Table A1-4. Summary of WAG 4 ERA results.

Site	Description/Size (m^2)	COPC	Max. Conc. (mg/kg)[1]	95th UCL (mg/kg)[1]	Bkgd. Conc. (mg/kg)[1]	EBSL (mg/kg)[1]	HQ IN WAG ERA[2]	COPC ISSUE In WAG ERA	OU 10-04 EBSLs	Site Remediation Plans (Preferred Alternative)	Site pushed to WAG 10
CFA-01	Landfill I	Benzo(a)pyrene	8.90E-01		NA	3.34E-02	<1 to 2	YES	3.25E-02	No Further Action.	Yes
	4.30E+04	Chromium (III)	5.30E+01		3.30E+01	3.25E+01	<=1 to 50	YES	3.25E+00		
		Chrysene	4.50E+02		NA	2.27E-01	1 to 200	YES	2.27E-01		
		Copper	7.34E+01		2.20E+01	2.11E+00	<1 to 30	YES	2.11E+00		
		Lead	9.70E+01	3.80E+01	1.70E+01	7.17E-02	1 to 200	YES	7.17E-02		
		Mercury	8.00E-02		5.00E-02	6.13E-03	<=1 to 6	YES	6.13E-03		
		Silver	1.95E+01		NA	2.00E+00	<=1 to 10	YES	1.35E+00		
		Zinc	2.30E+02		1.50E+02	6.37E+00	<=1 to 30	YES	6.37E+00		
CFA-02	Landfill II	2-methylnaphthalene	4.70E-02	5.00E-02	NA	3.25E-02	NA			No Further Action.	Yes
	7.07E+05	4-methyl-2-pentanone	1.70E-02	2.00E-02	NA	none	NA	NO	none		
		Acetone	5.80E+00		NA	5.53E-01	<=1 to 20	YES	2.78E-01		
		Arsenic	1.72E+01	1.54E+01	5.80E+00	8.76E-01	<=1 to 20	YES	8.76E-01		
		Benzo(b)fluoranthene	8.90E-01		NA	3.25E-02	<1 to 1	NO	6.49E-02		
		Benzo(k)fluoranthene	1.20E+00		NA	4.90E-02	<1 to 1	NO	none		
		Dibenzofuran	3.90E-02		NA	none	NA	NO	none		
		Lead	2.55E+02	1.88E+02	1.70E+01	7.17E-02	1 to 700	YES	7.17E-02		
		Mercury	1.90E-01	8.00E-02	5.00E-02	6.13E-03	<=1 to 8	YES	6.13E-03		
		Pentachlorophenol	7.40E-02		NA	1.30E-01	NA	NO	none		

Table A1-4. (continued).

Site	Description/Size (m^2)	COPC	Max. Conc. (mg/kg)[1]	95th UCL (mg/kg)[1]	Bkgd. Conc. (mg/kg)[1]	EBSL (mg/kg)[1]	HQ IN WAG ERA[2]	COPC ISSUE In WAG ERA	OU 10-04 EBSLs	Site Remediation Plans (Preferred Alternative)	Site pushed to WAG 10
CFA-04	Pond near CFA-674	Arsenic	2.24E+01	1.24E+01	5.80E+00	8.76E-01	<=1 to 10	YES	8.76E-01	Excavation, Treatment by	Yes
	6.88E+03	Barium	1.12E+03	5.30E+02	3.00E+02	9.74E-02	<=1 to 1000	YES	9.74E-02	Stabilization and on-Site	
		Cadmium	6.80E+00	3.40E+00	2.20E+00	2.36E-03	<=1 to 3,000	YES	2.36E-03	Disposal.	
		Chromium (III)	2.37E+02	1.02E+02	3.30E+01	3.25E+01	<1 to 5	YES	3.25E+00		
		Cobalt	1.28E+01	1.00E+01	1.10E+01	4.54E-02	<=1 to 200	YES	4.54E-01		
		Copper	3.65E+02	1.40E+02	2.20E+01	2.11E+00	<=1 to 60	YES	2.11E+00		
		Lead	4.24E+01	4.24E+01	1.70E+01	7.17E-02	<=1 to 90	YES	7.17E-02		
		Mercury	4.39E+02		5.00E-02	6.13E-03	<1 to 30,000	YES	2.69E+00		
		Nickel	3.55E+02	1.60E+02	3.50E+01	2.69E+00	<1 to 100	YES	2.69E+00		
		Nitrate	9.00E+01	1.00E+01	NA	3.20E+01	<=2	NO	3.20E+01		
		Silver	1.21E+02	3.10E+01	NA	2.99E+00	<=1 to 20	YES	1.35E+00		
		Vanadium	5.56E+01	4.60E+01	4.00E+01	2.55E-01	<=1 to 90	YES	2.55E-01		
CFA-05	Motor Pool Pond ditch	4-methyl-2-pentanone	6.50E-02		NA	none	NA		none	No Further Action.	Yes
	7.43E+03	Arsenic	1.98E+01	1.84E+01	5.80E+00	8.76E-01	<=1 to 20	YES	8.76E-01		
		Barium	4.34E+02		3.00E+02	9.74E-02	<1 to 3	YES	9.74E-02		
		Cadmium	3.80E+01	3.88E+01	2.20E+00	2.36E-03	<=1 to 10,000	YES	2.36E-03		
		Chromium (III)	9.13E+01		3.30E+01	3.25E+01	<=1 to 90	YES	3.25E+00		
		Cobalt	1.50E+01		1.10E+01	4.54E-02	<=2 to 20	YES	4.54E-01		
		Copper	3.42E+02		2.20E+01	2.11E+00	<=1 to 100	YES	2.11E+00		
		Lead	6.31E+02	4.64E+02	1.70E+01	7.17E-02	<=1 to 1,000	YES	7.17E-02		

Table A1-4. (continued).

Site	Description/Size (m^2)	COPC	Max. Conc. (mg/kg)[1]	95th UCL (mg/kg)[1]	Bkgd. Conc. (mg/kg)[1]	EBSL (mg/kg)[1]	HQ IN WAG ERA[2]	COPC ISSUE In WAG ERA	OU 10-04 EBSLs	Site Remediation Plans (Preferred Alternative)	Site pushed to WAG 10
		Manganese	7.67E+02	6.17E+02	4.90E+02	1.41E+01	<=1 to 70	YES	1.41E+01		
		Mercury	5.80E-01		5.00E-02	6.13E-03	<=1 to 80	YES	6.13E-03		
		Nickel	3.67E+01	3.17E+01	3.50E+01	2.69E+00	<=1 to 10	YES	2.69E+00		
		Vanadium	4.72E+01	4.11E+01	4.50E+01	2.55E-02	<=1 to 20	YES	2.55E-01		
		Zinc	8.58E+02	NA	6.37E+00	1.50E+02	<=1 to 20	YES	6.37E+00		
pond		Arsenic	9.02E+00	NA	5.80E+00	8.76E-01	<=1 to 9	YES	8.76E-01		
		Cadmium	6.80E+00	3.30E+00	2.20E+00	2.36E-03	<=1 to 1,000	YES	2.36E-03		
		Chromium (III)	3.49E+01	2.65E+01	3.30E+01	3.25E+01	<1 to 30	YES	3.25E+00		
		Copper	5.86E+01	6.11E+01	2.20E+01	2.11E+00	<1 to 30	YES	2.11E+00		
		Lead	1.06E+02	3.68E+01	1.70E+01	7.17E-02	<=1 to 70	YES	7.17E-02		
		Manganese	5.74E+02	3.09E+02	4.90E+02	1.41E+01	<=1 to 30	YES	1.41E+01		
		Zinc	2.41E+02	1.60E+02	6.37E+00	1.50E+02	<=1 to 20	YES	6.37E+00		
CFA-06	Lead Shop (outside areas)	Arsenic	1.45E+01	NA	5.80E+00	8.76E-01	<=1 to 10	YES	8.76E-01	No Further Action.	No
	2.50E+03	Lead	1.53E+02	NA	1.70E+01	7.17E-02	<=1 to 200	YES	7.17E-02		
CFA-08	Sewage Plant (CFA-691), Septic	Arsenic	1.41E+01	NA	5.80E+00	8.76E-01	<=1 to 10		8.76E-01	Containment.	Yes
	Tank (CFA-716), and Drainfield	Chloromethane	5.00E-03	NA	NA	none	NA		none		
	1.84E+04	Chromium (III)	7.76E+01	NA	3.30E+01	3.25E+01	<=2		3.25E+00		
		Copper	3.30E+01	NA	2.20E+01	2.11E+00	<=1 to 10		2.11E+00		
		Lead	2.23E+01	1.80E+01	1.70E+01	7.17E-02	<1 to 40		7.17E-02		
		Mercury	5.10E-01	NA	5.00E-02	6.13E-03	<=1 to 30		6.13E-03		
		Nickel	4.51E+01	3.80E+01	3.50E+01	2.69E+00	<=1 to 10		2.69E+00		

Table A1-4. (continued).

Site	Description/Size (m^2)	COPC	Max. Conc. (mg/kg)[1]	95th UCL (mg/kg)[1]	Bkgd. Conc. (mg/kg)[1]	EBSL (mg/kg)[1]	HQ IN WAG ERA[2]	COPC ISSUE In WAG ERA	OU 10-04 EBSLs	Site Remediation Plans (Preferred Alternative)	Site pushed to WAG 10
		Selenium	1.40E+00	NA	2.20E-01	8.11E-02	<1 to 20		8.11E-02		
		Silver	2.41E+01	NA	NA	2.99E+00	<=1 to 5		1.35E+00		
CFA-10	Transformer Yard Oil Spills	Antimony	9.50E+00	NA	4.80E+00	7.47E-01	<1 to 4		7.47E-01	Excavation, Treatment by	Yes
	8.08E+02	Arsenic	1.16E+01	NA	5.80E+00	8.76E-01	<=1 to 8		8.76E-01	Stabilization & Off-Site	
		Cadmium	7.30E+00	NA	2.20E+00	2.36E-03	<=1 to 2,000		2.36E-03	Disposal.	
		Chromium (III)	1.02E+02	NA	3.30E+01	3.25E+01	<1		3.25E+00		
		Cobalt	1.57E+01	NA	1.10E+01	4.54E-02	<=1 to 20		4.54E-01		
		Copper	2.59E+02	NA	2.20E+01	2.11E+00	<1 to 70		2.11E+00		
		Lead	3.30E+03	NA	1.70E+01	7.17E-02	<1 to 3,000		7.17E-02		
		Manganese	5.09E+02	NA	4.90E+02	1.41E+01	<=1 to 20		1.41E+01		
		Mercury	9.00E-02	NA	5.00E-02	6.13E-03	<1 to 4		6.13E-03		
		Nickel	1.11E+02	NA	3.50E+01	2.69E+00	<=1 to 20		2.69E+00		
		Zinc	1.15E+03	NA	1.50E+02	6.37E+00	<=1 to 70		6.37E+00		
CFA-12	Two French Drains (CFA-690)	Pentachlorophenol	2.50E-01	NA	NA	NA	NA		none	No Further Action.	
	1.34E+01			NA							
CFA-13	Dry Well (South of CFA-640)	Antimony	1.15E+01	NA	4.80E+00	7.47E-01	<1 to 2		7.47E-01	No Further Action.	Yes
	2.50E+01	Arsenic	1.09E+01	NA	5.80E+00	8.76E-01	<1 to 1		8.76E-01		
		Cadmium	7.37E+00	NA	2.20E+00	2.36E-03	<=1 to 60		2.36E-03		
		Chromium (III)	1.79E+02	NA	3.30E+01	3.25E+01	<1 to 200		3.25E+00		
		Copper	1.90E+03	NA	2.20E+01	2.11E+00	<=1 to 20		2.11E+00		

Table A1-4. (continued).

Site	Description/Size (m^2)	COPC	Max. Conc. (mg/kg)[1]	95th UCL (mg/kg)[1]	Bkgd. Conc. (mg/kg)[1]	EBSL (mg/kg)[1]	HQ IN WAG ERA[2]	COPC ISSUE In WAG ERA	OU 10-04 EBSLs	Site Remediation Plans (Preferred Alternative)	Site pushed to WAG 10
		Lead	7.25E+02	NA	1.70E+01	7.17E-02	<1 to20		7.17E-02		
		Mercury	1.97E+00	NA	5.00E-02	6.13E-03	<1 to 7		6.13E-03		
		Nickel	8.51E+01	NA	3.50E+01	2.69E+00	<1 to 3		2.69E+00		
		Pyrene	2.40E+01	NA	NA	2.03E+01	<1		2.03E+01		
		Silver	1.94E+01	NA	NA	2.00E+00	<1 to 10		1.35E+00		
		Zinc	3.02E+02	NA	1.50E+02	6.37E+00	<1 to 6		6.37E+00		
CFA-15	Dry Well (CFA-674)	Copper	2.11E+01	NA	2.20E+01	2.11E+00	<1		2.11E+00	No Further Action.	No
	3.00E-01	Mercury	4.20E-01	NA	5.00E-02	6.13E-03	< 1 to 1		6.13E-03		
CFA-17/47a	Fire Department Training Area, bermed and Fire Station Chemical Disposal 1.96E+03	Xylene[b]	6.90E+00	NA	NA	2.78E-01	<=3 to 10		2.78E-01	No Further Action.	No
CFA-21	Fuel Tank at Nevada Circle (S by CFA-629) 7.00E+00	TPH	5.40E+04	NA	NA	5.16E+01	<1 to 3		none	No Further Action.	No
CFA-26	CFA-760 Pump Station Fuel Spills 1.12E+02	TPH	3.47E+03	NA	NA	5.16E+01	<=1 to 4		none	No Further Action.	No
CFA-31	Waste Oil Tank at CFA-754 2.52E+01	TPH	5.61E+03	NA	NA	5.16E+01	<1 to 7		none	No Further Action.	No

Table A1-4. (continued).

Site	Description/Size (m^2)	COPC	Max. Conc. (mg/kg)[1]	95th UCL (mg/kg)[1]	Bkgd. Conc. (mg/kg)[1]	EBSL (mg/kg)[1]	HQ IN WAG ERA[2]	COPC ISSUE In WAG ERA	OU 10-04 EBSLs	Site Remediation Plans (Preferred Alternative)	Site pushed to WAG 10
CFA-40	Returnable Drum Storage (south of CFA-601) 5.40E+02	TPH	6.25E+02	NA	NA	5.16E+01	<1 to 3		none	No Further Action.	No
CFA-41	Excess Drum Storage (south of CFA-674) 6.97E+03	TPH	<1,000	NA	NA	5.16E+01	<1 to 20		none	No Further Action.	No
CFA-43	Lead Storage Area 1.53E+04	Lead	1.80E+02	4.73E+02	1.70E+01		1 to 900		7.17E-02	No Further Action.	Yes
CFA-51	Dry Well at north end of CFA-640 1.00E-01	Cadmium	1.40E+01	NA	2.20E+00		<1 to 90		2.36E-03	No Further Action.	Yes
		Copper	2.50E+02	NA	2.20E+01		<1 to 2		2.11E+00		
		Selenium	6.00E-01	NA	2.20E-01		<1				
		Zinc	3.40E+02	NA	1.50E+02	6.37E+00	<1		8.11E-02		

Note: Shading indicates sites with contaminants HQs greater than 10 retained for the revaluation in the OU 10-04 RI/FS.

Table A1-5. Summary of WAG 5 ERA results.

Site	Description/Size (m^2)	COPC	Max.Conc. (mg/kg)[1]	Bkgd. Conc. (mg/kg)[1]	EBSL (mg/kg)[1]	HQ[a]	COPC ISSUE in WAG ERA	Site Remediation Plans (Preferred Alternative)	Site pushed to WAG 10
ARA-01	Chemical evaporation pond	Antimony	1.68E+01	4.80E+00	NA	<=10	YES	CS: Removal, Ex Situ Sorting	Yes
	(2,990 m^2)	Arsenic	2.58E+01	5.80E+00	NA	<= 20	YES	& On-Site Disposal	
		Cadmium	3.80E+00	2.20E+00	NA	<= 1000	YES		
		Chromium (III)	6.90E+01	3.30E+01	NA	<= 1	NO		
		Copper	2.55E+01	2.20E+01	NA	<= 10	YES		
		Lead	4.39E+01	1.70E+01	NA	<= 1 to <= 50	YES		
		Selenium	2.77E+01	2.20E-01	NA	<= 300	YES		
		Silver	1.27E+01	NA	2.00E+00	<= 8	YES		
		Thallium	5.92E+01	4.30E-01	NA	<= 1 to <= 400	YES		
		Vanadium	6.80E+01	4.50E+01	NA	<= 200	YES		
		Zinc	2.33E+02	1.50E+02	NA	<= 20	YES		
ARA-02	Septic tank soils	Arsenic	7.50E+00	5.80E+00	NA	<1	NO	Removal, Ex Situ Thermal	No
	(139 m^2)	Barium	1.00E+03	3.00E+02	NA	<1	NO	Treatment & Off-Site Disposal	
		Chromium (III)	1.83E+02	3.30E+01	NA	<= 1	NO		
		Copper	2.63E+01	2.20E+01	NA	<= 1	NO		
ARA-03	Pad near ARA-627	Arsenic	8.90E+00	5.80E+00	NA	<=1	NO	No Further Action	No
	(84 m^2)								
ARA-16	ARA-I radionuclide tank in	Fluoride	4.77E+00	NA	2.69E+00	<=1	NO	Removal, Ex Situ Thermal	No
	Concrete vault							Treatment & On-Site Disposal	
	(61 m^2)								

Table A1-5. (continued).

Site	Description/Size (m^2)	COPC	Max.Conc. (mg/kg)[1]	Bkgd. Conc. (mg/kg)[1]	EBSL (mg/kg)[1]	HQ[a]	COPC ISSUE in WAG ERA	Site Remediation Plans (Preferred Alternative)	Site pushed to WAG 10
ARA-25	Soil beneath the ARA-626 hot cells (178 m^2)	Aroclor-1254	1.60E-01	NA	1.66E-01	<=1	NO	CS: Removal, Ex Situ Sorting & On-Site Disposal	Yes
		Arsenic	4.06E+01	5.80E+00	NA	<= 1 to <= 20	YES		
		Chromium (III)	9.84E+01	3.30E+01	NA	<= 1[c]	NO		
		Cobalt	1.04E+02	1.10E+01	NA	<= 1 to <= 90	YES		
		Copper	2.27E+02	2.20E+01	NA	<= 1 to <= 40	YES		
		Lead	1.43E+03	1.70E+01	NA	<= 1 to <= 900	YES		
		Manganese	1.40E+03	4.90E+02	NA	<= 1 to <=6	NO		
		Mercury	9.70E-02	5.00E-02	NA	<= 1 to <= 3	NO		
		Nickel	3.88E+01	3.50E+01	NA	<= 1 to <= 6	NO		
		Selenium	6.59E-01	2.20E-01	NA	<= 1 to <= 3	NO		
		Silver[g]	7.24E+00	NA	2.00E+00	<=1	NO		
		Vanadium	1.04E+02	4.50E+01	NA	<= 1 to <= 100	YES		
		Zinc	8.55E+02	1.50E+02	NA	<= 1 to <= 20	YES		
ARA-12	Radiological waste leach pond (5,748 m^2)	Arsenic	7.28E+00	5.80E+00	NA	<= 1 to <= 7	YES	CS: Removal, Ex Situ Sorting & On-Site Disposal	Yes
		Cadmium	6.06E+00	2.20E+00	NA	<= 1 to <= 2,000	YES		
		Chromium (III)	4.69E+02	3.30E+01	1.00E+00	<= 9	YES		
		Copper	6.23E+02	2.20E+01	NA	<= 300	YES		
		Lead	1.58E+02	1.70E+01	NA	<= 300	YES		
		Manganese	5.70E+02	4.90E+02	NA	<= 40	YES		
		Mercury	1.40E+00	5.00E-02	NA	<= 90	YES		
		Selenium	2.70E+00	2.20E-01	NA	<= 30	YES		

Table A1-5. (continued).

Site	Description/Size (m^2)	COPC	Max.Conc. (mg/kg)[1]	Bkgd. Conc. (mg/kg)[1]	EBSL (mg/kg)[1]	HQ[a]	COPC ISSUE in WAG ERA	Site Remediation Plans (Preferred Alternative)	Site pushed to WAG 10
		Silver	5.70E+00	NA	2.00E+00	<=4	NO		
		Zinc	3.76E+02	1.50E+02	NA	<= 50	YES		
PBF-04	PBF Control Area oil tank (11 m^2) (SPERT-I)	Xylene	6.00E+01	NA	2.78E-01	<= 1	NO	No Further Action	No
PBF-10	PBF evaporation pond (1,820 m^2)	Chromium (III)	3.09E+02	3.30E+01	NA	<= 1 to <= 3	NO	No Further Action	No
PBF-16	SPERT-II leach pond (3,570 m^2)	Lead	3.21E+01	1.70E+01	NA	<= 60	YES	CS: Removal, Ex Situ Sorting	Yes
		Mercury	7.10E-01	5.00E-02	NA	<= 50	YES	& On-Site Disposal	
PBF-21	Large leach pond (288 m^2)	Cobalt	1.26E+01	1.10E+01	NA	<= 6	NO	No Further Action	No
		Copper	2.33E+01	2.20E+01	NA	<= 2	NO		
PBF-22	Leach pond (5,008 m^2)	Aroclor-1248[3]	1.20E-01	NA	1.66E-01	<1	NO	No Further Action	No
		Aroclor-1254	1.20E-01	NA	1.66E-01	<=1	NO		
		Arsenic	1.22E+01	5.80E+00	NA	<= 1 to <= 8	YES		
		Copper	4.84E+01	2.20E+01	NA	<= 20	YES		
		Lead	6.84E+01	1.70E+01	NA	<= 1 to <= 40	YES		
		Mercury	2.70E-01	5.00E-02	NA	<= 20	YES		
		Nickel	4.10E+01	3.50E+01	NA	<= 10	YES		
		Selenium	1.70E+00	2.20E-01	NA	<= 20	YES		
		Silver	1.19E+00	NA	2.00E+00	<= 1 to <= 3	NO		

Table A1-5. (continued).

Site	Description/Size (m^2)	COPC	Max.Conc. (mg/kg)[1]	Bkgd. Conc. (mg/kg)[1]	EBSL (mg/kg)[1]	HQ[a]	COPC ISSUE in WAG ERA	Site Remediation Plans (Preferred Alternative)	Site pushed to WAG 10
PBF-26	SPERT-IV Lake	Aroclor-1254	1.30E+01	NA	1.66E-01	<= 9	YES	No Further Action	Yes
	(20,092 m^2)	Arsenic	7.90E+00	5.80E+00	NA	<= 8	NO		
		Chromium (III)	6.40E+01	3.30E+01	NA	<= 2	NO		
		Copper	2.34E+02	2.20E+01	NA	<= 100	YES		
		Lead	4.30E+01	1.70E+01	NA	<= 100	YES		
		Mercury	3.40E-01	5.00E-02	NA	<= 20	NO		
		Nickel	4.50E+01	3.50E+01	NA	<= 20	NO		
		Silver	3.70E+01	NA	2.00E+00	<= 20	NO		
		Zinc	2.59E+02	1.50E+02	NA	<= 40	YES		

[1] pCi/g for radionuclides

[2] mg/kg for metals & organic compounds

[3] The minimum EBSL for PCBs (Aroclor-1254) was used.

[a] This represents the range of hazard quotients calculated across functional groups and threatened and endangered (T/E) species.

[b] Background concentrations are the 95%/95% UTLs for composite samples from Rood, Harris, and White (1996). NA = not applicable, a background value is not identified for the contaminant.

CS = Contaminated Soil Sites: ARA-01, ARA-12, ARA-23, ARA-25 & PBF-16.

Note: Shading indicates sites with contaminants having HQs greater than 10 retained for further evaluation in the OU 10-04 RI/FS.

Table A1-6. WAG 6 & 10 Summary Table.

Site	Description/Size (m2)	COPC	HQ IN WAG ERA[1]	Exposure Point Concentration (EPC) mg/kg	Site Remediation Plans (Preferred Alternative)
BORAX-01	Boiling Water Reactor Experiment (BORAX) II-V Leach Pond (167 m^2)	Cadmium	≤ 1 to ≤ 800	4.14E+00	
		Cobalt	≤ 1 to ≤ 8	9.12E+00	
		Mercury	≤ 1 to ≤ 2	4.20E-01	
BORAX-09	Boiling Water Reactor Experiment (BORAX) II-V Reactor Building (322 m^2)	Arsenic	≤ 1 to ≤ 2	7.70E+00	
		Manganese	≤ 1 to ≤ 14	3.99E+02	
		Mercury	≤ 1 to ≤ 6	1.20E+00	
Burn Ring	South of Experimental Field Station (13.39 m^2)	Chromium III	≤ 1 to ≤ 7	3.75E+01	
		Cobalt	≤ 1 to ≤ 5	1.11E+01	
		Copper	≤ 1 to ≤ 3	3.71E+01	
		Nitrate	≤ 1	3.10E+02	
		Zinc	≤ 1 to ≤ 80	2.71 E+03	
CFA-633	Naval Firing Site and Downrange Area (5,952 m^2)	2,4,6-Trinitrotoluene	≤ 1 to ≤ 2	6.43E+00	
		HMX	≤ 1 to ≤ 4	2.55+01	
		RDX	≤ 1 to ≤ 70	6.30E+00	
Crater	(72,200 m^2)	Copper	≤ 1 to ≤ 6	1.91E+01	
		Nitrate	≤ 1 to ≤ 4	2.60E+02	
		Nitrite	≤ 1 to ≤ 1	7.68E+01	
		Selenium	≤ 1 to ≤ 2	9.15E-01	
Experimental Field Station	Area #1 (376 m^2)	1,3-Dinitrobenzene	≤ 1 to ≤ 80	1.40E+01	TBD
		1,3,5-Trinitrobenzene	≤ 1 to ≤ 2	8.00E+01	
		2,4,6-Trinitrotoluene	≤ 1 to ≤ 300	1.10E+03	
		4-Amino-2,6-Dinitrotoluene	≤ 1 to ≤ 2	8.00E+00	
		Nitrate	≤ 1 to ≤ 3	4.06E+02	

Site	Description/Size (m2)	COPC	HQ IN WAG ERA[1]	Exposure Point Concentration (EPC) mg/kg	Site Remediation Plans (Preferred Alternative)
	Area #2 (19,500 m^2)	Nitrate	≤ 1 to ≤ 4	2.46E+02	
		Nitrite	≤ 1	8.14E+01	
Fire Station 2 Zone and Range Fire Burn Area	Area #1 (14,840 m^2)	2,4,6-Trinitrotoluene	≤ 1 to ≤ 20	6.20E+01	TBD
		Nitrate	≤ 1 to ≤ 5	3.40E+02	
		RDX	≤ 1 to ≤ 9	7.78E-01	
	Area #2 (14,916 m^2)	2,4,6-Trinitrotoluene	≤ 1 to ≤ 4	1.28E+01	
		Nitrate	≤ 1 to ≤ 4	2.70E+02	
		Nitrite	≤ 1	7.50E+01	
		RDX	≤ 1 to ≤ 40	3.70E+00	
	Area #3 (25.9 m^2)	Copper	≤ 1 to ≤ 3	2.42E+01	
		TPH	≤ 1 to ≤ 8	1.20E+02	
	Area #4 (364 m^2)	2,4,6-Trinitrotoluene	≤ 1 to ≤ 40	1.30E+02	
		Nitrate	≤ 1	1.90E+02	
LCCDA-01	(11 m^2)	Barium	≤ 1 to ≤ 5	4.03E+02	
		Cobalt	≤ 1 to ≤ 4	9.88E+00	
		Copper	≤ 1	2.34E+01	
		Manganese	≤ 1 to ≤ 10	5.69E+02	
LCCDA-02	(12 m^2)	Copper	≤ 1	1.62E+01	
		Manganese	≤ 1 to ≤ 6	3.27E+02	
Land Mine Fuse Burn Area	Area #2 (197,000 m^2)	Arsenic	≤ 1 to ≤ 7	8.90E+00	
		Lead	≤ 2	1.38E+01	
		Nitrate	≤ 1 to ≤ 3	1.90E+02	
		Selenium	≤ 2	9.00E-01	
	Area #3 (12.7 m^2)[a]	[redacted]			TBD
		2,4,6-Trinitrotoluene	≤ 1 to ≤ 10,000	6.90E+04	
		Nitrate	≤ 1 to ≤ 5	1.60E+03	
		TPH	≤ 1 to ≤ 5	1.51E+02	
		Zinc	≤ 1 to ≤ 10	4.46E+02	

Site	Description/Size (m2)	COPC	HQ IN WAG ERA[1]	Exposure Point Concentration (EPC) mg/kg	Site Remediation Plans (Preferred Alternative)
National Oceanic and Atmospheric Administration (NOAA)	Area #1 (71,400 m^2)	Nitrate	≤ 1 to ≤ 5	2.90E+02	
		Nitrite	≤ 1	6.50E+01	
	Area #2 (74,800 m^2)	Nitrate	≤ 1 to ≤ 5	3.10E+02	
		Nitrite	≤ 2	1.15E+02	
	Area #2a (6,396 m^2)	2,4,6-Trinitrotoluene	≤ 1 to ≤ 200	8.64E+02	TBD
		RDX	≤ 1 to ≤ 10	1.17E+00	
	Area #3 (19,189 m^2)	2,4,6-Trinitrotoluene	≤ 1 to ≤ 100	4.01E+02	
		Nitrate	≤ 1 to ≤ 5	3.00E+02	
		RDX	≤ 1 to ≤ 20	1.78E+00	
	Area #4 (25,000 m^2)	Nitrate	≤ 1 to ≤ 3	2.10E+02	
	Area #5 (2,564 m^2)	1,3,5-Trinitrobenzene	≤ 2	7.70E+01	
		2,4,6-Trinitrotoluene	≤ 1 to ≤ 500	1.90E+03	
		Nitrate	≤ 1 to ≤ 3	4.10E+02	
	Area #6 (2,209 m^2)	1,3-Dinitrobenzene	≤ 1 to ≤ 200	2.70E+01	
		2,4,6-Trinitrotoluene	≤ 1 to ≤ 100	4.80E+02	
		Nitrate	≤ 2	2.50E+02	
Naval Ordnance Disposal Area	Area #2 (206,000 m^2)	1,3-Dinitrobenzene	≤ 2	2.77E-01	TBD
		Arsenic	≤ 1 to ≤ 6	7.32E+00	
		Barium	≤ 1 to ≤ 70	2.21E+02	
		Cadmium	≤ 1 to ≤ 500	1.81E+00	
		Chromium III	≤ 1 to ≤ 5	2.72E+01	
		Cobalt	≤ 1 to ≤ 50	8.85E+00	
		Copper	≤ 1 to ≤ 30	5.68E+02	
		Lead	≤ 1 to ≤ 5	3.63E+01	
		Manganese	≤ 1 to ≤ 10	3.50E+02	
		Mercury	≤ 1 to ≤ 8	3.03E-01	
		Nitrate	≤ 1 to ≤ 3	1.64E+02	
		Nitrite	≤ 1	8.09E+01	

Site	Description/Size (m2)	COPC	HQ IN WAG ERA[1]	Exposure Point Concentration (EPC) mg/kg	Site Remediation Plans (Preferred Alternative)
		Pentachlorophenol	≤ 1 to ≤ 3	1.00E+00	
		RDX	≤ 1 to ≤ 4,000	3.28E+02	
		Strontium	≤ 1 to ≤ 4	6.44E+01	
		Vanadium	≤ 1 to ≤ 10	2.66E+01	
		Zinc	≤ 1 to ≤ 10	1.66E+02	
	Area #3 (810,000 m^2)	Barium	≤ 1 to ≤ 90	2.98E+02	
		Chromium III	≤ 1 to ≤ 5	2.37E+01	
		Cobalt	≤ 1 to ≤ 70	1.14E+01	
		Copper	≤ 1 to ≤ 8	2.45E+01	
		Lead	≤ 2	1.78E+01	
		Manganese	≤ 1 to ≤ 20	4.53+02	
		Vanadium	≤ 1 to ≤ 10	2.44E+01	
		Zinc	≤ 1 to ≤ 10	1.59E+02	
	Area #4 (929 m^2)	Manganese	≤ 1 to ≤ 20	5.55E+02	
		TPH-diesel	≤ 1 to ≤ 80	1.20E+03	
OMRE-01	(504 m^2)	Arsenic	≤ 2	7.20E+00	
Rail Car	Area #2 (195,000 m^2)	Arsenic	≤ 1 to ≤ 5	6.78E+00	
		Nitrate	≤ 1 to ≤ 4	2.60E+02	
		Thallium	≤ 1 to ≤ 3	5.38E-01	
	Area #3 (218,000 m^2)	Nitrate	≤ 1 to ≤ 5	3.46E+02	
	Area #5 (220,000 m^2)	Nitrate	≤ 1 to ≤ 3	4.50E+01	
	Area #6 (216,000 m^2)	Nitrate	≤ 1 to ≤ 4	2.60E+02	
		Nitrite	≤ 2	1.10E+02	
Security Training Facility Gun Range	Berm STF-02, remainder area (13,112 m^2)	Antimony	≤ 1 to ≤ 4	1.49E+01	TBD
		Arsenic	≤ 1 to ≤ 3	7.13E+00	
		Copper	≤ 1 to ≤ 10	5.42E+01	
		Lead	≤ 1 to ≤ 2,000	2.44E+04	
		Zinc	≤ 1 to ≤ 8	1.09E+02	

Site	Description/Size (m2)	COPC	HQ IN WAG ERA[1]	Exposure Point Concentration (EPC) mg/kg	Site Remediation Plans (Preferred Alternative)
Security Training Facility Gun Range	STF-02, kickout area (20,000 m^2)	Arsenic	≤ 1 to ≤ 4	5.71E+00	
		Copper	≤ 1 to ≤ 6	2.11E+01	
		Lead	≤ 2	2.67E+01	
		Manganese	≤ 1 to ≤ 20	4.74E+02	
UXO East of TRA	(23,400 m^2)	2,4,6-Trinitrotoulene	≤ 1	4.60E+00	
		Nitrate	≤ 1 to ≤ 3	2.10E+02	
		Nitrite	≤ 1	6.27E+01	

[1] HQs differ from those reported in the RI/FS.

TBD- to be determined

a. 1,3-dinitrobenzene and 2,4-dinitrobenzene were not assessed as contaminants at the Land M<ine and Fuze Burn Area because of uncertainties associated with the lab analysis. The exposure point concentrations used in the ERA were based on sample results that the lab flagged as a nondetect. There were significant issues with lab methods and the sample matrix that resulted in extremely high detection limits. These uncertainties limit the ability to determine risk to ecological receptors. However, the Land Mine and Fuze Burn Area are currently being evaluated for remediation from 2,4,6-TNT contamination, and presumably 1,3-dinitrobenzene and 2,4-dinitrotoluene would also be treated or removed as part of that remediation action. Post-remedial sampling for the Land Mine and Fuze Burn Area would also include analyzing for 1,3-dinitrobenzene and 2,4-dinitrotoluene to determine if any residual contamination is left behind. These COPCs are also being retained for the OU 10-04 ERA.

Table A1-7. Summary of WAG 9 ERA results.

Results of WAG 9 ERA Site	Description/Size (m^2)	COPCs	Max. Conc. (mg/kg)[1]	Bkgd. Conc. in RI (mg/kg)[1]	Bkgd. Conc. (mg/kg)[1]	EBSL (mg/kg)[1]	HQ	Site Remediation Plans (Preferred Alternative)	Site Screened Using 10x Criteria
ANL-01	Industrial Waste Pond and	Aluminum	3.20E+04	2.40E+04	1.60E+04	NA	<=4000	Phytoremediation.	
	Cooling Tower Blowdown	Antimony	7.70E+00	7.40E+00	4.80E+00	NA	<=8		
	Ditches (3)	Arsenic	2.50E+01	7.40E+00	5.80E+00	NA	<=20		
	(12,140 m^2)	Barium	1.70E+03	4.40E+02	3.00E+02	NA	<=20,000		
		Beryllium	3.90E+00	3.00E+00	1.80E+00	NA	<=5		
		Cadmium	4.20E+00		2.20E+00	NA	<=2000		
		Chlorine as chloride	4.10E+01		NA	NA	<=4		
		Chromium (III)	1.00E+04	5.00E+01	3.30E+01	NA	<=5000		
		Chromium (VI)	1.10E+03	5.00E+01	NA	1.67E-01	<=700		
		Copper	2.00E+02	3.20E+01	2.20E+02	NA	<=80		
		Cyanide	5.90E+00	NA	NA	2.15E-02	<=60		
		Fluoride	9.10E+00	NA	NA	3.11E+00	NC		
		Lead	3.80E+01	2.30E+01	1.70E+01	NA	<=90		
		Manganese	7.70E+02	7.00E+02	4.90E+02	NA	<=50		
		Mercury	3.90E+00	7.40E-02	5.00E-02	NA	<=300		
		Nickel	9.20E+01	5.50E+01	3.50E+01	NA	<=30		
		NO_3^-	9.50E+00	NA	NA	NA	NC		
		PO_4^{3-}	8.10E+03	NA	NA	NA	NC		
		Selenium	8.40E+00	3.40E-02	2.20E-01	NA	<=90		
		Silver	3.80E+01	NA	NA	1.39E+00	<=30		
		SO_4^{2-}	3.30E+03	NA	NA	1.77E+01	<=200		
		Thallium	1.00E+00	6.80E-01	4.30E-01	NA	<=7		
		Vanadium	1.10E+02	7.00E+01	4.00E+01	NA	<=400		
		Zinc	5.00E+03	2.20E+02	1.50E+02	NA	<=700		

Table A1-7. (continued).

Results of WAG 9 ERA Site	Description/Size (m^2)	COPCs	Max. Conc. (mg/kg)[1]	Bkgd. Conc. in RI (mg/kg)[1]	Bkgd. Conc. (mg/kg)[1]	EBSL (mg/kg)[1]	HQ	Site Remediation Plans (Preferred Alternative)	Site Screened Using 10x Criteria
ANL-01A	Main Cooling Tower Blowdown Ditch (288 m^2)	Antimony	5.10E+01	7.40E+00	4.80E+00	NA	<=10	Phytoremediation	
		Arsenic	3.50E+01	7.40E+00	5.80E+00	NA	<=20		
		Barium	1.00E+03	4.40E+02	3.00E+02	NA	<=2000		
		Beryllium	4.20E+00	3.00E+00	1.80E+00	NA	NC		
		Chromium (III)	7.10E+02	5.00E+01	3.30E+01	NA	<=400		
		Chromium (VI)	7.90E+01	5.00E+01	NA	1.67E-01	<=40		
		Cobalt	2.60E+01	1.80E+01	1.10E+01	NA	<=10		
		Copper	2.09E+02	3.20E+01	2.20E+02	NA	>10 to <100		
		Cyanide	2.80E+00	NA	NA	2.15E-02	<=2		
		Lead	7.40E+01	2.30E+01	1.70E+01	NA	<=20		
		Manganese	1.20E+03	7.00E+02	4.90E+02	NA	<=20		
		Mercury	8.80E+00	7.40E-02	5.00E-02	NA	<=100		
		Nickel	9.90E+02	5.50E+01	3.50E+01	NA	<=8		
		Selenium	2.10E+00	3.40E-02	2.20E-01	NA	<=5		
		Silver	2.30E+01	NA	NA	1.39E+00	<=10		
		Vanadium	7.40E+01	7.00E+01	4.00E+01	NA	<=40		
		Zinc	8.50E+02	2.20E+02	1.50E+02	NA	<=20		
ANL-04	ANL Sewage Lagoons (7,200 m^2)	Antimony		7.40E+00	4.80E+00	NA	>1 to <10	Phytoremediation.	
		Arsenic	1.00E+01	7.40E+00	5.80E+00	NA	<=30		
		Barium	5.60E+02	4.40E+02	3.00E+02	NA	<=5000		
		Chromium III	6.90E+01	5.00E+01	3.30E+01	NA	<=30		
		Copper	3.50E+02	3.20E+01	2.20E+02	NA	<=100		
		Lead	1.20E+02	2.30E+01	1.70E+01	NA	<=200		
		Mercury	3.30E+00	7.40E-02	5.00E-02	NA	<200		
		Selenium	3.50E+00	3.40E-02	2.20E-01	NA	<=40		
		Silver	3.70E+01	NA	NA	1.39E+00	<=20		

Table A1-7. (continued).

Site	Results of WAG 9 ERA Description/Size (m^2)	COPCs	Max. Conc. (mg/kg)[1]	Bkgd. Conc. in RI (mg/kg)[1]	Bkgd. Conc. (mg/kg)[1]	EBSL (mg/kg)[1]	HQ	Site Remediation Plans (Preferred Alternative)	Site Screened Using 10x Criteria
		Vanadium	7.30E+01	7.00E+01	4.00E+01	NA	<=200		
		Zinc	2.40E+03	2.20E+02	1.50E+02	NA	<=300		
ANL-09	ANL Interceptor Canal	Arsenic	9.70E+00	7.40E+00	5.80E+00	NA	<=20	Phytoremediation.	
	(3,848 m^2)	Copper	3.50E+01	3.20E+01	2.20E+02	NA	<=10		
		Lead	3.50E+01	2.30E+01	1.70E+01	NA	<=90		
		Mercury	2.70E-01	7.40E-02	5.00E-02	NA	<=20		
		Silver	1.50E+00	NA	NA	1.39E+00	NC		
ANL-29	Industrial Waste Lift Station	Silver	5.40E+03	NA	NA	1.39E+00	<=3000	No Further Action.	
	(9 m^2)								
ANL-35	Industrial Waste Lift Station	Aluminum	3.00E+04	2.40E+04	1.60E+04	NA	<=3,000	Phytoremediation.	
	Discharge Ditch	Arsenic	1.20E+01	7.40E+00	5.80E+00	NA	<=20		
	(900 m^2)	Barium	6.50E+02	4.40E+02	3.00E+02	NA	<=4,000		
		Beryllium	5.80E+00	3.00E+00	1.80E+00	NA	<=5		
		Cadmium	4.80E+00	3.70E+00	2.20E+00	NA	<=1,000		
		Chromium (III)	5.10E+01	5.00E+01	3.30E+01	NA	<=30		
		Copper	1.30E+02	3.20E+01	2.20E+02	NA	<=40		
		Cyanide	3.90E+00	NA	NA	2.15E-02	<=10		
		Lead	4.70E+01	2.30E+01	1.70E+01	NA	<=50		
		Manganese	1.20E+03	7.00E+02	4.90E+02	NA	<=60		
		Mercury	3.10E-01	7.40E-02	5.00E-02	NA	<=20		
		Nickel	6.40E+01	5.50E+01	3.50E+01	NA	<=20		
		Selenium	9.40E-01	3.40E-02	2.20E-01	NA	<=10		
		Silver	3.50E+02	NA	NA	1.39E+00	<=200		
		SO_4^{2-}	1.40E+02	NA	NA	1.77E+01	<=5		

Table A1-7. (continued).

Results of WAG 9 ERA Site	Description/Size (m^2)	COPCs	Max. Conc. (mg/kg)[1]	Bkgd. Conc. in RI (mg/kg)[1]	Bkgd. Conc. (mg/kg)[1]	EBSL (mg/kg)[1]	HQ	Site Remediation Plans (Preferred Alternative)	Site Screened Using 10x Criteria
		Thallium	7.00E-01	6.80E-01	4.30E-01	NA	<=4		
		Vanadium	7.20E+01	7.00E+01	4.00E+01	NA	<=100		
		Zinc	2.30E+02	2.20E+02	1.50E+02	NA	<=20		
		HpCCD	4.00E-06	NA	NA	1.10E-06	<=2		
		OCDD	1.00E-05	NA	NA	1.10E-06	<=2		
ANL-36	TREAT Photo Processing Ditch(243 m^2)	Silver	1.70E+01	NA	NA	1.39E+00	<=9	No Further Action.	
ANL-61A	PCB Spill next to ANL-61 (19 m^2)	PCBs	5.50E+01	NA	NA	8.20E+00	None exceeded target values. (<1)	No Further Action.	
ANL-62	Sodium Boiler Building (766) Hotwell (675 m^2)	Tritium	No info	NA	NA	NA	No information.	No Further Action.	
		Hydrazine	3.00E+03	NA	NA	7.17E-04	Did not exceed target values. (<1)		

NA = Not available or not applicable

Note: Shading indicates sites with contaminants having HQs greater than 10 retained for further evaluation in the OU 10-04 RI/FS.