

TABLE 1A
Screening of Inorganic Chemicals in RZ-B Using LBCLs and LSSLs

Parameter of Interest	Chemical Name	Depth Interval	Count	Detection Count	Detection Frequency	Maximum Detection (mg/kg)	Count of Site-wide Detections Above RBGC in Groundwater ⁵	LBCL (DAF 1) ³ (mg/kg)	Detections > LBCL ⁶ (DAF 1)	LBCL (DAF 20) ³ (mg/kg)	Detections > LBCL ⁶ (DAF 20)	LSSL ⁴ (mg/kg)	Total Detections > LSSL ⁶
Metals	Antimony	0 - 10 ft	142	52	37%	3	0	3.0E-01	39	6.0E+00	0	7.3E+01	0
	Arsenic	0 - 2 ft	67	67	100%	189	96	1.0E+00	67	2.0E+01	1	4.6E+01	1
	Arsenic	2 - 10 ft	75	75	100%	27		1.0E+00	75	2.0E+01	1	4.6E+01	0
	Boron	0 - 10 ft	142	51	36%	100	18	2.3E+01	6	4.7E+02	0	4.0E+03	0
	Boron	10 ft - UMCf	97	70	72%	82		2.3E+01	39	4.7E+02	0	4.0E+03	0
	Chromium (Total)	0 - 2 ft	67	67	100%	33	48	2.0E+00	67	4.0E+01	0	3.8E+03	0
	Chromium (VI)	0 - 10 ft	142	40	28%	31	46	2.0E+00	13	4.0E+01	0	6.4E+02	0
	Chromium (VI)	10 ft - UMCf	97	19	20%	36		2.0E+00	6	4.0E+01	0	6.4E+02	0
	Lead	0 - 10 ft	142	142	100%	185	2	1.4E+01	33	2.7E+02	0	3.2E+03	0
	Magnesium	10 ft - UMCf	97	97	100%	58100	49	9.7E+02	97	1.9E+04	45	6.0E+04	0
	Manganese	0 - 10 ft	142	142	100%	2320	18	3.3E+01	142	6.7E+02	13	2.4E+03	0
Perchlorate	Perchlorate	0 - 10 ft	142	139	98%	1260	84	3.6E-03	139	7.2E-02	138	4.2E-02	139
	Perchlorate	10 ft - UMCf	97	93	96%	2970		3.6E-03	93	7.2E-02	93	4.2E-02	93

Notes:

- 1 - Shading indicates that the chemical is screened out from further evaluation.
- 2 - Metals shown for only the depth intervals which exceed background based on the comparison with the RZ-A dataset (see Attachment 2 Table 2A) and exceed the LBCL for DAF=1.
- 3 - The generic LBCL is used for chemicals without an established LBCL. Where applicable, the adjusted LBCL is used based on the NDEP approved hierarchy for RBGCs (See Attachment 3 Table 2A).
- 4 - LSSLs are calculated for chemicals with at least one detection greater than the LBCL (DAF=20) in any remediation zone. They are based on an infiltration=0.14 ft/y and an foc=0.001.
- 5 - Groundwater exceedances are based on the highest result from each well sampled during Site-wide Phase B investigations.
- 6 - Soil statistics use Phase A and Phase B investigation data. Normal environmental samples and field duplicates are treated as independent samples.

Abbreviations:

- DAF = Dilution attenuation factor (NDEP, 2009)
 LBCL = Leaching-based, basic comparison level (NDEP, 2009)
 LSSL = Leaching-based, site-specific level (NDEP, 2009)
 NC = LSSL not calculated
 RBGC = Risk-based groundwater concentration
 mg/kg = milligrams per kilogram