

Table C-3. Quarterly Cesium-137, Strontium-90, and Actinide Concentrations in Composite Air Filters.

Sampling Group and Location	Sampling Date	Analyte	Result ± 1s Uncertainty (x 10 ⁻¹⁸ µCi/mL)			Result ± 1s Uncertainty (x 10 ⁻¹⁴ Bq/mL)			Result > 3s
BOUNDARY									
ARCO	12/27/17	CESIUM-137	-7.65	±	78.90	-28.31	±	291.93	No
ATOMIC CITY	12/27/17	AMERICIUM-241	-0.62	±	2.06	-2.29	±	7.62	No
	12/27/17	CESIUM-137	83.30	±	67.00	308.21	±	247.90	No
	12/27/17	PLUTONIUM-238	6.62	±	3.19	24.49	±	11.80	No
	12/27/17	PLUTONIUM-239/240	-6.60	±	4.65	-24.42	±	17.21	No
BLUE DOME	12/27/17	CESIUM-137	60.40	±	65.00	223.48	±	240.50	No
FAA TOWER	12/27/17	CESIUM-137	-6.29	±	123.00	-23.27	±	455.10	No
HOWE	12/27/17	CESIUM-137	-205.00	±	120.00	-758.50	±	444.00	No
	12/27/17	STRONTIUM-90	-5.31	±	8.96	-19.65	±	33.15	No
MONTEVIEW	12/27/17	AMERICIUM-241	1.77	±	1.39	6.55	±	5.14	No
	12/27/17	CESIUM-137	-76.00	±	111.00	-281.20	±	410.70	No
	12/27/17	PLUTONIUM-238	-0.83	±	2.78	-3.07	±	10.29	No
	12/27/17	PLUTONIUM-239/240	-1.65	±	2.71	-6.11	±	10.03	No
MUD LAKE	12/27/17	CESIUM-137	15.90	±	103.00	58.83	±	381.10	No
	12/27/17	STRONTIUM-90	-1.23	±	6.55	-4.55	±	24.24	No
DISTANT									
BLACKFOOT	12/27/17	CESIUM-137	0.00	±	116.00	0.00	±	429.20	No
	12/27/17	STRONTIUM-90	9.82	±	8.59	36.33	±	31.78	No
QA-1 (BLACKFOOT)	12/27/17	CESIUM-137	54.50	±	111.00	201.65	±	410.70	No
	12/27/17	STRONTIUM-90	-3.19	±	6.91	-11.80	±	25.57	No
CRATERS	12/27/17	CESIUM-137	117.00	±	111.00	432.90	±	410.70	No
DUBOIS	12/27/17	CESIUM-137	-71.20	±	85.40	-263.44	±	315.98	No
IDAHO FALLS	12/27/17	CESIUM-137	56.10	±	100.00	207.57	±	370.00	No
	12/27/17	STRONTIUM-90	-11.70	±	9.94	-43.29	±	36.78	No
JACKSON	12/27/17	AMERICIUM-241	1.37	±	1.52	5.07	±	5.62	No
	12/27/17	CESIUM-137	57.80	±	77.10	213.86	±	285.27	No
	12/27/17	PLUTONIUM-238	3.04	±	2.43	11.25	±	8.99	No
	12/27/17	PLUTONIUM-239/240	4.54	±	2.57	16.80	±	9.51	No
SUGAR CITY	12/27/17	AMERICIUM-241	0.53	±	1.48	1.96	±	5.48	No
	12/27/17	CESIUM-137	30.80	±	78.70	113.96	±	291.19	No
	12/27/17	PLUTONIUM-238	0.00	±	3.88	0.00	±	14.36	No
	12/27/17	PLUTONIUM-239/240	-7.85	±	5.27	-29.05	±	19.50	No
QA-2 (SUGAR CITY)	12/27/17	AMERICIUM-241	-4.51	±	2.34	-16.69	±	8.66	No
	12/27/17	CESIUM-137	-17.70	±	99.20	-65.49	±	367.04	No

Table C-3. Quarterly Cesium-137, Strontium-90, and Actinide Concentrations in Composite Air Filters.

	12/27/17	PLUTONIUM-238	1.71	±	2.86	6.33	±	10.58	No
	12/27/17	PLUTONIUM-239/240	0.85	±	2.98	3.15	±	11.03	No
INL SITE									
EFS	12/27/17	AMERICIUM-241	-5.18	±	108.00	-19.17	±	399.60	No
	12/27/17	CESIUM-137	-27.00	±	3.85	-99.90	±	14.25	No
	12/27/17	PLUTONIUM-238	1.74	±	4.00	6.44	±	14.80	No
	12/27/17	PLUTONIUM-239/240	-2.89	±	123.00	-10.69	±	455.10	No
MAIN GATE	12/27/17	CESIUM-137	-16.00	±	84.20	-59.20	±	311.54	No
	12/27/17	STRONTIUM-90	-15.30	±	7.90	-56.61	±	29.23	No
VAN BUREN GATE	12/27/17	AMERICIUM-241	-1.21	±	1.57	-4.48	±	5.81	No
	12/27/17	CESIUM-137	118.00	±	109.00	436.60	±	403.30	No
	12/27/17	PLUTONIUM-238	8.05	±	3.60	29.79	±	13.32	No
	12/27/17	PLUTONIUM-239/240	0.45	±	3.78	1.67	±	13.99	No