

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

Sampling Group and Location	Sampling Date	Analyte	Result \pm 1s Uncertainty ($\times 10^{-18}$ μ Ci/mL)			Result \pm 1s Uncertainty ($\times 10^{-14}$ Bq/mL)			Result > 3s
BOUNDARY									
ARCO	09/27/17	CESIUM-137	-115.00	\pm	100.00	-425.50	\pm	370.00	No
ATOMIC CITY	09/27/17	CESIUM-137	-36.70	\pm	78.90	-135.79	\pm	291.93	No
	09/27/17	STRONTIUM-90	-5.28	\pm	6.45	-19.55	\pm	23.88	No
BLUE DOME	09/27/17	CESIUM-137	-43.20	\pm	103.00	-159.84	\pm	381.10	No
FAA TOWER	09/27/17	CESIUM-137	112.00	\pm	115.00	414.40	\pm	425.50	No
HOWE	09/27/17	CESIUM-137	174.00	\pm	89.80	643.80	\pm	332.26	No
	09/27/17	STRONTIUM-90	-8.94	\pm	6.79	-33.07	\pm	25.13	No
MONTEVIEW	09/27/17	CESIUM-137	-112.00	\pm	90.30	-414.40	\pm	334.11	No
	09/27/17	STRONTIUM-90	-17.50	\pm	7.46	-64.76	\pm	27.60	No
MUD LAKE	09/27/17	AMERICIUM-241	1.92	\pm	0.50	7.09	\pm	1.84	Yes
	09/27/17	CESIUM-137	81.40	\pm	115.00	301.18	\pm	425.50	No
	09/27/17	PLUTONIUM-238	0.74	\pm	0.61	2.75	\pm	2.27	No
	09/27/17	PLUTONIUM-239/240	0.15	\pm	0.15	0.55	\pm	0.55	No
DISTANT									
BLACKFOOT	09/27/17	AMERICIUM-241	0.94	\pm	0.34	3.49	\pm	1.26	No
	09/27/17	CESIUM-137	244.00	\pm	104.00	902.80	\pm	384.80	No
	09/27/17	PLUTONIUM-238	2.11	\pm	0.59	7.82	\pm	2.19	Yes
	09/27/17	PLUTONIUM-239/240	0.49	\pm	0.28	1.81	\pm	1.04	No
QA-1 (BLACKFOOT)	09/27/17	AMERICIUM-241	1.34	\pm	0.42	4.98	\pm	1.54	Yes
	09/27/17	CESIUM-137	53.30	\pm	114.00	197.21	\pm	421.80	No
	09/27/17	PLUTONIUM-238	0.83	\pm	0.34	3.08	\pm	1.26	No
	09/27/17	PLUTONIUM-239/240	1.80	\pm	0.50	6.68	\pm	1.86	Yes
CRATERS	09/27/17	CESIUM-137	37.50	\pm	113.00	138.75	\pm	418.10	No
DUBOIS	09/27/17	CESIUM-137	37.20	\pm	93.80	137.64	\pm	347.06	No
IDAHO FALLS	09/27/17	AMERICIUM-241	0.98	\pm	0.46	3.62	\pm	1.71	No
	09/27/17	CESIUM-137	160.00	\pm	140.00	592.00	\pm	518.00	No
	09/27/17	PLUTONIUM-238	0.92	\pm	0.38	3.42	\pm	1.40	No
	09/27/17	PLUTONIUM-239/240	0.92	\pm	0.38	3.42	\pm	1.40	No
JACKSON	09/27/17	AMERICIUM-241	1.08	\pm	0.37	3.98	\pm	1.36	No
	09/27/17	CESIUM-137	-39.80	\pm	108.00	-147.26	\pm	399.60	No
	09/27/17	PLUTONIUM-238	2.51	\pm	0.65	9.29	\pm	2.42	Yes
	09/27/17	PLUTONIUM-239/240	0.33	\pm	0.47	1.24	\pm	1.75	No
SUGAR CITY	09/27/17	CESIUM-137	166.00	\pm	88.10	614.20	\pm	325.97	No
	09/27/17	STRONTIUM-90	0.63	\pm	6.70	2.34	\pm	24.81	No

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

QA-2 (SUGAR CITY)	09/27/17	CESIUM-137	26.60	±	116.00	98.42	±	429.20	No
	09/27/17	STRONTIUM-90	7.51	±	7.08	27.78	±	26.21	No
INL SITE									
EFS	09/27/17	CESIUM-137	249.00	±	154.00	921.30	±	569.80	No
	09/27/17	STRONTIUM-90	-8.08	±	8.81	-29.91	±	32.61	No
MAIN GATE	09/27/17	AMERICIUM-241	0.54	±	0.45	2.00	±	1.65	No
	09/27/17	CESIUM-137	-65.60	±	88.50	-242.72	±	327.45	No
	09/27/17	PLUTONIUM-238	1.10	±	0.42	4.07	±	1.54	No
	09/27/17	PLUTONIUM-239/240	0.63	±	0.31	2.33	±	1.17	No
VAN BUREN GATE	09/27/17	CESIUM-137	-38.30	±	107.00	-141.71	±	395.90	No
	09/27/17	STRONTIUM-90	-3.04	±	6.37	-11.26	±	23.56	No