	9	859
SP-F4-2	8	6	34	0.3	1.8	136	135	804	0.29	208	ND	ND	6	698

Notes:

[1]Soil samples were analyzed by Analytical Resources, Inc. except where noted. Laboratory reports are presented in Appendix E.3.
[4]Sample was also analyzed for metals using TCLP. Arsenic (0.28 mg/l), barium (0.689 mg/l), cadmium (0.010 mg/l), and lead (0.12 mg/l) were detected in the sample.
[6]Sample was also analyzed for metals using TCLP. Barium (0.965 mg/l), cadmium (0.012 mg/l), and lead (0.58 mg/l) were detected in the sample.
[7]Sample was also analyzed for metals using TCLP. Barium (0.835 mg/l), cadmium (0.13 mg/l), and lead (0.04 mg/l) were detected in the sample.
[8]Duplicate of SP-D4-2.
[9]Duplicate of SP-E4-2.
[10]Duplicate of SP-F3-1.
"--" = not tested
"ND" = not detected



EXPLANATION:

SP-A1-1 (5') APPROXIMATE SOIL SAMPLING LOCATION AND NUMBER (DEPTH IN FEET)

SOIL TREATED BY SOIL STABILIZATION TREATMENT PROCESS

NOTE: AVERAGE THICKNESS OF STOCKPILE IS 12 FEET.

Geo Engineers

OVERBURDEN SOIL STOCKPILE
BOEING THOMPSON/ISAACSON SITE

FIGURE C1

0120-116 R14 JN:BDY 11.20.91

APPENDIX D
SECONDARY CONTAINMENT CLOSURE FIELD ACTIVITIES
ASPHALT SAMPLING
BOEING THOMPSON/ISAACSON SITE

INTRODUCTION

This appendix presents a summary of GeoEngineers' field activities during sampling of the asphalt concrete pavement in the secondary containment area used during the soil stabilization treatment process. The secondary containment area was cleaned with a pressure washer to remove residual soil from the surface of the asphalt pavement. The wastewater was collected in a sump, pumped into Baker tanks located on site, and sampled and submitted for chemical analysis. Chemical Processors Inc. removed the water from the Baker tanks and transported it to Boeing's wastewater treatment facility. The top 2 inches of asphalt was removed from the secondary containment area and transported to the landfill operated by Chem Security Systems Inc. (CSSI) in Arlington, Oregon. The surface of the remaining 6-inch-thick layer of asphalt was sampled and submitted for chemical analysis of arsenic. The asphalt sampling locations are shown in Plate D1. The chemical analytical data are summarized in Table D1. Laboratory reports are included in Appendix E.4.

The containment area wall consisting of jersey barriers lined with 40 millimeter plastic and hay bales was removed at the completion of asphalt sampling. The plastic liner and hay bales were transported to the CSSI landfill in Arlington, Oregon. The jersey barriers were pressure washed and returned to Woodworth and Company, Inc. of Tacoma, Washington. Catch basins bordering the containment area were removed and transported to the CSSI landfill in Arlington, Oregon. The resulting excavations were backfilled by SME Corporation with sand and crushed rock.

SAMPLING PROCEDURE

GENERAL

Sixty asphalt samples were collected from the secondary containment area between December 4 and 23, 1991. The samples were analyzed for arsenic by ARI (Analytical Resources Inc.).

TABLE D1
SUMMARY OF ANALYTICAL RESULTS--ASPHALT SAMPLES[1]
BOEING THOMPSON/ISAACSON SITE

Sample Identification[2]	Date Sampled	Time Sampled	Arsenic Concentration EPA Method 6010 (milligrams/kilogram-dry)
AC-10A-1	12/4/91	13:35	5 ND
AC-9A-1	12/4/91	13:40	6
AC-9B-1	12/4/91	13:45	4 ND
AC-8A-1	12/4/91	13:50	5
AC-8B-1	12/4/91	13:55	5 ND
AC-7B-1	12/4/91	14:05	5
AC-7A-1	12/4/91	14:08	5 ND
AC-6B-1	12/5/91	10:35	5 ND
AC-5B-1	12/5/91	10:40	6 ND
AC-4B-1	12/5/91	10:45	6 ND
AC-911204[3]	12/5/91	10:55	6
AC-3B-1	12/5/91	11:00	6 ND
AC-2B-1	12/5/91	11:15	7
AC-1B-1	12/5/91	13:55	6
AC-11E-1	12/10/91	10:55	9
AC-11D-1	12/10/91	11:00	7
AC-11C-1	12/10/91	11:05	8
AC-11B-1	12/10/91	11:10	5
AC-12E-1	12/10/91	14:05	17
AC-12D-1	12/10/91	14:12	14
AC-12C-1	12/10/91	14:15	13
AC-911210[4]	12/10/91	14:20	13
AC-12B-1	12/10/91	14:25	11
AC-12A-1	12/10/91	14:30	6
AC-11A-1	12/10/91	14:35	15
AC-13E-1	12/12/91	11:30	7
AC-13D-1	12/12/91	11:36	5 ND
AC-13C-1	12/12/91	11:41	4 ND
AC-13B-1	12/12/91	11:46	4 ND
AC-13A-1	12/12/91	11:51	7

Notes:

[1]Chemical analyses conducted by Analytical Resources Inc. Laboratory reports are included in Appendix E.4.

[2]Sample locations are shown in Plate D1.

[3]Duplicate of AC-4B-1.

[4]Duplicate of AC-12C-1.

"ND" = Arsenic was not detected at the given concentration limit.

TABLE D1
SUMMARY OF ANALYTICAL RESULTS--ASPHALT SAMPLES[1]
BOEING THOMPSON/ISAACSON SITE

Sample Identification[2]	Date Sampled	Time Sampled	Arsenic Concentration EPA Method 6010 (milligrams/kilogram-dry)
AC-14A-1	12/17/91	--	4 ND
AC-14B-1	12/17/91	--	4 ND
AC-15A-1	12/17/91	--	5 ND
AC-15B-1	12/17/91	--	5 ND
AC-16A-1	12/17/91	--	5 ND
AC-16B-1	12/17/91	--	4 ND
AC-911217[3]	12/17/91	--	4 ND
AC-14A-2	12/18/91	--	6
AC-17A-1	12/18/91	--	7
AC-17B-1	12/18/91	--	5 ND
AC-16C-1	12/20/91	11:15	4 ND
AC-17C-1	12/20/91	11:20	4 ND
AC-16D-1	12/20/91	11:25	5 ND
AC-17D-1	12/20/91	11:30	4 ND
AC-911220-1[4]	12/20/91	11:35	5 ND
AC-18B-1	12/20/91	11:40	5 ND
AC-18A-1	12/20/91	11:45	4 ND
AC-19A-1	12/20/91	11:55	4 ND
AC-19B-1	12/20/91	14:00	5 ND
AC-19B-2	12/20/91	14:05	12
AC-19C-1	12/20/91	14:15	5 ND
AC-19C-2	12/20/91	14:20	5 ND
AC-911220-2[5]	12/20/91	14:25	4 ND
AC-18C-1	12/20/91	14:30	5 ND
AC-18D-1	12/20/91	14:35	5 ND
AC-19D-1	12/20/91	14:40	4 ND
AC-16E-1	12/23/91	11:40	5 ND
AC-17E-1	12/23/91	11:45	4 ND
AC-18E-1	12/23/91	11:50	4 ND
AC-19E-1	12/23/91	11:55	4 ND

Notes:

[1]Chemical analyses conducted by Analytical Resources Inc. Laboratory reports are included in Appendix E.4.

[2]Sample locations are shown in Plate D1.

[3]Duplicate of AC-16A-1.

[4]Duplicate of AC-17D-1.

[5]Duplicate of AC-18C-1.

"--" = sample collection time was not recorded

"ND" = Arsenic was not detected at the given concentration limit