

XRF LEAD AND ARSENIC SCREENING SUMMARY
SEPTEMBER 28 & 28, 2010
PARK CITY WATER TREATMENT PLANT
PARK CITY, UTAH

Sample Location	Sample Depth	Reading Number	Reading (Seconds)	Date/Time	Lead (mg/kg)	Lead +/-	Arsenic (mg/kg)	Arsenic +/-
Calibration	NA	1	652.4	9/27/2010 11:43	NA		NA	
Blank	NA	2	3.6	9/27/2010 11:45	<LOD	52.5	<LOD	53.4
Low	NA	3	3.6	9/27/2010 11:48	<LOD	79.2	<LOD	84.3
Medium	NA	4	3.6	9/27/2010 11:51	1100	220	<LOD	255
High	NA	5	3.6	9/27/2010 11:55	5468.8	670	<LOD	690
SITE 1								
6	Surface	6	3.7	9/27/2010 13:51	<LOD	118.65	<LOD	111.45
7	Surface	7	3.7	9/27/2010 13:57	1420	290	<LOD	390
8	Surface	8	3.6	9/27/2010 14:01	1819.2	330	<LOD	420
9	Surface	9	3.7	9/27/2010 14:03	2089.6	430	<LOD	525
10	Surface	10	3.7	9/27/2010 14:06	<LOD	180	<LOD	165
11	Surface	11	3.7	9/27/2010 14:08	593.6	210	<LOD	300
12	Surface	12	3.7	9/27/2010 14:11	1699.2	320	<LOD	390
13	Surface	13	3.7	9/27/2010 14:14	1560	360	<LOD	390
14	Surface	14	3.7	9/27/2010 14:16	4528	829.6	<LOD	810
15	Surface	15	3.7	9/27/2010 14:18	1948.8	500	<LOD	645
16	Surface	16	3.7	9/27/2010 14:20	<LOD	140.85	<LOD	125.55
17	Surface	17	3.7	9/27/2010 14:23	<LOD	180	<LOD	180
18	Surface	18	3.6	9/27/2010 14:24	677.6	290	<LOD	405
19	Surface	19	3.7	9/27/2010 14:27	<LOD	195	<LOD	165
20	Surface	20	3.7	9/27/2010 14:29	<LOD	465	<LOD	540
21	Surface	21	3.6	9/27/2010 14:37	571.6	220	<LOD	285
22	Surface	22	3.7	9/27/2010 14:39	1109.6	290	<LOD	360
23	Surface	23	3.7	9/27/2010 14:42	1529.6	520	<LOD	615
24	Surface	24	3.7	9/27/2010 14:46	1180	380	<LOD	480
25	Surface	25	3.7	9/27/2010 14:49	2889.6	570	<LOD	630
26	Surface	26	3.7	9/27/2010 14:52	1769.6	430	<LOD	465
27	Surface	27	3.7	9/27/2010 14:54	2080	540	<LOD	660
28	Surface	28	3.6	9/27/2010 15:00	1868.8	480	<LOD	555
29	Surface	29	3.7	9/27/2010 15:02	1329.6	680	<LOD	750
30	Surface	30	3.7	9/27/2010 15:04	3099.2	580	<LOD	675
31	Surface	31	3.7	9/27/2010 15:07	3308.8	620	<LOD	660
32	Surface	32	3.7	9/27/2010 15:09	1889.6	380	<LOD	465
33	Surface	33	3.7	9/27/2010 15:12	539.2	180	<LOD	225
34	Surface	34	3.7	9/27/2010 15:14	4320	670	<LOD	690
35	Surface	35	3.7	9/27/2010 15:16	8115.2	1699.2	<LOD	1470
36	Surface	36	3.7	9/27/2010 15:18	2539.2	410	<LOD	480
37	Surface	37	3.7	9/27/2010 15:20	2769.6	480	<LOD	510
38	Surface	38	3.7	9/27/2010 15:22	284.8	130	<LOD	165
39	Surface	39	3.6	9/27/2010 15:25	360.4	170	<LOD	180
40	Surface	40	3.7	9/27/2010 15:29	615.2	210	<LOD	285
41	Surface	41	3.7	9/27/2010 15:31	196	110	<LOD	150
42	Surface	42	3.7	9/27/2010 15:34	<LOD	142.35	<LOD	131.55
43	Surface	43	3.7	9/27/2010 15:36	195.8	120	<LOD	145.5
44	Surface	44	3.7	9/27/2010 15:38	398.4	150	<LOD	195
45	Surface	45	3.6	9/27/2010 15:39	1120	260	<LOD	315

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46	Surface	46	3.6	9/27/2010 15:41	2360	410	<LOD	450
47	Surface	47	3.7	9/27/2010 15:43	1569.6	350	<LOD	435
48	Surface	48	3.7	9/27/2010 15:45	821.6	220	<LOD	270
49	Surface	49	3.7	9/27/2010 15:46	3427.2	570	<LOD	615
50	Surface	50	3.7	9/27/2010 15:48	5497.6	700	<LOD	705
51	Surface	51	3.7	9/27/2010 15:49	5040	680	<LOD	675
52	Surface	52	3.6	9/27/2010 15:51	2560	400	<LOD	450
53	Surface	53	3.6	9/27/2010 15:52	5059.2	670	<LOD	675
54	Surface	54	3.7	9/27/2010 15:55	2600	440	<LOD	495
55	Surface	55	3.7	9/27/2010 15:57	3089.6	550	<LOD	600
56	Surface	56	3.7	9/27/2010 15:59	1420	340	<LOD	405
57	Surface	57	3.6	9/27/2010 16:01	379	190	<LOD	240
58	Surface	58	3.7	9/27/2010 16:03	708	250	<LOD	315
59	Surface	59	3.7	9/27/2010 16:05	1340	310	<LOD	405
60	Surface	60	3.7	9/27/2010 16:08	<LOD	315	<LOD	240
61	Surface	61	3.7	9/27/2010 16:12	634.8	270	<LOD	345
62	Surface	62	3.7	9/27/2010 16:14	1189.6	290	<LOD	330
63	Surface	63	3.6	9/27/2010 16:16	5228.8	680	<LOD	690
64	Surface	64	3.7	9/27/2010 16:18	1429.6	340	<LOD	420
65	Surface	65	3.7	9/27/2010 16:20	3468.8	670	<LOD	690
66	Surface	66	3.6	9/27/2010 16:21	4169.6	929.6	<LOD	930
67	Surface	67	3.6	9/27/2010 16:23	2659.2	530	<LOD	615
68	Surface	68	3.5	9/27/2010 16:25	2360	420	<LOD	465
69	Surface	69	3.7	9/27/2010 16:26	2280	370	<LOD	420
70	Surface	70	3.7	9/27/2010 16:28	1380	270	<LOD	300
71	Surface	71	3.7	9/27/2010 16:29	2548.8	440	<LOD	510
72	Surface	72	3.7	9/27/2010 16:31	2089.6	440	<LOD	495
73	Surface	73	3.7	9/27/2010 16:32	1549.6	380	<LOD	465
74	Surface	74	3.7	9/27/2010 16:34	659.6	210	<LOD	270
75	Surface	75	3.7	9/27/2010 16:38	596.8	210	<LOD	255
76	Surface	76	3.7	9/27/2010 16:40	198.1	120	<LOD	150
77	Surface	77	3.7	9/27/2010 16:41	<LOD	240	<LOD	195
78	Surface	78	3.7	9/27/2010 17:31	490	150	<LOD	180
79	Surface	79	3.7	9/27/2010 17:33	725.2	240	<LOD	285
80	Surface	80	3.7	9/27/2010 17:35	<LOD	345	<LOD	255
81	Surface	81	3.7	9/27/2010 17:36	528	220	<LOD	255
82	Surface	82	3.7	9/27/2010 17:38	1089.6	420	<LOD	555
83	Surface	83	3.7	9/27/2010 17:41	4249.6	760	<LOD	795
84	Surface	84	3.6	9/27/2010 17:43	2828.8	640	<LOD	675
85	Surface	85	3.7	9/27/2010 17:45	6137.6	1000	<LOD	1005
86	Surface	86	3.7	9/27/2010 17:47	2788.8	520	<LOD	600
87	Surface	87	3.7	9/27/2010 17:48	892.8	250	<LOD	330
88	Surface	88	3.7	9/27/2010 17:50	2708.8	510	<LOD	540
89	Surface	89	4.6	9/27/2010 17:52	1849.6	480	<LOD	525
90	Surface	90	3.7	9/27/2010 17:56	3888	640	<LOD	675

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91	Surface	91	3.6	9/27/2010 17:58	738.8	360	<LOD	435
92	Surface	92	3.7	9/27/2010 18:00	1009.6	320	<LOD	405
93	Surface	93	3.7	9/27/2010 18:02	<LOD	180	<LOD	165
94	Surface	94	3.7	9/27/2010 18:04	268.8	120	<LOD	165
95	Surface	95	3.6	9/27/2010 18:06	915.2	490	<LOD	540
96	Surface	96	3.7	9/27/2010 18:17	1089.6	270	<LOD	300
97	Surface	97	3.7	9/27/2010 18:19	1489.6	550	<LOD	690
98	Surface	98	3.7	9/27/2010 18:21	6320	1400	<LOD	1185
99	Surface	99	3.7	9/27/2010 18:23	1240	380	<LOD	465
100	Surface	100	3.6	9/27/2010 18:24	916.8	230	<LOD	300
101	Surface	101	3.7	9/27/2010 18:26	1320	330	<LOD	405
102	Surface	102	4.3	9/27/2010 18:28	<LOD	240	<LOD	255
103	Surface	103	3.7	9/27/2010 18:30	376	210	<LOD	255
104	Surface	104	3.7	9/27/2010 18:31	901.6	290	<LOD	330
105	Surface	105	3.7	9/27/2010 18:33	730	230	<LOD	270
106	Surface	106	3.7	9/27/2010 18:34	389.8	180	<LOD	225
107	Surface	107	3.7	9/27/2010 18:36	1529.6	300	587.6	280
108	Surface	108	3.7	9/27/2010 18:38	815.2	240	<LOD	285
109	Surface	109	3.7	9/27/2010 18:40	<LOD	148.05	<LOD	118.8
110	Surface	110	3.7	9/27/2010 18:42	522	290	<LOD	390
SITE 2								
111	Surface	111	3.7	9/27/2010 18:48	344	170	<LOD	225
112	Surface	112	3.7	9/27/2010 18:49	<LOD	143.1	<LOD	136.05
113	Surface	113	3.6	9/27/2010 18:51	<LOD	270	<LOD	240
114	Surface	114	3.7	9/27/2010 18:53	<LOD	210	<LOD	165
115	Surface	115	3.7	9/27/2010 18:54	<LOD	240	<LOD	210
116	Surface	116	3.6	9/27/2010 18:57	1349.6	829.6	<LOD	900
117	Surface	117	3.7	9/27/2010 18:58	1380	330	<LOD	375
118	Surface	118	3.7	9/27/2010 19:00	<LOD	225	<LOD	195
119	Surface	119	3.7	9/27/2010 19:02	212.4	120	<LOD	140.85
120	Surface	120	3.6	9/27/2010 19:03	259.2	150	<LOD	180
121	Surface	121	3.7	9/27/2010 19:05	<LOD	300	<LOD	270
122	Surface	122	3.7	9/27/2010 19:06	<LOD	165	<LOD	165
123	Surface	123	4.4	9/27/2010 19:08	184	120	<LOD	132.15
124	Surface	124	3.7	9/27/2010 19:10	<LOD	180	<LOD	165
125	Surface	125	3.6	9/27/2010 19:12	<LOD	195	<LOD	165
126	Surface	126	3.7	9/27/2010 19:13	<LOD	101.85	<LOD	115.5
127	Surface	127	3.7	9/27/2010 19:15	<LOD	150	<LOD	128.25
128	Surface	128	3.6	9/27/2010 19:17	<LOD	180	<LOD	134.4
129	Surface	129	3.7	9/27/2010 19:19	<LOD	129.9	<LOD	127.5
Calibration	Surface	130	645.2	9/28/2010 12:03	NA		NA	
SITE 3								
131	Surface	131	3.6	9/28/2010 12:04	<LOD	63.45	<LOD	52.8
132	Surface	132	3.6	9/28/2010 12:06	<LOD	79.2	<LOD	86.85
133	Surface	133	3.6	9/28/2010 12:08	1300	250	<LOD	285
134	Surface	134	4.5	9/28/2010 12:10	6240	720	<LOD	705
135	Surface	135	3.7	9/28/2010 13:40	<LOD	135.45	<LOD	115.95

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136	Surface	136	3.6	9/28/2010 13:42	<LOD	119.25	<LOD	124.8
137	Surface	137	3.6	9/28/2010 13:44	<LOD	165	<LOD	139.8
138	Surface	138	3.7	9/28/2010 13:47	<LOD	180	<LOD	180
139	Surface	139	3.7	9/28/2010 13:48	<LOD	110.25	150.2	100
140	Surface	140	3.6	9/28/2010 13:50	321.4	130	<LOD	165
141	Surface	141	3.7	9/28/2010 13:53	<LOD	165	<LOD	143.25
142	Surface	142	3.7	9/28/2010 13:55	<LOD	133.2	<LOD	115.2
143	Surface	143	3.6	9/28/2010 13:58	<LOD	225	<LOD	195
144	Surface	144	3.7	9/28/2010 14:01	<LOD	195	<LOD	150
145	Surface	145	3.6	9/28/2010 14:02	<LOD	110.55	<LOD	91.35
146	Surface	146	3.7	9/28/2010 14:04	<LOD	270	<LOD	285
147	Surface	147	3.7	9/28/2010 14:06	<LOD	180	<LOD	180
148	Surface	148	3.7	9/28/2010 14:08	270.2	140	<LOD	195
149	Surface	149	3.6	9/28/2010 14:11	<LOD	180	<LOD	150
150	Surface	150	3.6	9/28/2010 14:13	<LOD	135.45	<LOD	132.45
151	Surface	151	3.7	9/28/2010 14:15	<LOD	114.6	<LOD	104.25
152	Surface	152	3.7	9/28/2010 14:17	<LOD	165	<LOD	143.55
153	Surface	153	3.7	9/28/2010 14:20	<LOD	149.25	<LOD	129.45
154	Surface	154	3.7	9/28/2010 14:22	421.6	200	<LOD	255
155	Surface	155	3.7	9/28/2010 14:29	261.8	170	<LOD	225
156	Surface	156	3.7	9/28/2010 14:31	434.4	190	<LOD	225
157	Surface	157	3.7	9/28/2010 14:33	<LOD	315	<LOD	255
158	Surface	158	3.7	9/28/2010 14:34	297	180	<LOD	255
159	Surface	159	3.7	9/28/2010 14:36	<LOD	149.4	<LOD	128.55
160	Surface	160	3.7	9/28/2010 14:38	321.6	150	<LOD	195
161	Surface	161	3.7	9/28/2010 14:39	<LOD	225	<LOD	180
162	Surface	162	3.6	9/28/2010 14:41	205.2	120	<LOD	150
163	Surface	163	4.4	9/28/2010 14:42	<LOD	645	<LOD	540
164	Surface	164	3.7	9/28/2010 14:44	796	290	<LOD	375
165	Surface	165	3.6	9/28/2010 14:46	416.8	190	<LOD	270
166	Surface	166	3.6	9/28/2010 14:47	626	220	<LOD	270
167	Surface	167	3.7	9/28/2010 14:50	<LOD	119.55	<LOD	122.25
168	Surface	168	3.7	9/28/2010 14:52	<LOD	345	<LOD	420
169	Surface	169	3.7	9/28/2010 14:53	<LOD	225	<LOD	210
170	Surface	170	3.7	9/28/2010 14:55	491.2	210	<LOD	255
171	Surface	171	3.6	9/28/2010 14:58	<LOD	300	<LOD	300
172	Surface	172	3.6	9/28/2010 15:00	485.6	190	<LOD	240
173	Surface	173	3.7	9/28/2010 15:01	377.6	160	<LOD	195
174	Surface	174	3.7	9/28/2010 15:03	<LOD	390	<LOD	345
175	Surface	175	3.7	9/28/2010 15:05	<LOD	210	<LOD	180
176	Surface	176	3.7	9/28/2010 15:06	<LOD	195	<LOD	150
177	Surface	177	3.7	9/28/2010 15:08	<LOD	255	<LOD	255
178	Surface	178	3.7	9/28/2010 15:10	<LOD	135.75	<LOD	240
Calibration	Surface	179	658.2	9/28/2010 15:45	NA		NA	
SITE 4								
180	Surface	180	3.7	9/28/2010 15:45	<LOD	37.65	<LOD	41.85
181	Surface	181	3.7	9/28/2010 15:47	<LOD	83.7	<LOD	81.45

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182	Surface	182	3.7	9/28/2010 15:48	1289.6	260	<LOD	300
183	Surface	183	3.7	9/28/2010 15:50	5078.4	640	787.2	460
184	Surface	184	3.6	9/28/2010 16:01	<LOD	145.05	<LOD	146.1
185	Surface	185	3.7	9/28/2010 16:06	1400	320	<LOD	390
186	Surface	186	3.7	9/28/2010 16:08	5209.6	720	<LOD	750

<LOD = Less than Level of Detection

Concentrations in milligrams per kilograms (mg/kg)

+/- = Reported concentration are plus or minus this amount

NA = Not available

XRF = X-ray Fluorescence

Bolded and Highlighted Numbers exceed, or have the potential to exceed, the established project limits of 400 mg/kg for lead.

GS = Ground Surface

BGS = Below Ground Surface