

Table 1
2021 Confirmation Soil Analytical Results Terrestrial Ecological Evaluation
Energy Northwest IDC Firing Range
Benton County, Washington

Sampling Location	Field Sample ID	Lab Sample ID	Sampling Date	Total Metals (SW-846 6020A, 7471B; mg/kg)							
				Arsenic (As)	Barium (Ba)	Cadmium (Cd)	Total Chromium (Cr)	Lead (Pb)	Mercury (Hg) (7471A)	Selenium (Se)	Silver (Ag)
MTCA Method A CUL (Unrestricted Uses):				20	N/A	2	2,000 ^a	250	2	N/A	N/A
Simplified TEE Screening Levels (Unrestricted Uses):				20 ^b	1,250	25	42	220	0.7 ^c	0.8	^d
S1	IDCFR-S1(exc)	05-208-07	5/19/2021	18	88	0.51 U	9.5	19	0.26 U	10 U	1.0 U
S2	IDCFR-S2(exc)	05-208-08	5/19/2021	10 U	72	0.52 U	10	17	0.26 U	10 U	1.0 U
S3	IDCFR-S3(exc)	05-208-09	5/19/2021	12	67	0.51 U	8.2	8.4	0.26 U	10 U	1.0 U
S4	IDCFR-S4(exc)	05-208-10	5/19/2021	10 U	67	0.51 U	9.1	5.7	0.26 U	10 U	1.0 U
S5	IDCFR-S5(exc)	05-208-11	5/19/2021	10 U	70	0.51 U	7.8	86	0.26 U	10 U	1.0 U
S6	IDCFR-S6(exc)	05-208-12	5/19/2021	10 U	64	0.51 U	8.9	36	0.26 U	10 U	1.0 U
S7	IDCFR-S7(exc)	05-208-13	5/19/2021	10 U	78	0.52 U	8.8	7.1	0.26 U	10 U	1.0 U
S8	IDCFR-S8(exc)	05-208-14	5/19/2021	10 U	67	0.51 U	6.7	17	0.26 U	10 U	1.0 U
S9	IDCFR-S9(exc)	05-208-15	5/19/2021	10 U	65	0.52 U	6.2	5.2 U	0.26 U	10 U	1.0 U
S10	IDCFR-S10(exc)	05-208-16	5/19/2021	10 U	79	0.51 U	8.4	5.1 U	0.26 U	10 U	1.0 U
S11	IDCFR-S11(exc)	05-208-17	5/19/2021	10 U	72	0.52 U	8.6	900	0.26 U	10 U	1.0 U
S11R	IDCFR-S11(exc)-R	05-277-01	5/27/2021	10 U	62	0.51 U	8.7	170	0.26 U	10 U	1.0 U
S12	IDCFR-S12(exc)	05-208-18	5/19/2021	18	63	0.51 U	8.5	19	0.25 U	10 U	1.0 U
S13	IDCFR-S13(exc)	05-208-19	5/19/2021	10 U	77	0.52 U	8.7	30	0.26 U	10 U	1.0 U
S14	IDCFR-S14(exc)	05-208-20	5/19/2021	10 U	71	0.51 U	7.7	5.1 U	0.26 U	10 U	1.0 U
S15	IDCFR-S15(exc)	05-208-21	5/19/2021	10 U	64	0.51 U	6.8	56	0.26 U	10 U	1.0 U
S16	IDCFR-S16(exc)	05-208-22	5/19/2021	10 U	64	0.52 U	7.7	39	0.26 U	10 U	1.0 U
S17	IDCFR-S17(exc)	05-208-23	5/19/2021	10 U	73	0.51 U	7.6	39	0.26 U	10 U	1.0 U
S18	IDCFR-S18(exc)	05-208-24	5/19/2021	10 U	70	0.52 U	6.5	15	0.26 U	10 U	1.0 U
S19	IDCFR-S19(exc)	05-208-25	5/19/2021	10 U	75	0.50 U	9.6	11	0.25 U	10 U	1.0 U
S20	IDCFR-S20(exc)	05-208-26	5/19/2021	10 U	72	0.51 U	8.6	31	0.26 U	10 U	1.0 U
S21	IDCFR-S21(exc)	05-208-27	5/19/2021	10 U	74	0.51 U	8.6	5.1 U	0.26 U	10 U	1.0 U
S22	IDCFR-S22(exc)	05-208-28	5/19/2021	14	71	0.51 U	8.9	45	0.25 U	10 U	1.0 U
S23	IDCFR-S23(exc)	05-208-29	5/19/2021	11	82	0.51 U	9.2	22	0.26 U	10 U	1.0 U
S24	IDCFR-S24(exc)	05-277-02	5/27/2021	11 U	80	0.53 U	10	39	0.26 U	11 U	1.1 U

Notes:

Laboratory results have not been validated per EPA National Functional Guidelines.

Bold text indicates detected analyte.

Green shading indicates detected analyte exceeds applicable cleanup level.

U = Compound was undetected at the reported concentration

^a MTCA Method A CULs are 19 mg/kg for hexavalent chromium and 2,000 mg/kg for trivalent chromium. There is not an established CUL for total chromium. The background concentration for total chromium in Washington state is 42 mg/kg.

^b Value for arsenic III.

^c Value for organic mercury.

^d Safe concentration has not yet been established per Ecology.

Acronyms/Abbreviations:

CUL = cleanup level

EPA = US Environmental Protection Agency

mg/kg = milligrams per kilogram

MTCA = Model Toxics Control Act

N/A = not applicable

TEE = terrestrial ecological evaluation

Table 2
2021 Stockpile Soil Analytical Results Terrestrial Ecological Evaluation
Energy Northwest IDC Firing Range
Benton County, Washington

Sampling Location	Field Sample ID	Lab Sample ID	Sampling Date	Total Metals (SW-846 6020A, 7471B; mg/kg)								Leachate Metals (SW-846 6020A, 7471B (TCLP); mg/L)							
				Arsenic (As)	Barium (Ba)	Cadmium (Cd)	Total Chromium (Cr)	Lead (Pb)	Mercury (Hg) (7471A)	Selenium (Se)	Silver (Ag)	Arsenic (As)	Barium (Ba)	Cadmium (Cd)	Total Chromium (Cr)	Lead (Pb)	Mercury (Hg) (7471A)	Selenium (Se)	Silver (Ag)
MTCA Method A CUL (Unrestricted Uses):				20	N/A	2	2,000 ^a	250	2	N/A	N/A					5.0 ^b			
Simplified TEE Screening Levels (Unrestricted Uses):				20 ^c	1,250	25	42	220	0.7 ^d	0.8	^e						0.8 ^f		
Stockpile-1	IDCFR-SP1	05-208-01	5/19/2021	10 U	68	0.52 U	9.0	27	0.26 U	10 U	1.0 U	0.40 U	0.73	0.050 U	0.050 U	0.20 U	0.0050 U	0.40 U	0.050 U
Stockpile-1	IDCFR-SP2	05-208-02	5/19/2021	10 U	66	0.52 U	8.3	27	0.26 U	10 U	1.0 U	0.51	0.50	0.050 U	0.050 U	0.20 U	0.0050 U	0.40 U	0.050 U
Stockpile-1	IDCFR-SP3	05-208-03	5/19/2021	10 U	70	0.52 U	9.1	29	0.26 U	10 U	1.0 U	0.40 U	0.61	0.050 U	0.050 U	0.20 U	0.0050 U	0.40 U	0.050 U
Stockpile-2	IDCFR-SP4	05-208-04	5/19/2021	10 U	73	0.52 U	8.4	160	0.26 U	10 U	1.0 U	0.40 U	0.61	0.050 U	0.050 U	1.3	0.0050 U	0.40 U	0.050 U
Stockpile-2	IDCFR-SP5	05-208-05	5/19/2021	10 U	67	0.52 U	8.6	160	0.26 U	10 U	1.0 U	0.40 U	0.66	0.050 U	0.050 U	5.3	0.0050 U	0.40 U	0.050 U
Stockpile-2	IDCFR-SP6	05-208-06	5/19/2021	10 U	68	0.51 U	8.6	120	0.26 U	10 U	1.0 U	0.40 U	0.71	0.050 U	0.050 U	1.7	0.0050 U	0.40 U	0.050 U
Stockpile-1	IDCFR-SP7	05-277-03	5/27/2021	10 U	70	0.51 U	9.3	47	0.25 U	10 U	1.0 U	0.40 U	0.52	0.050 U	0.050 U	0.28	0.0050 U	0.40 U	0.050 U
Stockpile-1	IDCFR-SP8	05-277-04	5/27/2021	10 U	69	0.50 U	8.3	21	0.25 U	10 U	1.0 U	0.40 U	0.48	0.050 U	0.050 U	0.20 U	0.0050 U	0.40 U	0.050 U
Stockpile-2	IDCFR-SP9	05-277-05	5/27/2021	10 U	65	0.50 U	8.2	170	0.25 U	10 U	1.0 U	0.40 U	0.65	0.050 U	0.050 U	13	0.0050 U	0.40 U	0.050 U
Stockpile-2	IDCFR-SP10	05-277-06	5/27/2021	10 U	66	0.50 U	8.2	120	0.25 U	10 U	1.0 U	0.40 U	0.58	0.050 U	0.050 U	2.3	0.0050 U	0.40 U	0.050 U

Notes:

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^a MTCA Method A CULs are 19 mg/kg for hexavalent chromium and 2,000 mg/kg for trivalent chromium. There is not an established CUL for total chromium. The background concentration for total chromium in Washington state is 42 mg/kg.

^b EPA TCLP threshold.

^c Value for arsenic III.

^d Value for organic mercury.

^e Safe concentration has not yet been established per Ecology.

^f Screening level is in mg/kg.

Acronyms/Abbreviations:

CUL = cleanup level

EPA = US Environmental Protection Agency

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

MTCA = Model Toxics Control Act

N/A = not applicable

TCLP = toxicity characteristic leaching procedure

TEE = terrestrial ecological evaluation