

APPENDIX F
Number of Samples Collected with Valid Analytical Results
versus Planned

Program Description	Sample Matrix	Analysis Method	Sampling Frequency	Number Completed	Number Planned	Percent Complete
Routine						
Air Particulate	Air Filter	ICP-MS, beryllium	Monthly	138	139	99
Air Particulate	Air Filter	Gross α / β	Biweekly	713	744	96
Air Particulate	Air Filter	Gamma spec suite of nine radionuclides	Monthly	36	36	100
Air Particulate	Air Filter	Alpha spec isotopes of Pu	Monthly	227	228	99
Air Particulate	Air Filter	ICP-MS isotopes of uranium	Monthly	133	135	99
Air Tritium	Silica gel	Tritium on silica gel by LCS	Biweekly	528	546	97
Liv Valley Annual Wells	Groundwater	Tritium in groundwater by LSC	Annually	14	17	82
Annual Soils	Soil	Tritium by LSC	Annually	4	4	100
Annual Soils	Soil	Gross α / β	Annually	4	8	50
Annual Soils	Soil	Gamma spectroscopy for a suite of ten radionuclides	Annually	30	30	100
Annual Soils	Soil	Alpha spectroscopy for isotopes or plutonium	Annually	18	18	100
Annual Soils	Soil	Total metals	Annually	12	12	100
B581 STACK data	Air Filter	Gross α / β	Weekly	51	52	98
B581 STACK data	Air Filter	Tritium by LSC	Weekly	51	52	98
B581 STACK data	Air Filter	Gamma spectroscopy for a suite of five radionuclides	Weekly	51	52	98
B581 STACK data	Air Filter	Iodine 131 by gamma spectroscopy	Weekly	51	52	98
TEDA Air Filter	Air Filter	Iodine 131 by gamma spectroscopy	Weekly	46	52	88
Wine	Wine	Tritium by LSC	Annually	12	12	100
Vegetation	Vegetation	Tritium by LSC	Quarterly	54	72	75
Valley Other Waters	Drinking Water	Gross α / β	Semi-annually	4	4	100
Valley Other Waters	Drinking Water	Tritium by LSC	Semi-annually	4	4	100

F. Number of Samples Collected with Valid Analytical Results versus Planned

Program Description	Sample Matrix	Analysis Method	Sampling Frequency	Number Completed	Number Planned	Percent Complete
Valley Other Waters	Groundwater	Gross α / β	Annually	5	6	83
Valley Other Waters	Groundwater	Tritium by LSC	Annually	5	6	83
Sewer Non-Rad	Wastewater	Solids by Methods 2540 and 160.4	Monthly (increased to weekly mid-year)	53	65	82
Sewer Non-Rad	Wastewater	Cyanide by Method 335.4	Quarterly	4	4	100
Sewer Non-Rad	Wastewater	Organochlorine pesticides by Method 608	Monthly	12	12	100
Sewer Non-Rad	Wastewater	Volatile organic compounds by Method 624	Monthly	13	13	100
Sewer Non-Rad	Wastewater	Semi-volatile organics by Method 625	Monthly	14	14	100
Sewer Non-Rad	Wastewater	Tritium by LSC	Annually	2	1	200
Sewer Non-Rad	Wastewater	Gross α / β and tritium	Weekly plus monthly duplicates	64	64	100
Sewer Non-Rad	Wastewater	Biochemical oxygen demand by SM 5210B	Monthly (increased to weekly mid-year)	53	65	82
Sewer Non-Rad	Wastewater	Metals by Method 200.8	Quarterly	4	4	100
Sewer Rad	Wastewater	Cesium 137 by gamma spectroscopy	Monthly	36	36	100
Sewer Rad	Wastewater	Gross α / β	Monthly	36	36	100
Sewer Rad	Wastewater	Gamma spectroscopy suite of nine radionuclides	Quarterly	4	3	133
Sewer Rad	Wastewater	Plutonium isotopes by alpha spectroscopy	Monthly (quarterly for L-WRDC-SW)	40	39	103
Sewer Rad	Wastewater	Tritium by LSC	Monthly composite of daily	11	12	92
Sewer Rad	Wastewater	Tritium by LSC	Monthly	36	36	100

F. Number of Samples Collected with Valid Analytical Results versus Planned

Sewer Rad	Wastewater	Gross α / β and tritium	Monthly gross α / β , daily tritium, plus duplicates	453	453	100
TLDs all Sites	Dosimeters	Thermoluminescent dosimetry	Quarterly	264	264	100
Non-Routine						
Pre-construction Soils	Soil	Soil reuse analytical suite	As needed	4,760	5,566	84
Industrial Management Area Storm Water Runoff	Stormwater	NPDES permit analytical suite	Storm dependent	67	162	41
Rain	Rain	Tritium by LSC	Storm dependent	8	17	47

See Chapter 8, Section 8.2.3.2, for more information about completeness. Data date June 29, 2022.

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