

**TABLE 3-1.
BATCH LEACHING TEST RESULTS**

Analyte (mg/L)	EPA Drinking Water Criteria	Aquatic & Wildlife Habitat (Acute) ¹	Aquatic & Wildlife Habitat (Chronic) ¹	Livestock (LW) ¹	Initial Coal Water Sample	Initial Coal Water DUP	Initial Synthetic Precipitation	Spoil SPLP	Spoil 45-Day	Spoil Leachate	Spoil Leachate Dup
Al ³		0.750 mg/L	0.087 mg/L	NCNS	0.13	0.14	0.056	< 0.05	0.38	0.29	0.3
Sb	0.0056				<< 0.0067	<< 0.0067	<< 0.0067	<< 0.0067	<< 0.0067	<< 0.0067	<< 0.0067
As	0.01	0.340 mg/L D	0.150 mg/L D	0.200 mg/L	<< 0.015	<< 0.015	<< 0.015	<< 0.015	<< 0.015	<< 0.015	<< 0.015
Ba	1	NCNS	NCNS	NCNS	0.093	0.088		0.07	0.079	0.25	0.2
Be	0.004				< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
HCO ₃					1300	1200		33	960	1000	1000
B	0.63	NCNS	NCNS	5.0 mg/L D	0.31	0.29		0.084	0.36	0.44	0.45
Cd ²	0.005	0.005	0.0005	0.05 mg/L	<< 0.00051	<< 0.00051	<< 0.00051	<< 0.00051	<< 0.00051	< 0.006, 0.00087*	<< 0.00051
Ca					3.4	3.3	0.27	150	56	64	69
CO ₃					260	300	< 7	14	< 7	< 7	< 7
Cl	250				710	700		1.5	600	610	610
Cr (III + VI) ²	0.1	1.2	0.156	1.0 mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Co		NCNS	NCNS	1.0 mg/L D	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cu	1.3	0.032	0.019	0.5 mg/L D	< 0.005	< 0.005	< 0.005	< 0.005	0.053	< 0.005	< 0.005
F	2	NCNS	NCNS	NCNS	2.4	2.5	0.0067	0.54	1.5	1.6	1.6
Fe	0.3				0.067	0.073	< 0.05	< 0.05	< 0.05	0.17	0.18
Pb	0.015	0.171	0.007	0.100 mg/L	<< 0.011	<< 0.011	<< 0.011	<< 0.011	<< 0.011	<< 0.011	<< 0.011
Li					< 0.1	< 0.1	< 0.1	< 0.1	0.11	0.1	0.1
Mg					1.3	1.2		15	12	13	13
Mn	0.05 ³				< 0.01	< 0.01	< 0.01	0.19	0.098	0.11	0.1
Hg	0.002	0.0024 mg/L	0.000001 mg/L	NCNS	<< 0.00005	<< 0.00005	<< 0.00005	<< 0.00005	<< 0.00005	< 0.00024, 0.0001*	< 0.0002, 0.00008*
Mo		NCNS	NCNS	NCNS	0.012	< 0.01	< 0.01	< 0.01	0.015	0.014	0.014
Ni	0.61	1.011	0.112	NCNS	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
pH (standard units)	6.5 - 9.0	6.5 - 9.0	6.5 - 9.0	6.5 - 9.0	9	8.9	5	7.5	8	8	7.9
K					11	10	< 1	7	14	14	14
Se	0.05	0.033 mg/L	0.002 mg/L	0.05 mg/L	<< 0.026	<< 0.026	<< 0.026	<< 0.026	<< 0.026	<< 0.026	<< 0.026
Ag	0.035	0.0154	NCNS	NCNS	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Na					1200	1100	5.7	150	1200	1200	1200
SO ₄	250				300	260	3.4	670	930	970	990
Tl	0.0017	0.700 mg/L D	0.150 mg/L D	NCNS	<< 0.011	<< 0.011	<< 0.011	<< 0.011	< 0.4, 0.014*	<< 0.011	<< 0.011
TDS	500				3100	3000	28	1200	3500	3500	3600
V		NCNS	NCNS	0.100 mg/L D	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Zn	5	0.253	0.255	25 mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0095

¹ Navajo Nation Water Quality Program, 2007, Navajo Nation Surface Water Quality Standards

² Hardness dependent criteria in NN SWQ Standards 2007 calculated based on median hardness for Chinde Arroyo of 248.5 mg/L as CaCO₃. ² Hardness dependent criteria in NN SWQ Standards 2007 for Cr(III) only

³ pH 6.5 - 9

<< Reported value is less than the MDL

*Above MDL, but below PQL

D - Dissolved NCNS - No Current Numeric Standard