

Appendix C: Onsite Dosimeter Measurements and Locations

LOCATION	mrem ^a	
	NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021
ARA ^b I&II O-1	71	68
PBF ^c SPERT O-1	66	66

- Millirem (mrem) in ambient dose equivalent.
- Auxiliary Reactor Area (ARA).
- Power Burst Facility Special Power Excursion Reactor Test (PBF SPERT).

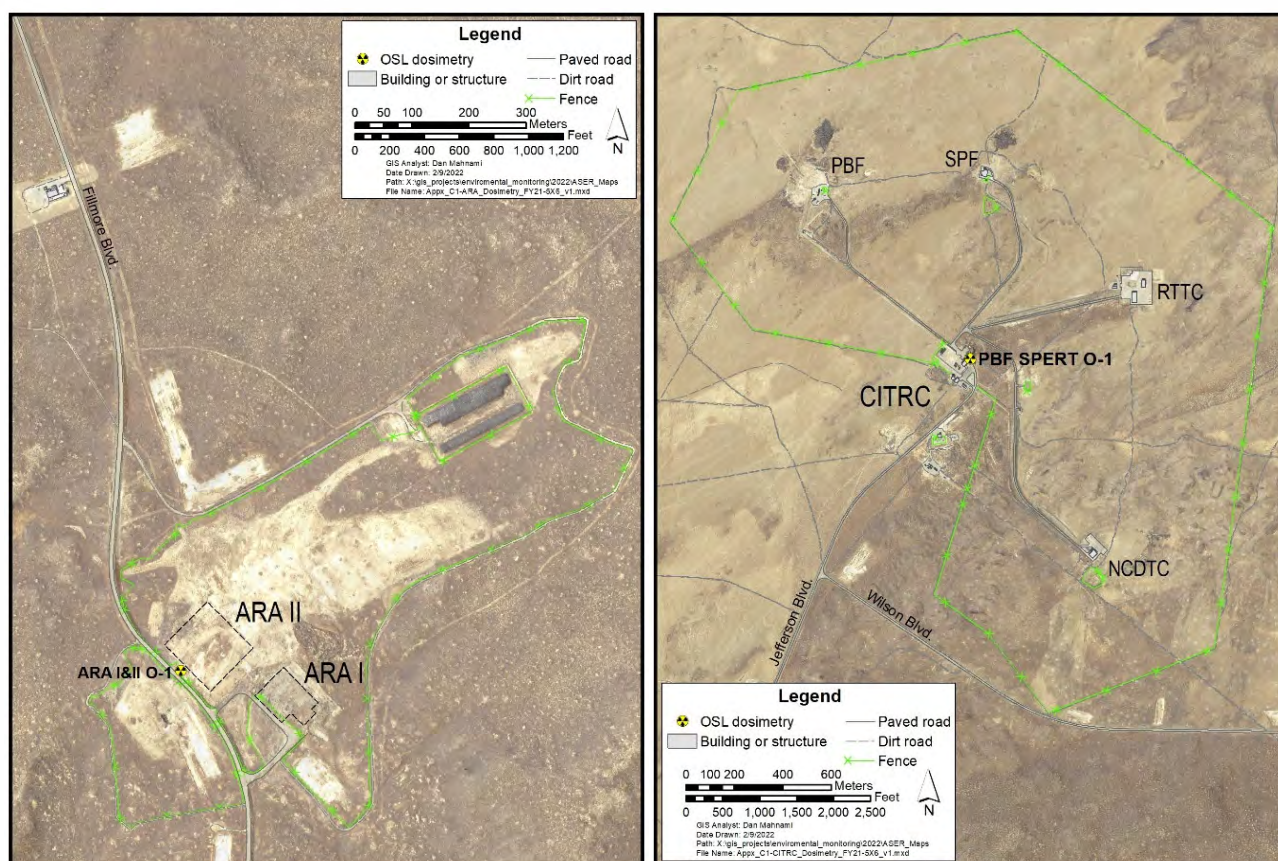


Figure C-1. Environmental radiation measurements at Auxiliary Reactor Area (ARA) and Critical Infrastructure Test Range Complex (CITRC) (2021).

LOCATION	mrem ^a		LOCATION	mrem ^a	
	NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021		NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021
RHLLW ^b O-1	72	73	TRA O-14	72	70
RHLLW O-2	70	65	TRA O-15	70	75
RHLLW O-3	65	59	TRA O-16	89	80
RHLLW O-4	79	71	TRA O-17	76	83
RHLLW O-5	72	68	TRA O-18	75	90
RHLLW O-6	71	72	TRA O-19	90	98
TRA ^c O-1	71	70	TRA O-20	69	72
TRA O-6	74	81	TRA O-21	82	85
TRA O-7	70	85	TRA O-22	67	68
TRA O-8	81	87	TRA O-23	74	71
TRA O-9	80	94	TRA O-24	74	73
TRA O-10	117	121	TRA O-25	68	68
TRA O-11	123	110	TRA O-26	73	73
TRA O-12	80	85	TRA O-27	72	77
TRA O-13	70	78	TRA O-28	78	71

- a. Millirem (mrem) in ambient dose equivalent.
b. Remote-Handled Low-Level Waste (RHLLW).
c. Test Reactor Area (TRA).

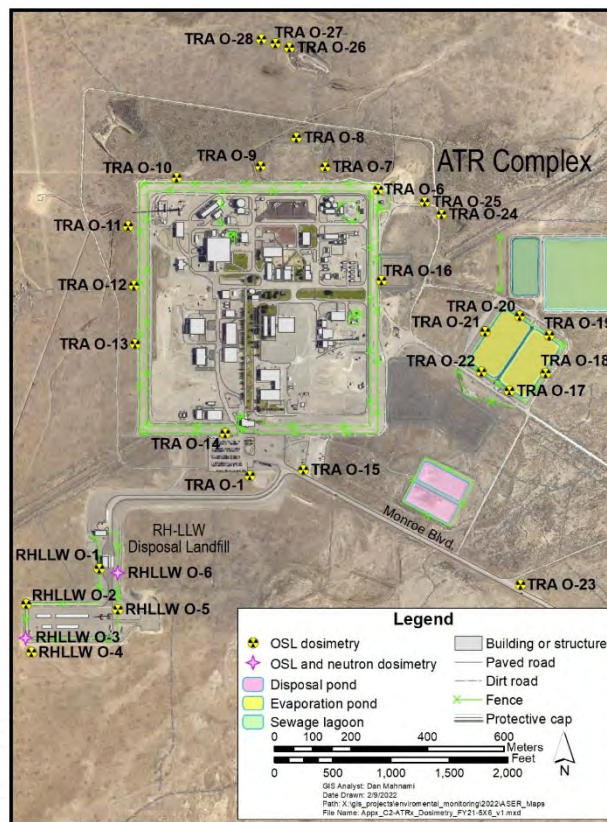


Figure C-2. Environmental radiation measurements at Advanced Test Reactor (ATR) Complex and Remote-handled Low-level Waste Disposal Facility (RHLLW) (2021).

LOCATION	mrem ^a	
	NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021
CFA ^b O-1	75	76
LincolnBlvd ^c O-1	68	70

- a. Millirem (mrem) in ambient dose equivalent.
b. Central Facilities Area (CFA).
c. Lincoln Boulevard (LincolnBlvd).

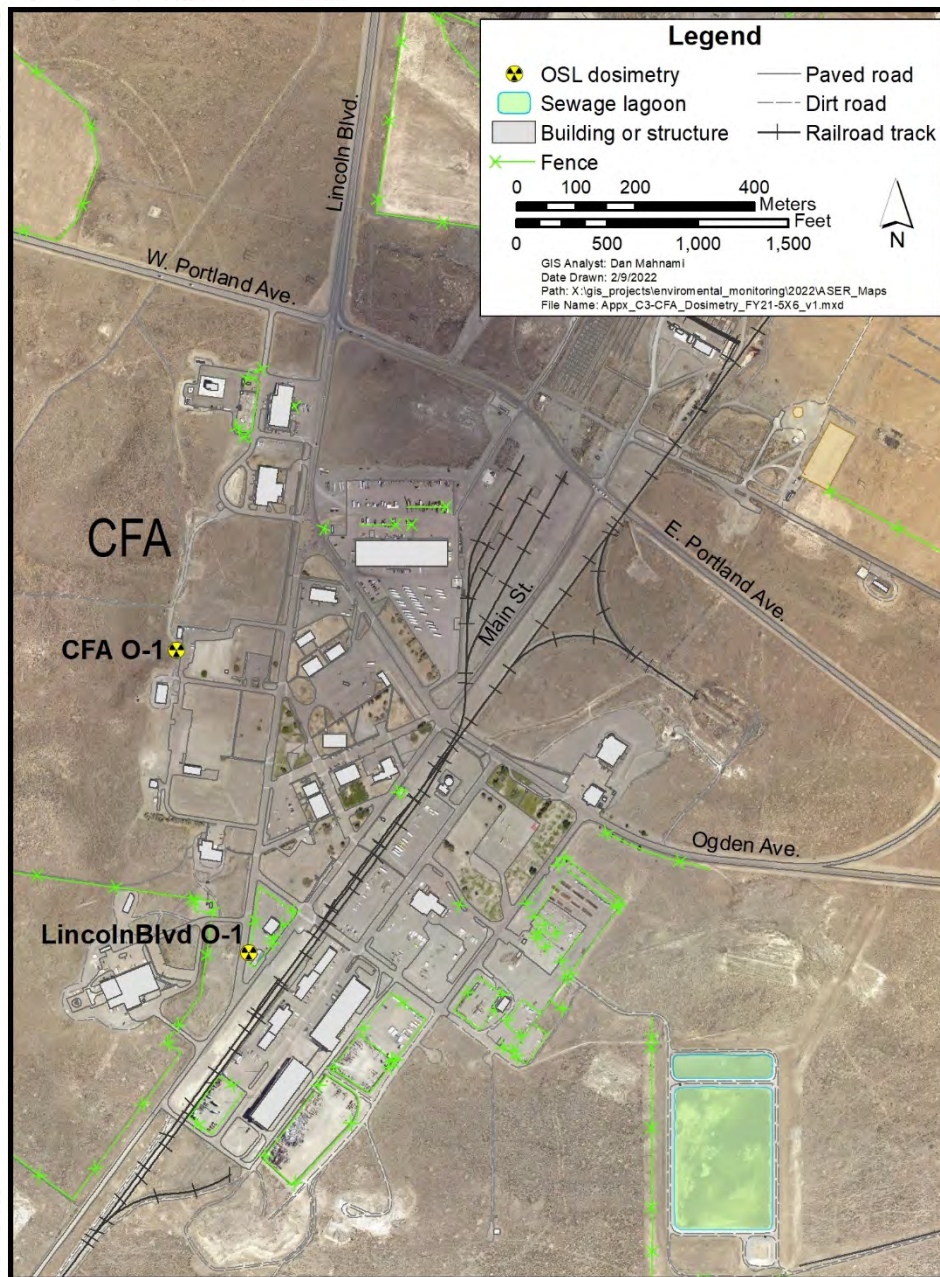


Figure C-3. Environmental radiation measurements at Central Facilities Area (CFA) and Lincoln Boulevard (2021).

LOCATION	mrem ^a		LOCATION	mrem ^a	
	NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021		NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021
ICPP ^b O-9	91	97	ICPP O-26	76	85
ICPP O-14	108	114	ICPP O-27	225	204
ICPP O-15	159	146	ICPP O-28	214	209
ICPP O-17	74	71	ICPP O-30	225	234
ICPP O-19	94	105	TreeFarm O-1	132	144
ICPP O-20	317	326	TreeFarm O-2	96	96
ICPP O-21	92	91	TreeFarm O-3	93	100
ICPP O-22	95	98	TreeFarm O-4	147	146
ICPP O-25	100	101			

a. Millirem (mrem) in ambient dose equivalent.
b. Idaho Chemical Processing Plant (ICPP).

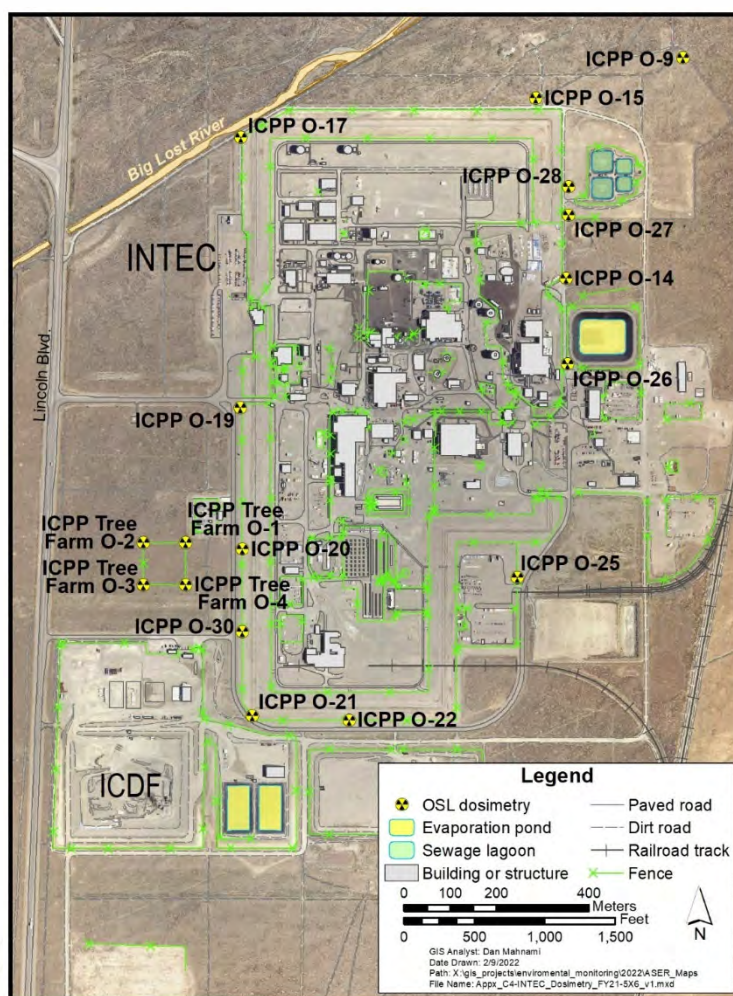


Figure C-4. Environmental radiation measurements at Idaho Nuclear Technology and Engineering Center (INTEC) (2021).

LOCATION	mrem ^a		LOCATION	mrem ^a	
	NOV. 2020 – APRIL 2021	MAY 2021– OCT. 2021		NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021
IF ^b -603N O-1	56	57	IF-670N O-31	57	56
IF-603E O-2	50	50	IF-670E O-32	53	55
IF-603S O-3	54	54	IF-670S O-33	55	57
IF-603W O-4	54	61	IF-670D O-34	58	56
IF-627 O-30	55	56	IF-670W O-35	63	64
IF-638N O-1	54	54	IF-689 O-7	53	59
IF-638E O-2	54	48	IF-689 O-8	55	58
IF-638S O-3	61	62	IF-IRC ^c O-39	57	58
IF-638W O-4	62	58			

a. Millirem (mrem) in ambient dose equivalent.

b. Idaho Falls (IF).

c. INL Research Center (IRC).

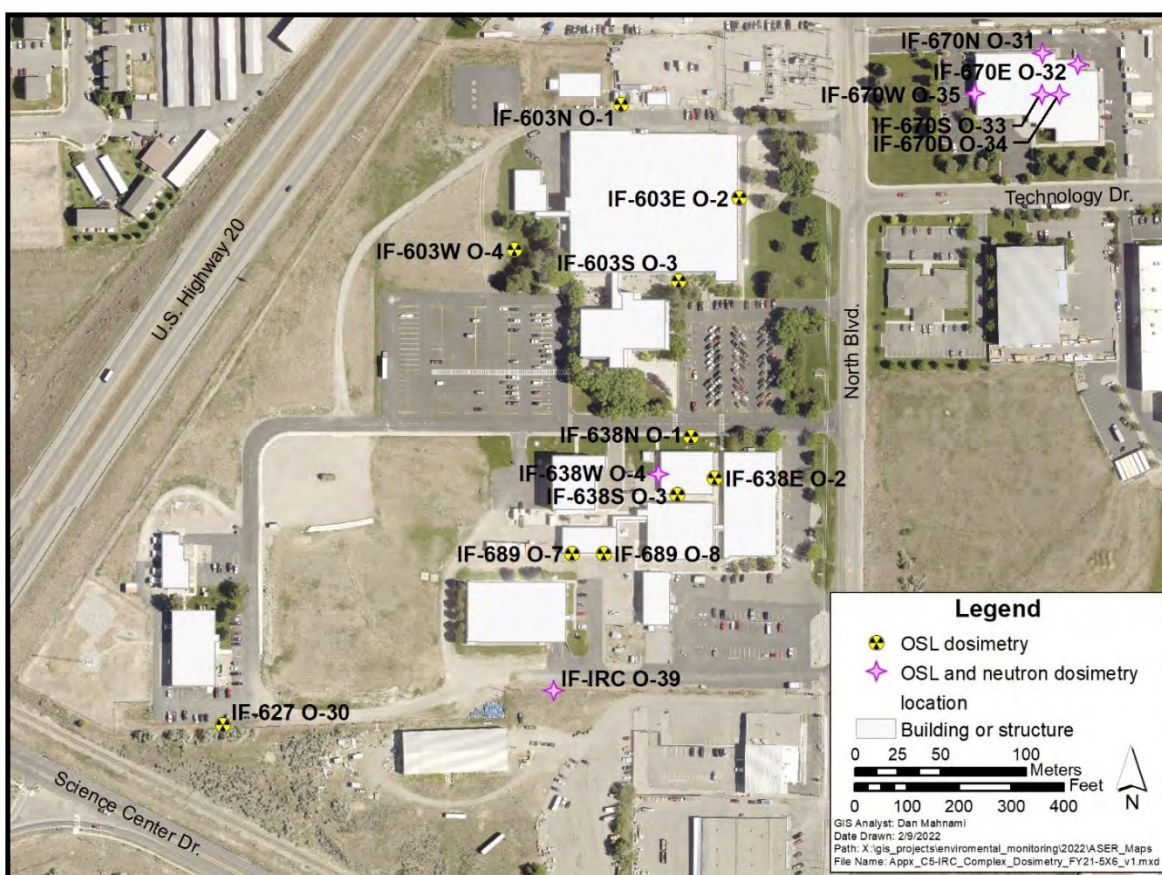


Figure C-5. Environmental radiation measurements at Idaho National Laboratory Research Center Complex (IRC) (2021).

LOCATION	mrem ^a		LOCATION	mrem ^a	
	NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021		NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021
ANL ^b O-7	63	72	ANL O-24	60	61
ANL O-8	109	60	ANL O-25	72	80
ANL O-12	57	56	ANL O-26	69	65
ANL O-14	67	73	TREAT ^c O-1	58	61
ANL O-15	77	80	TREAT O-2	59	67
ANL O-16	67	69	TREAT O-3	68	72
ANL O-18	67	63	TREAT O-4	63	65
ANL O-19	60	64	TREAT O-5	59	67
ANL O-20	76	79	TREAT O-6	67	73
ANL O-21	101	104	TREAT O-7	68	71
ANL O-22	75	78	TREAT O-8	63	73
ANL O-23	69	69			

a. Millirem (mrem) in ambient dose equivalent.

b. Argonne National Laboratory (ANL).

c. Transient Reactor Test (TREAT) Facility.

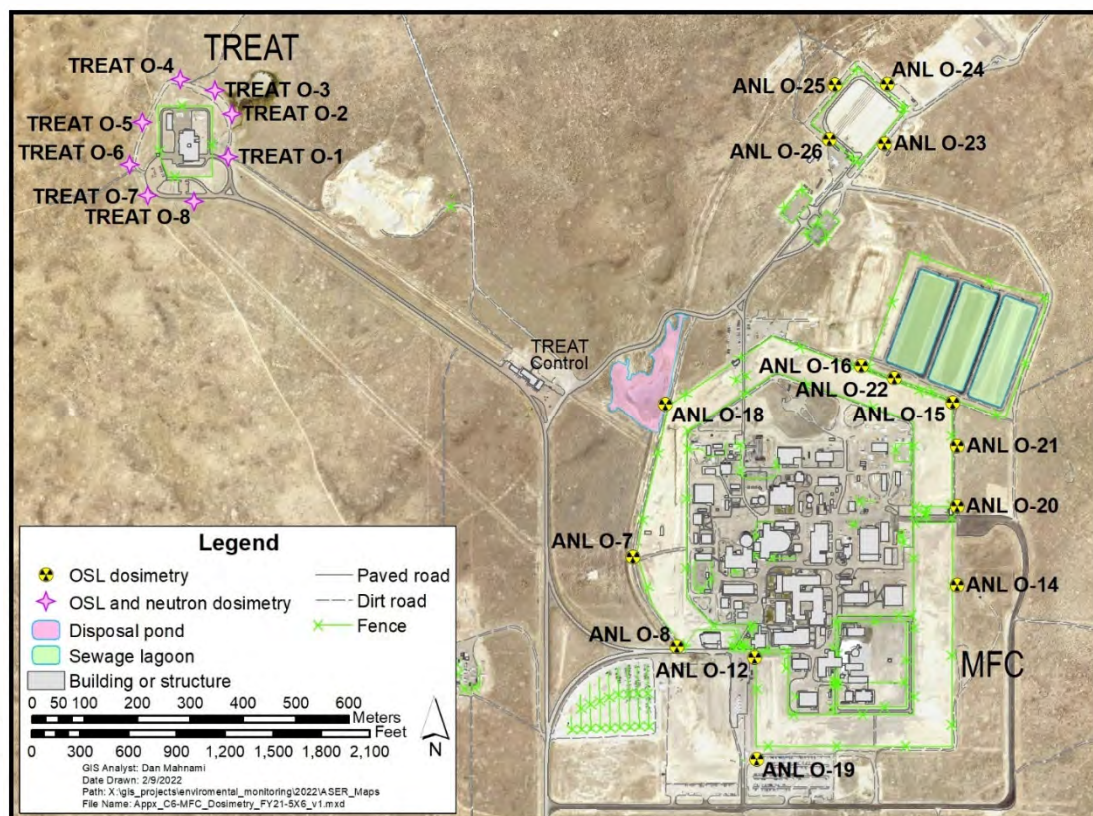


Figure C-6. Environmental radiation measurements at Materials and Fuels Complex (MFC) and Transient Reactor Test (TREAT) Facility (2021).

LOCATION	mrem ^a		LOCATION	mrem ^a	
	NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021		NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021
NRF ^b O-11	73	68	NRF O-21	71	76
NRF O-16	68	71	NRF O-22	60	70
NRF O-18	70	79	NRF O-23	61	62
NRF O-19	67	68	NRF O-24	59	68
NRF O-20	71	68			

a. Millirem (mrem) in ambient dose equivalent.
b. Naval Reactors Facility (NRF).

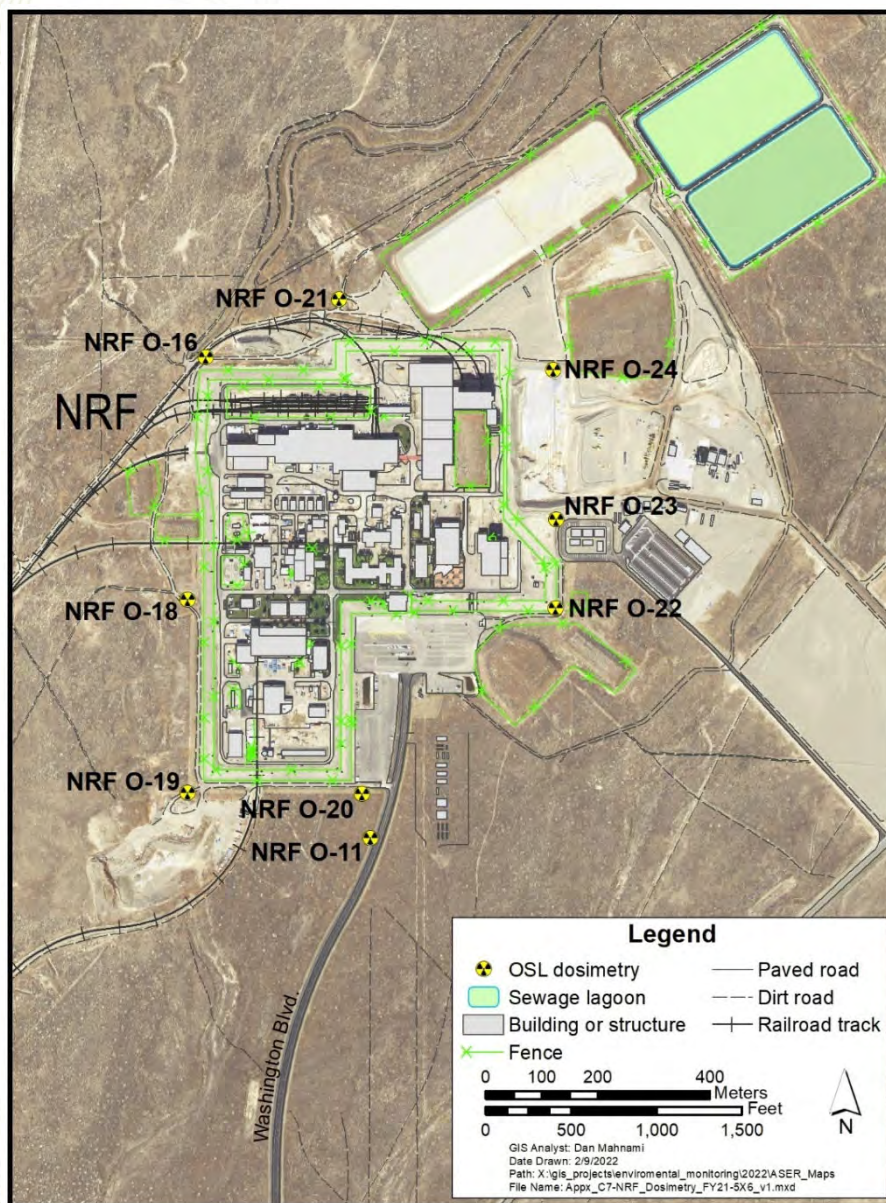


Figure C-7. Environmental radiation measurements at Naval Reactors Facility (NRF) (2021).



LOCATION	mrem ^a	
	NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021
IF ^b -675E O-31	52	52
IF-675D O-33	50	54
IF-675S O-34	59	62
IF-675W O-35	56	55

a. Millirem (mrem) in ambient dose equivalent.
b. Idaho Falls (IF).

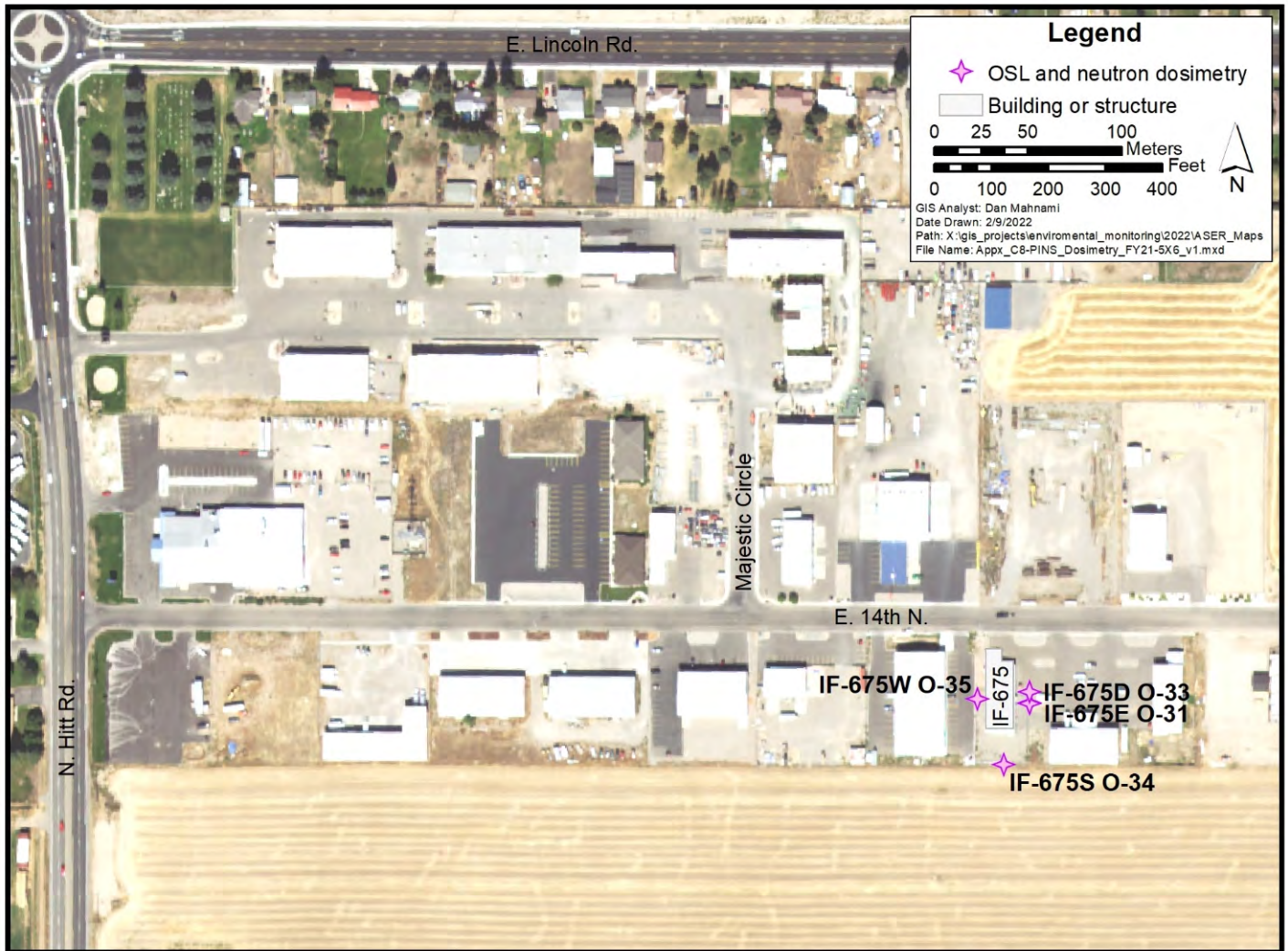


Figure C-8. Environmental radiation measurements at IF-675 Portable Isotopic Neutron Spectroscopy (PINS) Laboratory (2021).

LOCATION	mrem ^a		LOCATION	mrem ^a	
	NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021		NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021
RWMC ^b O-3A	68	70	RWMC O-25A	72	69
RWMC O-5A	64	65	RWMC O-27A	63	67
RWMC O-7A	66	62	RWMC O-29A	70	72
RWMC O-9A	69	82	RWMC O-39	69	73
RWMC O-11A	76	90	RWMC O-41	135	143
RWMC O-13A	76	223	RWMC O-43	64	68
RWMC O-19A	61	66	RWMC O-46	68	64
RWMC O-21A	76	74	RWMC O-47	68	65
RWMC O-23A	73	70			

a. Millirem (mrem) in ambient dose equivalent.

b. Radioactive Waste Management Complex (RWMC).

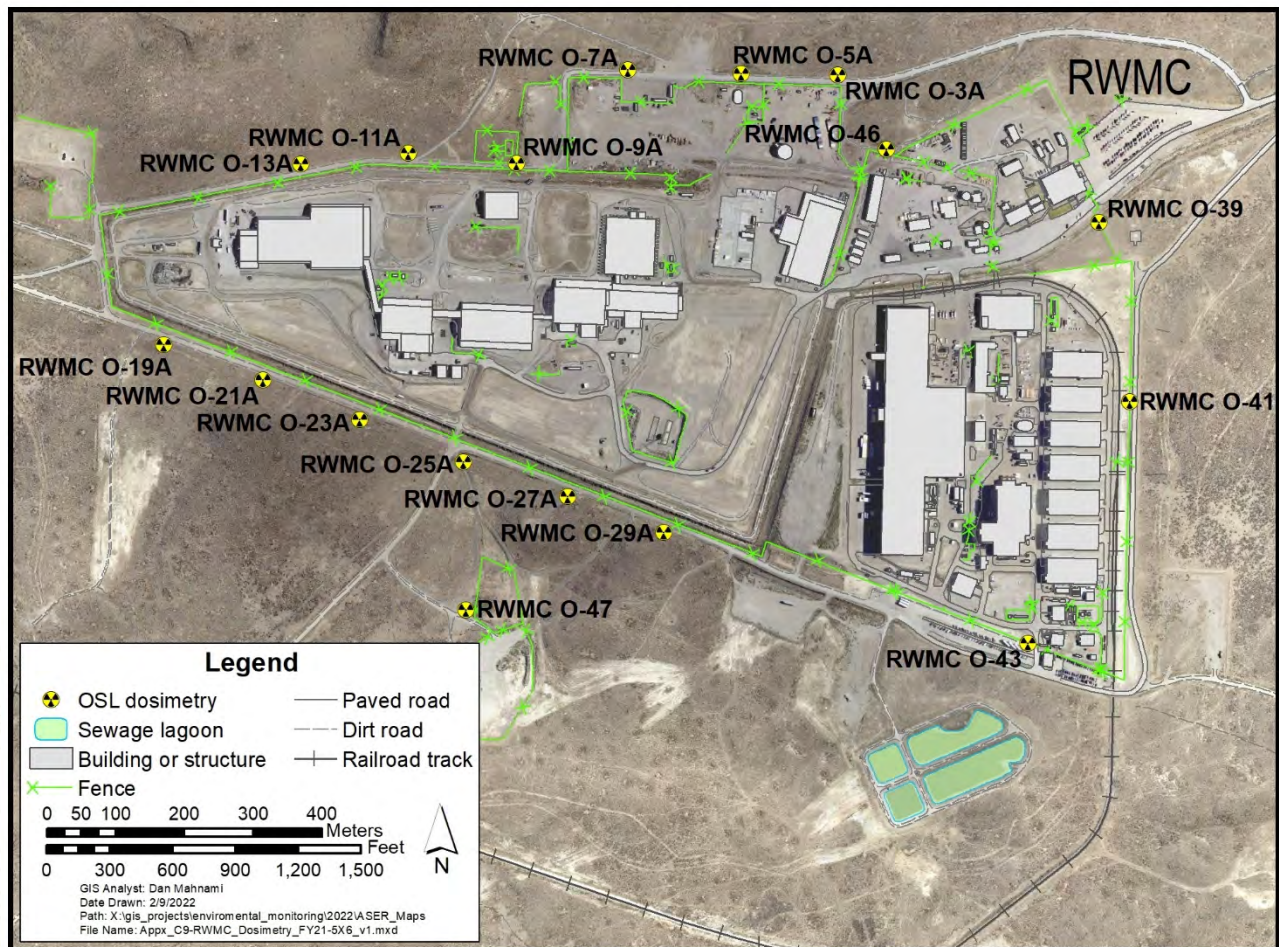


Figure C-9. Environmental radiation measurements at Radioactive Waste Management Complex (RWMC) (2021).



LOCATION	mrem ^a		LOCATION	mrem ^a	
	NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021		NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021
TAN LOFT ^b O-6	67	69	TAN LOFT O-10	68	58
TAN LOFT O-7	71	77	TAN LOFT O-11	69	75
TAN LOFT O-8	67	63	TAN LOFT O-12	63	63
TAN LOFT O-9	53	61	TAN LOFT O-13	68	70

a. Millirem (mrem) in ambient dose equivalent.

b. Test Area North, Loss-of-Fluid Test (TAN LOFT).

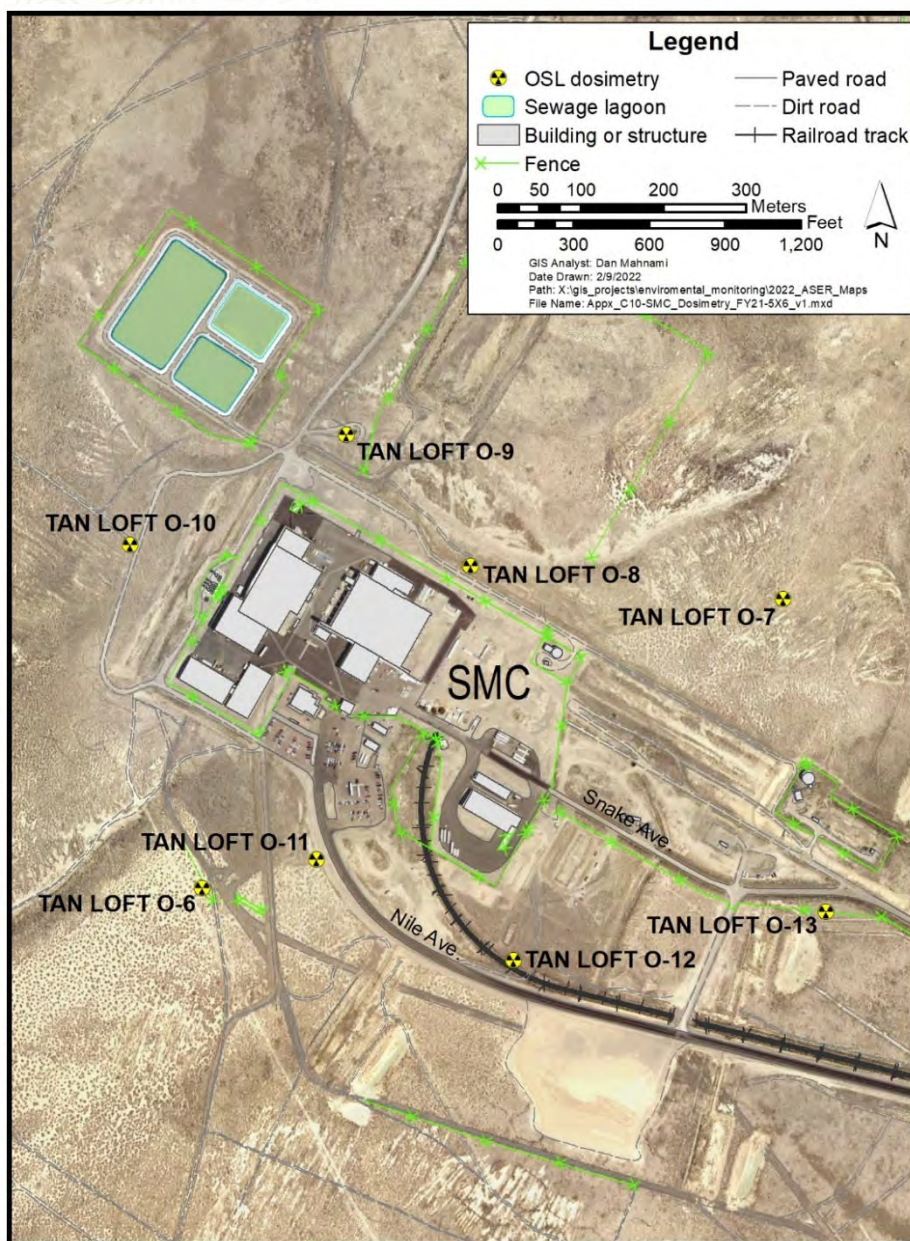


Figure C-10. Environmental radiation measurements at Specific Manufacturing Capability (SMC) (2021).



LOCATION	mrem ^a		LOCATION	mrem ^a	
	NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021		NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021
EFS ^b O-1	65	67	Hwy33 T17 O-3	60	58
Gate4 O-1	65	59	LincolnBlvd ^d O-3	78	74
Haul E O-1	68	65	LincolnBlvd O-5	71	73
Haul W O-2	69	65	LincolnBlvd O-9	68	70
Hwy ^c 20 Mile O-266	59	65	LincolnBlvd O-15	74	76
Hwy20 Mile O-270	63	65	LincolnBlvd O-25	67	66
Hwy20 Mile O-276	59	66	Main Gate O-1	70	70
Hwy22 T28 O-1	54	60	Rest O-1	60	63
Hwy28 N2300 O-2	52	52	VanB ^e O-1	68	70

a. Millirem (mrem) in ambient dose equivalent.

b. Experimental Field Station (EFS).

c. Highway (Hwy).

d. Lincoln Boulevard (LincolnBlvd).

e. Van Buren (VanB).

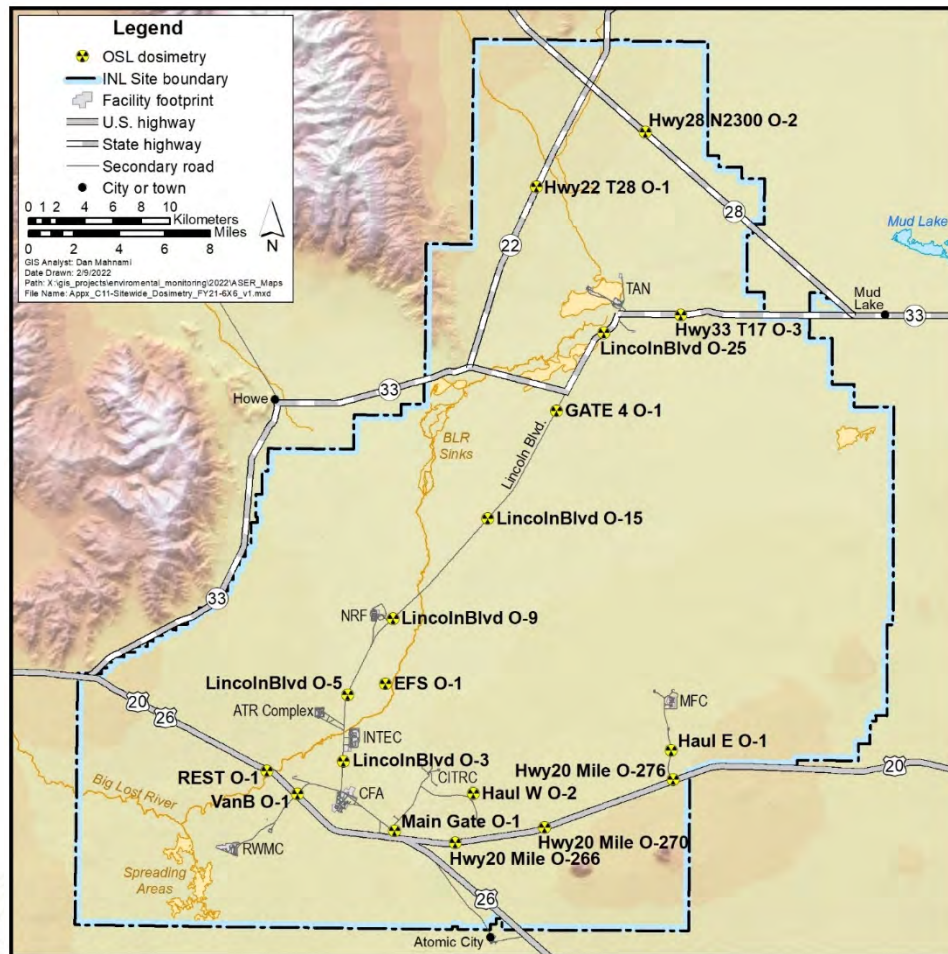


Figure C-11. Environmental radiation measurements at sitewide locations (2021).

LOCATION	mrem ^a		LOCATION	mrem ^a	
	NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021		NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021
Arco O-1	65	63	Mud Lake O-5	61	69
Atomic City O-2	58	72	Reno Ranch O-6	52	57
Blackfoot O-9	57	57	RobNOAA ^c	63	65
Craters O-7	62	70	RRL ^d 3 O-1	63	67
Howe O-3	54	58	RRL5 O-1	75	84
Idaho Falls O-10	59	62	RRL6 O-1	62	65
IF ^b -IDA O-38	53	53	RRL17 O-1	57	57
Montevieu O-4	58	60	RRL24 O-1	56	55

- a. Millirem (mrem) in ambient dose equivalent.
b. Idaho Falls (IF).
c. Roberts National Oceanic and Atmospheric Administration (RobNOAA).
d. Resident Receptor Location (RRL).

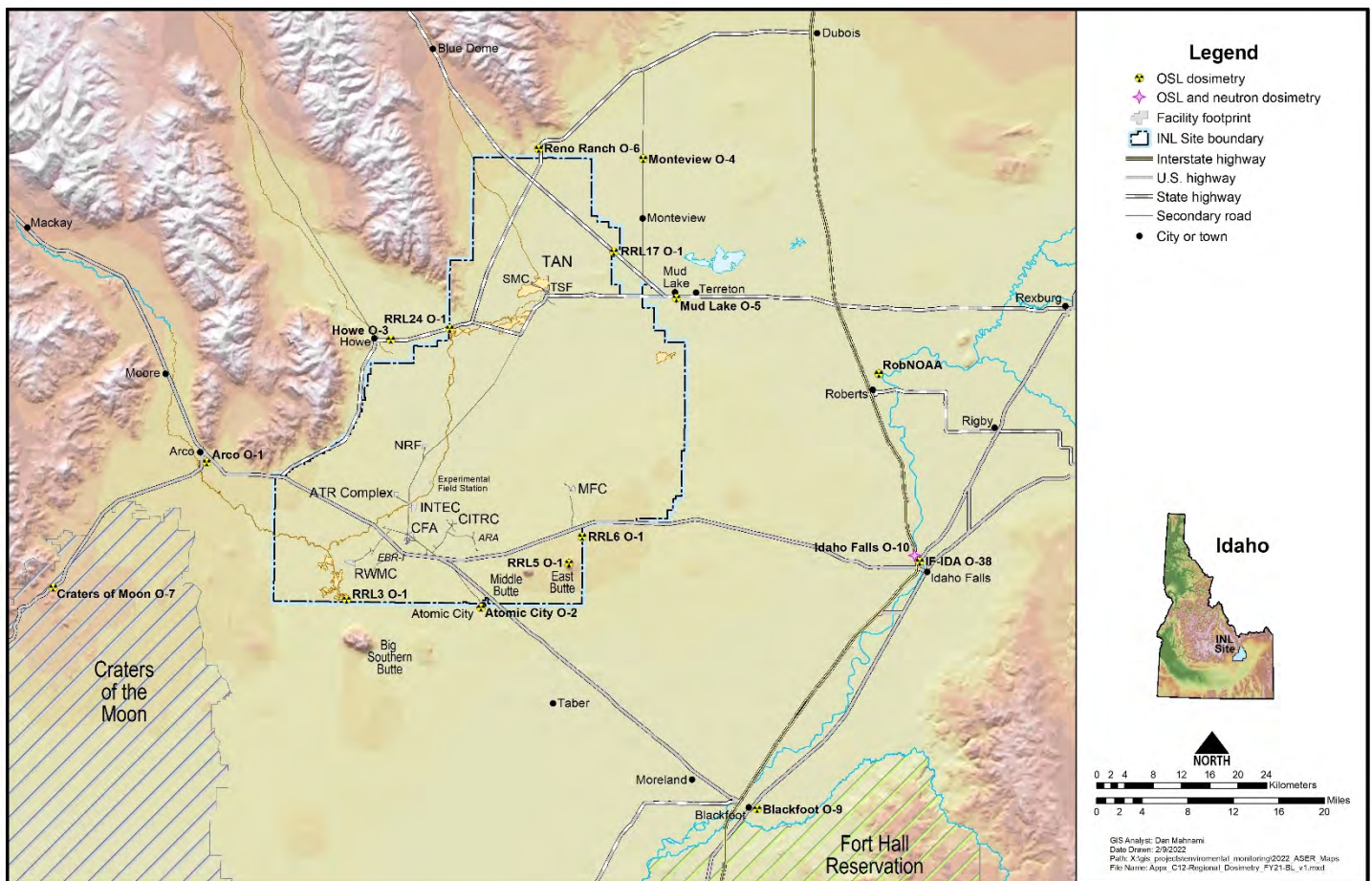


Figure C-12. Environmental radiation measurements at regional locations (2021).

LOCATION	mrem ^a		LOCATION	mrem ^a	
	NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021		NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021
IF ^b -616N O-36	55	58	IF-665 O-4	51	59
IF-665 O-1	56	53	IF-665 O-5	58	62
IF-665 O-2	59	59	IF-665W O-37	57	58
IF-665 O-3	56	54			

- a. Millirem (mrem) in ambient dose equivalent.
b. Idaho Falls (IF).

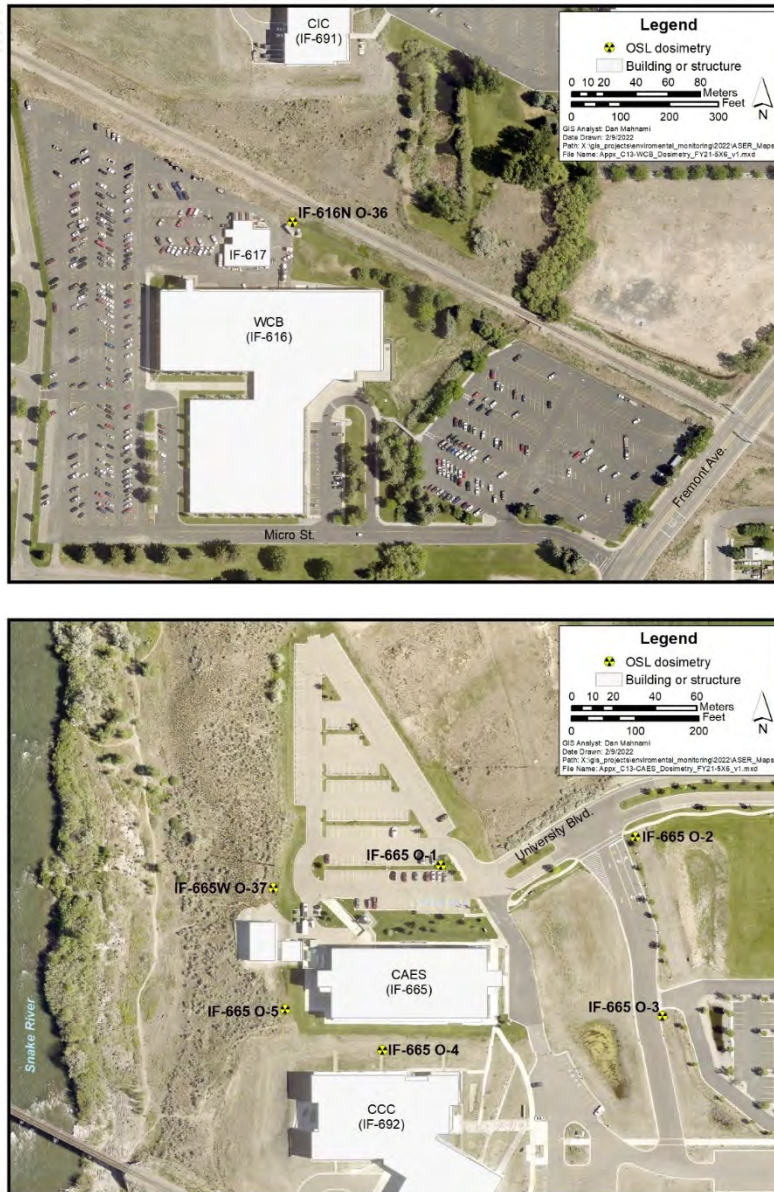


Figure C-13. Environmental radiation measurements at Willow Creek Building (WCB) and Center for Advanced Energy Studies (CAES) (2021).



LOCATION	mrem ^a	
	NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021
EBR1 ^b O-1	58	60
EBR1 O-2	87	88
EBR1 O-3	295	288

a. Millirem (mrem) in ambient dose equivalent.
b. Experimental Breeder Reactor I (EBR-I).

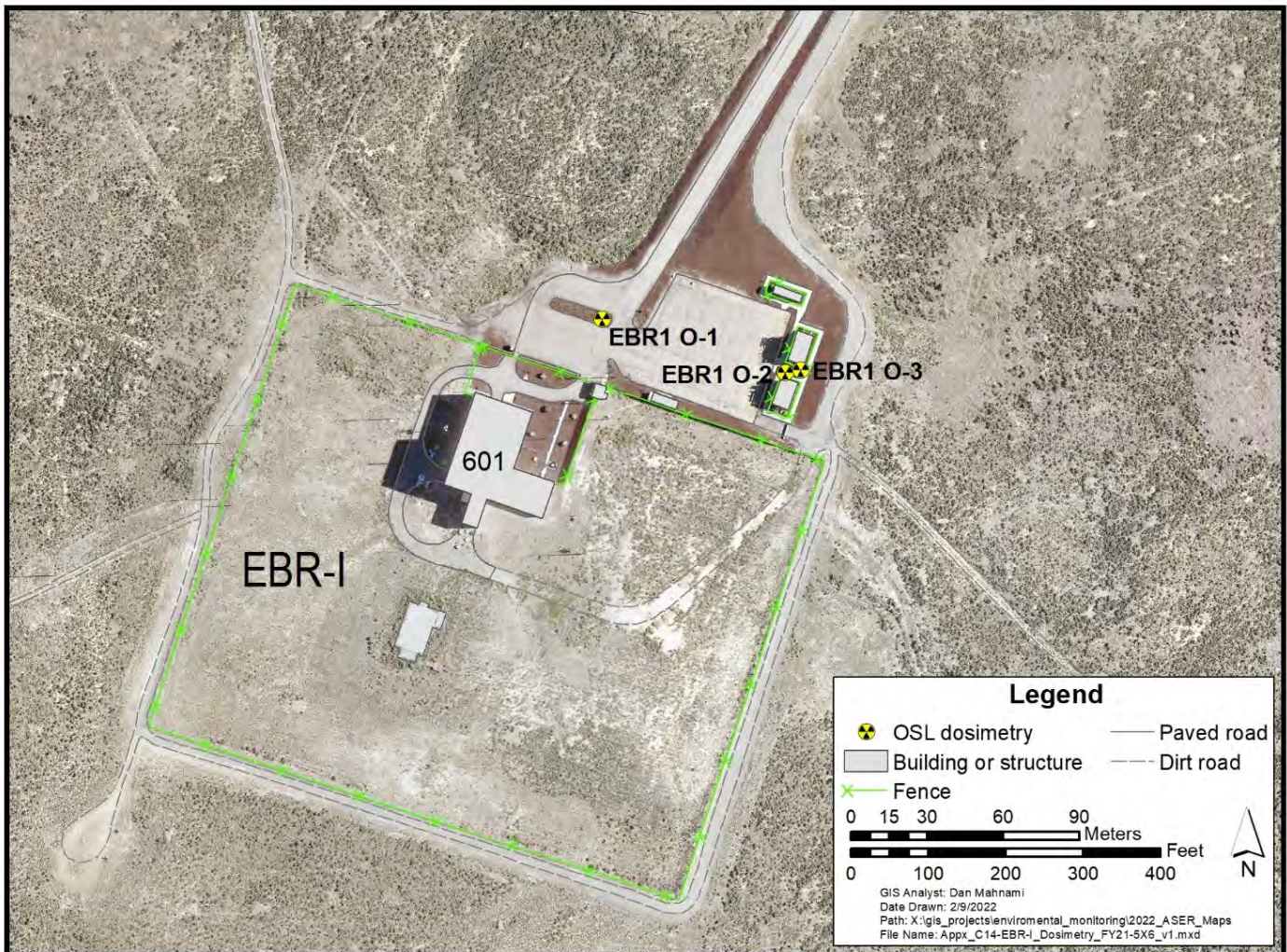


Figure C-14. Environmental radiation measurements at Experimental Breeder Reactor I (EBR-I) (2021).

LOCATION	mrem ^a	
	NOV. 2020 – APRIL 2021	MAY 2021 – OCT. 2021
IF ^b -688B O-1	51	51
IF-688B O-2	52	Lost

a. Millirem (mrem) in ambient dose equivalent.

b. Idaho Falls (IF).

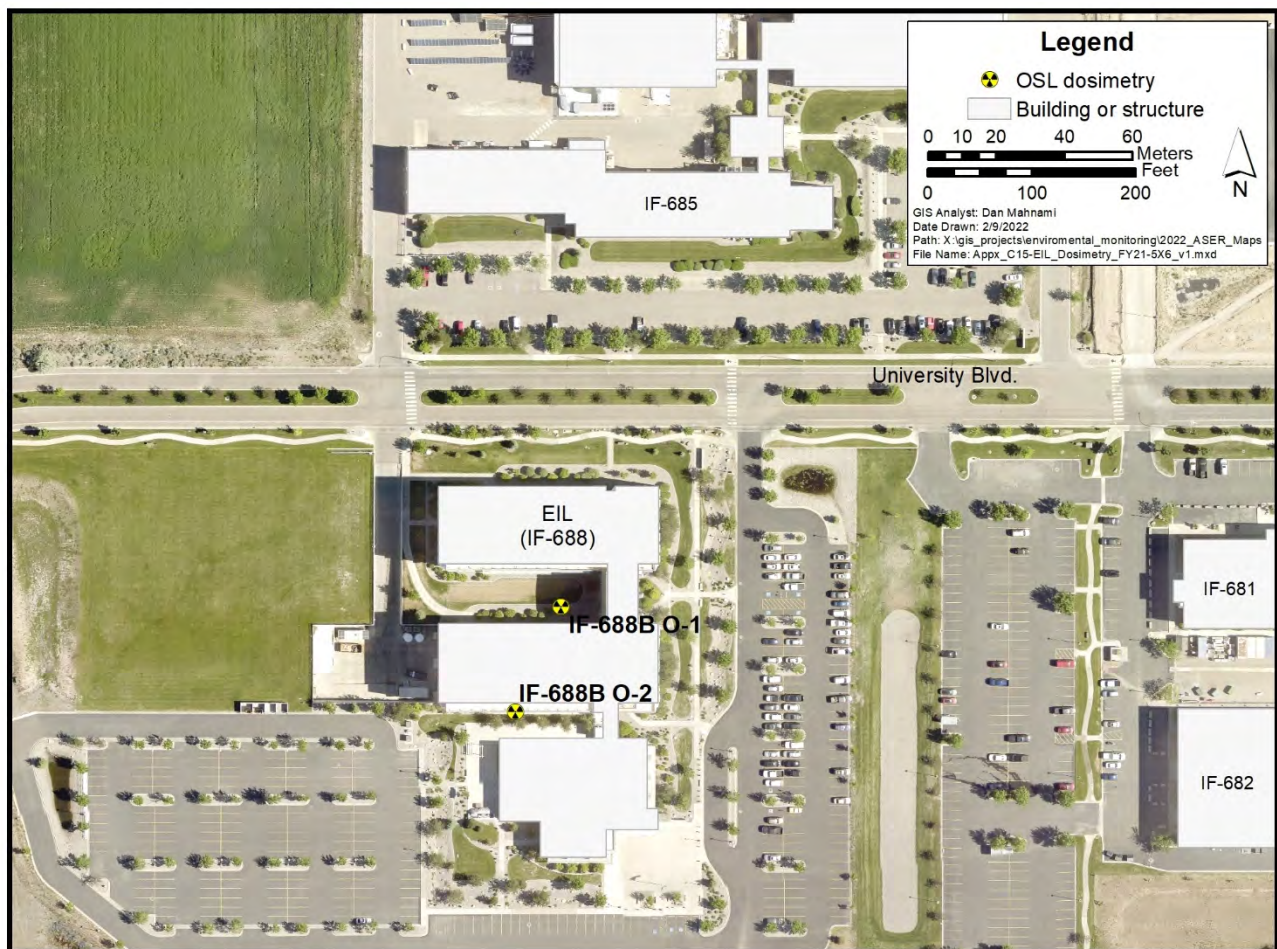


Figure C-15. Environmental radiation measurements at Energy Innovation Laboratory (EIL) (2021).



Mountain Bluebird