

Table 1. ²³⁴U/²³⁸U activity ratios and uranium concentrations.

Sample ID	Latitude	Longitude	²³⁴ U/ ²³⁸ U Activity ratio	²³⁴ U/ ²³⁸ U AR SD	Uranium µg/L	Sample type
TC08B10-4	36.12260	-111.20539	2.04	0.024	1.00	DI leachate
TC08B10-4 TCLP	36.12260	-111.20539	2.03	0.002	19.5	TCLP leachate
TC08B12-1	36.12517	-111.20395	1.56	0.051	0.04	DI leachate
TC08B12-2	36.12517	-111.20395	1.53	0.047	0.05	DI leachate
TC08B12-3	36.12517	-111.20395	1.77	0.069	0.10	DI leachate
TC08B12-4	36.12517	-111.20395	1.90	0.024	3.28	DI leachate
TC08B12-4 DUP	36.12517	-111.20395	1.96	0.005	2.08	DI leachate
TC08B12-4 TCLP	36.12517	-111.20395	2.04	0.005	22.8	TCLP leachate
TC08B12-5	36.12517	-111.20395	1.99	0.046	1.46	DI leachate
TC08B12-5 TCLP	36.12517	-111.20395	2.06	0.011	22.4	TCLP leachate
TC08B12-6	36.12517	-111.20395	1.92	0.018	0.12	DI leachate
TC08B12-7	36.12517	-111.20395	2.01	0.040	0.06	DI leachate
TC08B12-8	36.12517	-111.20395	1.61	0.068	0.04	DI leachate
TC08B12-9	36.12517	-111.20395	1.62	0.164	0.03	DI leachate
TC08B12-10	36.12517	-111.20395	1.86	0.019	0.05	DI leachate
TC08B12-10 TCLP	36.12517	-111.20395	2.07	0.002	3.36	TCLP leachate
TC08B12-11	36.12517	-111.20395	1.93	0.049	0.05	DI leachate
TC08B12-11 TCLP	36.12517	-111.20395	2.17	0.017	2.62	TCLP leachate
TC08B12	36.12517	-111.20395	2.13	0.003	25.9	groundwater piezometer
TC08B12 Lab Dup	36.12517	-111.20395	2.13	0.009	27.8	groundwater piezometer
TC08B15-1	36.12247	-111.20520	1.25	0.033	0.88	DI leachate
TC08B15-2	36.12247	-111.20520	1.82	0.031	2.28	DI leachate
TC08B15-3	36.12247	-111.20520	1.88	0.034	0.37	DI leachate
TC08B15-4	36.12247	-111.20520	2.01	0.045	0.18	DI leachate
TC08B15-4 TCLP	36.12247	-111.20520	2.07	0.009	4.55	TCLP leachate
TC08B15-4 TCLP DUP	36.12247	-111.20520	2.07	0.009	4.85	TCLP leachate
TC08B15-5	36.12247	-111.20520	1.96	0.078	0.10	DI leachate
TC08B15-6	36.12247	-111.20520	1.93	0.080	0.08	DI leachate
TC08B15-7	36.12247	-111.20520	1.68	0.078	0.07	DI leachate
TC08B15-8	36.12247	-111.20520	1.92	0.041	0.09	DI leachate
TC08B15	36.12247	-111.20520	2.15	0.009	15.0	groundwater piezometer
TC08B24-1	36.12269	-111.20304	1.64	0.033	0.50	DI leachate
TC08B24-1 TCLP	36.12269	-111.20304	1.67	0.008	8.82	TCLP leachate
TC08B24-1 TCLP Lab Dup	36.12269	-111.20304	1.66	0.010	8.77	TCLP leachate
TC08B29-1	36.12247	-111.20584	0.84	0.002	0.08	DI leachate
TC08B29-1 TCLP	36.12247	-111.20584	1.30	0.045	0.42	TCLP leachate
TC08B29-2	36.12247	-111.20584	1.49	0.056	0.23	DI leachate
TC08B29-2 TCLP	36.12247	-111.20584	1.51	0.031	0.74	TCLP leachate
TCLFB29-3	36.12247	-111.20584	1.81	0.009	1.14	DI leachate
TC08B29-3 TCLP	36.12247	-111.20584	1.76	0.001	3.35	TCLP leachate
TCLFB29-4	36.12247	-111.20584	1.84	0.034	2.48	DI leachate
TC08B29-4 TCLP	36.12247	-111.20584	1.89	0.014	7.80	TCLP leachate
TCLFB29-5	36.12247	-111.20584	1.76	0.026	1.90	DI leachate
TC08B29-5 TCLP	36.12247	-111.20584	1.91	0.006	14.1	TCLP leachate
TC08B29-5 TCLP Lab Dup	36.12247	-111.20584	1.89	0.002	13.8	TCLP leachate
TCLFB29-6	36.12247	-111.20584	1.95	0.050	0.73	DI leachate
TC08B29-6 TCLP	36.12247	-111.20584	1.92	0.004	14.1	TCLP leachate
TC08B29-6 TCLP DUP	36.12247	-111.20584	1.92	0.007	14.9	TCLP leachate
TC08B29-7	36.12247	-111.20584	1.91	0.031	0.32	DI leachate
TC08B29-7 TCLP	36.12247	-111.20584	1.94	0.016	3.32	TCLP leachate
TC08B29-8	36.12247	-111.20584	1.90	0.039	0.31	DI leachate
TC08B29-9	36.12247	-111.20584	1.95	0.050	0.23	DI leachate
TC08B29-10	36.12247	-111.20584	2.05	0.021	0.24	DI leachate
TC08B29-11	36.12247	-111.20584	2.05	0.053	0.29	DI leachate
TC08B29-12	36.12247	-111.20584	2.05	0.033	0.16	DI leachate
TC08B29-13	36.12247	-111.20584	2.07	0.048	0.13	DI leachate
TC08B29-14	36.12247	-111.20584	2.01	0.024	0.08	DI leachate
TC08B29-15	36.12247	-111.20584	1.99	0.021	0.10	DI leachate
TC08B29-16	36.12247	-111.20584	1.96	0.053	0.16	DI leachate
TC08B29-17	36.12247	-111.20584	1.71	0.031	0.14	DI leachate
TC08B29-18	36.12247	-111.20584	2.04	0.023	0.11	DI leachate
TC09B29-19	36.12247	-111.20584	1.89	0.047	0.12	DI leachate
TC08B29-20	36.12247	-111.20584	2.02	0.031	0.09	DI leachate
TC08B29	36.12247	-111.20584	2.20	0.004	23.8	groundwater piezometer
TC08B33-1	36.12231	-111.20609	1.86	0.013	6.90	DI leachate
TC08B33-2	36.12231	-111.20609	1.95	0.030	0.44	DI leachate
TC08B33-2 TCLP	36.12231	-111.20609	1.85	0.005	5.52	TCLP leachate
TC08B33-3	36.12231	-111.20609	2.04	0.004	0.24	DI leachate
TC08B33-4	36.12231	-111.20609	2.10	0.009	0.26	DI leachate
TC08B33-5	36.12231	-111.20609	2.08	0.028	0.18	DI leachate
TC08B33-6	36.12231	-111.20609	1.73	0.138	0.28	DI leachate
TC08B33-6 TCLP	36.12231	-111.20609	2.03	0.002	10.5	TCLP leachate
TC08B33-7	36.12231	-111.20609	1.66	0.324	0.12	DI leachate
TC08B33-8	36.12231	-111.20609	na	na	0.05	DI leachate
TC08B33-9	36.12231	-111.20609	na	na	0.05	DI leachate
TC08B33-10	36.12231	-111.20609	na	na	0.06	DI leachate
TC08B33-11	36.12231	-111.20609	na	na	0.02	DI leachate
TC08B33-12	36.12231	-111.20609	1.57	0.356	0.07	DI leachate
TC08B33-13	36.12231	-111.20609	2.00	0.079	0.12	DI leachate
TC08B33-13 TCLP	36.12231	-111.20609	2.07	0.005	3.06	TCLP leachate
TC08B33-14	36.12231	-111.20609	2.08	0.025	0.17	DI leachate
TC08B33	36.12231	-111.20609	2.13	0.004	107.4	groundwater piezometer
TC08B34	36.12210	-111.20609	2.06	0.012	27.6	groundwater piezometer
MW-14	36.11919	-111.20581	1.68	0.016	19.7	groundwater monitoring well
MW-14 Lab Dup	36.11919	-111.20581	1.67	0.012	19.9	groundwater monitoring well
WP-05	36.12262	-111.20449	2.05	0.013	17.8	groundwater monitoring well
WP-08	36.12246	-111.20647	1.84	0.009	80.5	groundwater monitoring well
WP-10	36.12046	-111.20932	2.08	0.002	50.2	groundwater monitoring well
MW-29	36.11760	-111.21016	2.03	0.010	49.3	groundwater monitoring well
TC08RK-02A	36.10004	-111.24124	1.04	0.040	0.06	DI leachate
TC08RK-02B	36.10004	-111.24124	1.43	0.056	0.23	DI leachate
TC08RK-02C	36.10004	-111.24124	1.49	0.052	0.14	DI leachate
TC08RK-02D	36.10004	-111.24124	1.37	0.026	0.34	DI leachate
TC08RK-05	36.13311	-111.19073	1.73	0.013	0.07	DI leachate
TC08SS02	36.12009	-111.20835	1.74	0.046	1.63	DI leachate
TC08SS02-TCLP	36.12009	-111.20835	1.87	0.013	17.2	TCLP leachate
TC08SS03A	36.12000	-111.20784	na	na	0.02	DI leachate
TC08SS03B	36.12000	-111.20784	1.39	0.018	0.43	DI leachate
TC08SS03C	36.12000	-111.20784	1.40	0.055	0.84	DI leachate
TC08SS03D	36.12000	-111.20784	1.58	0.016	1.15	DI leachate
TC08SS03E	36.12000	-111.20784	1.59	0.277	0.89	DI leachate
TC08SS06	36.12060	-111.20861	1.71	0.007	3.40	DI leachate
TC08SS06 Lab Dup	36.12060	-111.20861	1.72	0.017	3.39	DI leachate
WP-01S-7.5	36.12165	-111.21230	1.28	0.038	0.16	DI leachate
WP-01S-10	36.12165	-111.21230	1.28	0.011	0.08	DI leachate
WP-01S-12.5	36.12165	-111.21230	1.23	0.044	0.10	DI leachate
WP-01S-15	36.12165	-111.21230	1.19	0.083	0.10	DI leachate
WP-01S-17.5	36.12165	-111.21230	1.41	0.024	0.08	DI leachate
WP-01S-20	36.12165	-111.21230	1.64	0.012	0.66	DI leachate
WP-01S-20 Lab Dup	36.12165	-111.21230	1.68	0.016	0.75	DI leachate
WP-01S-22.5	36.12165	-111.21230	1.46	0.024	0.99	DI leachate
WP-01S-25	36.12165	-111.21230	1.65	0.046	3.00	DI leachate
WP-01S-25 TCLP	36.12165	-111.21230	1.69	0.004	60.3	TCLP leachate
WP-01S-27.5	36.12165	-111.21230	1.80	0.033	0.19	DI leachate
WP-01S-30	36.12165	-111.21230	na	na	0.05	DI leachate
WP-01S-32.5	36.12165	-111.21230	na	na	0.02	DI leachate
WP-01S-35	36.12165	-111.21230	na	na	0.02	DI leachate
WP-01S-35 TCLP	36.12165	-111.21230	1.55	0.012	2.36	TCLP leachate
WP-01S-37.5	36.12165	-111.21230	na	na	0.04	DI leachate
WP-07-1	36.12577	-111.19420	1.47	0.085	0.21	DI leachate
WP-07-2	36.12577	-111.19420	1.32	0.017	0.40	DI leachate
WP-07-3	36.12577	-111.19420	na	na	0.02	DI leachate
WP-07-4-5	36.12577	-111.19420	na	na	0.01	DI leachate
WP-07-6	36.12577	-111.19420	na	na	0.01	DI leachate
WP-07-8-9	36.12577	-111.19420	na	na	0.02	DI leachate

Abbreviations:

- AR = activity ratio
- SD = standard deviation
- µg/L = micrograms per liter
- na = not available, uranium concentration is too low to measure ²³⁴U/²³⁸U activity ratio
- DI = deionized water
- TCLP = toxic characteristics leaching procedure
- DUP = collection duplicate
- Lab Dup = second sample run in laboratory

Notes:

- Latitude and longitude measurement datum is WGS84 using a handheld global positioning system unit.
- WP-07-4-5 is WP-07-4 and WP-07-5 combined due to low sample quantity.
- WP-07-8-9 is WP-07-8 and WP-07-9 combined due to low sample quantity.