TABLE 1D
Screening of Inorganic Chemicals in RZ-E 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	Arsenic	0 - 2 ft	19	19	100%	385	96	1.0E+00	18	2.0E+01	4	4.6E+01	1
	Arsenic	2 - 10 ft	17	17	100%	5		1.0E+00	17	2.0E+01	0	4.6E+01	0
	Barium	0 - 10 ft	36	36	100%	685	0	8.2E+01	35	1.6E+03	0	2.4E+04	0
	Boron	0 - 10 ft	36	17	47%	113	18	2.3E+01	8	4.7E+02	0	4.0E+03	0
	Chromium (Total)	0 - 2 ft	19	19	100%	1470	48	2.0E+00	19	4.0E+01	8	3.8E+03	0
	Chromium (Total)	2 - 10 ft	17	17	100%	26.4		2.0E+00	17	4.0E+01	0	3.8E+03	0
	Chromium (VI)	0 - 10 ft	36	21	58%	37	46	2.0E+00	9	4.0E+01	0	6.4E+02	0
	Chromium (VI)	10 ft - UMCf	15	6	40%	5		2.0E+00	2	4.0E+01	0	6.4E+02	0
	Cobalt	0 - 10 ft	36	36	100%	63	6	4.9E-01	36	9.9E+00	15	8.6E+01	0
	Copper	0 - 10 ft	36	36	100%	446	0	4.6E+01	9	9.2E+02	0	NC	0
	Lead	0 - 10 ft	36	36	100%	2210	2	1.4E+01	18	2.7E+02	5	3.2E+03	0
	Magnesium	0 - 2 ft	19	19	100%	48000	49	9.7E+02	19	1.9E+04	4	6.0E+04	0
	Manganese	0 - 10 ft	36	36	100%	13800	18	3.3E+01	36	6.7E+02	12	2.4E+03	5
	Molybdenum	0 - 2 ft	19	19	100%	11	2	3.6E+00	5	7.3E+01	0	1.7E+03	0
	Nickel	0 - 10 ft	36	36	100%	85	0	7.0E+00	36	1.4E+02	0	3.0E+05	0
	Selenium	0 - 10 ft	36	8	22%	4	0	3.0E-01	8	6.0E+00	0	NC	0
	Silver	0 - 10 ft	36	14	39%	3	0	1.6E+00	2	3.1E+01	0	NC	0
	Thallium	0 - 10 ft	36	32	89%	1	0	4.0E-01	8	8.0E+00	0	6.4E+01	0
Perchlorate	Perchlorate	0 - 10 ft	36	35	97%	22800	84	3.6E-03	35	7.2E-02	35	4.2E-02	35
	Perchlorate	10 ft - UMCf	15	15	100%	295		3.6E-03	15	7.2E-02	15	4.2E-02	15

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 2D) 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