



**Remediation Workers Exposure Assessment Feasibility Study
At The Department of Energy's INEEL Site
Phase I: Appendix**

Study Initiated under Contract With:
TRI-S, Incorporated 4960 Ridge Road, Suite 2 Cincinnati, Ohio 45213
Task Order # 9835, Contract Number 200-98-2006

Submitted to **National Institute for Occupational Safety and Health (NIOSH)**
Division of Surveillance Hazard Evaluation and Field Studies (DSHEFS),
Health-related Energy Research Branch (HERB)

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Appendix 1: Comprehensive List of INEEL Waste Sites by Waste Area Group (WAG) as of June 1999

Appendix 1 was created from the INEEL on-line Administrative Record (AR) (<http://ar.inel.gov>). Each waste site within each INEEL Operable Unit (OU) (within each WAG) was researched. AR documents pertaining to each waste site were downloaded and reviewed. The most current information concerning each waste site was extracted from the reports and entered into a Microsoft Access Database. Some waste sites minimal information available within the AR and other waste sites have considerable information. Waste types and worker groups were assigned for each waste site according to the classification methods described in Section 6.0 of the Phase I Report.

Fields within this database include (Table = waste site):

- 1) Operable Unit
- 2) Status (No Further Action, RI/FS, ROD)
- 3) Waste Site Title
- 4) Waste Site Description
- 5) WAG, Associated Building / Facility Number
- 6) Waste Type (Radiological, Chemical, or Mixed)
- 7) Contaminants of Concern
- 8) Associated Remediation Worker Task (CW, HW, De, Di)
- 9) Reference Tracking Number (Refers to the INEEL_References database)

Note: Some waste types are classified as 'Radiological' if they contain sanitary waste, groundwater, or are located in a potentially radiological area. The waste type is based upon hazard potential as well as actual contaminates of concern. Refer to Section 6.0 of the Phase I Report for a detailed description of waste types and worker group classification.

A disk containing the database accompanies this Appendix. The file is named INEELActivities2000. Three hundred and fifty documents were used to create this database and are referenced within the INEEL References database which also accompanies this Report / Appendix.

The INEELActivities2000 database contains other tables containing lists of D&D and SNF projects. These lists were presented in the main document called Phase 1: Report. Other tables within the database include a list of INEEL WAGs and a list of INEEL Operable Units. Tables with the database were designed to be relational so that other reports could be generated.

TAN (WAG 01) Waste Sites

WasteSite: IET-01 Gasoline Storage Tank	TAN - 627	WasteType: Chemical	Ref: 390
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-02	No Further Action	IET-01 Gasoline Storage Tank is a 5,000 gal. UST located NW of TAN-627. Presently, only gasoline residue is suspected to remain. The contamination route of concern is groundwater.	gasoline residue	HW

WasteSite: IET-02 Burial Pit	TAN -	WasteType: Radiological	Ref: 431
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1/NA	No Further Action	IET-02 is a pit NE of IET suspected of being used for sampling during IET Tests. No hazardous materials are suspected and no dates of use are known.		CW

WasteSite: IET-04 Stack Rubble Site	TAN -	WasteType: Radiological	Ref: 413
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-05	No Further Action	The IET stack was explosively demolished and buried in an excavated hole. Cs-137 is the identified contaminant. No hazardous chemicals have been identified.	cesium-137	CW

TAN (WAG 01) Waste Sites

WasteSite: IET-05 Foam Stabilization Tank			TAN - 625	WasteType: Radiological	Ref: 365
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-01	No Further Action	The IET Foam Stabilizer Tank is a 550-gal. underground tank located south of TAN-625. Presently, only non-contaminated waste water is suspected to remain in the tank. The contamination route of primary concern is groundwater.			CW

WasteSite: IET-06 Injection Well			TAN -	WasteType: Chemical	Ref: 366
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-01	No Further Action	The IET Injection Well received wastes from the ion exchange column. The well injected wastewater directly to the aquifer. The chemicals involved included sulfuric acid and sodium hydroxide. It was assumed that the acids and bases neutralized each other.	sulfuric acid sodium hydroxide		HW

WasteSite: IET-07 Hot Waste Tank			TAN - 319	WasteType: Radiological	Ref: 409
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-05	No Further Action	The IET Hot Waste Tank was part of the IET radioactive wastewater collection system. Once in the tank, water was either pumped to TSF or trucked to ICPP. The UST now contains contaminated sludge. The contamination route of concern is groundwater. RA occurred in 1985.	sludge		CW

TAN (WAG 01) Waste Sites

WasteSite: IET-08 Septic Tank TAN-710 & Filter Bed	TAN -	WasteType: Radiological	Ref: 433
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1/NA	No Further Action	The system has been used for sanitary liquid waste from the facilities on site. The only known waste to have gone into the system is sewage from the building toilets and washsinks. The contamination route of concern is groundwater.		CW

WasteSite: IET-09 Lube Oil Tank	TAN - 625	WasteType: Chemical	Ref: 391
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-02	No Further Action	IET-09 Lube Oil Tank is a 550 gal UST located east of TAN-625. Presently, only lube oil residue is suspected to remain. The contamination route of concern is groundwater.	lube oil residue	HW

WasteSite: IET-10 Diesel Fuel UST	TAN - 625	WasteType: Chemical	Ref: 393
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-02	No Further Action	IET-10 is a 30,000 gal. diesel fuel UST located east of TAN-625. In 1990, excavation and removal activities began with transportation and disposal at CFA. The pit was back-filled.	petroleum barium, cadmium, mercury, nickel, silver, zinc xylenes TPH-diesel	HW

TAN (WAG 01) Waste Sites

WasteSite: IET-11 Heating Oil UST			TAN - 625	WasteType: Chemical	Ref: 392
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-02	No Further Action	IET-11 is a 20,000 gal UST and is located east of TAN-625. It was a diesel fuel storage tank. In 1989 the tank contained diesel fuel with no detectable chlorinated hydrocarbons. Excavation and removal activities began in 1989 with transportation to CFA for disposal. The pit was then back-filled.	ethylbenzene toluene diesel fuel		HW
WasteSite: LOFT-01 Diesel Fuel Spills			TAN - 629	WasteType: Chemical	Ref: 417
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-06	No Further Action	Fuel overflowed to a drain pipe twice. The drain pipe leads to a ditch outside the NE side of TAN-629. It is suspected that the diesel soaked into the ground while still in the ditch. The contamination route of concern is groundwater.	diesel		HW
WasteSite: LOFT-02 Disposal Pond			TAN - 750	WasteType: Mixed	Ref: 404
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-04	No Further Action	The LOFT Pond was used for disposal of low level radioactive wastewater and industrial wastewater. Sulfuric acid and sodium hydroxide were the primary chemicals. It was assumed that the acids and bases neutralized each other.	LLRW sulfuric acid sodium hydroxide		HW CW

TAN (WAG 01) Waste Sites

WasteSite: LOFT-03 Rubble Pit			TAN -	WasteType: Chemical	Ref: 367
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-01	No Further Action	The LOFT-03 Rubble Pit is small pit south of the disposal pond that appears to have construction waste. No hazardous materials are suspected and no known dates of operation exist.			HW
WasteSite: LOFT-04 Injection Well			TAN -	WasteType: Radiological	Ref: 432
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1/NA	No Further Action	This injection well was used for disposal of cooling water to which no chemicals were added. The well discharged directly to aquifer. The contamination route of concern is groundwater.			CW
WasteSite: LOFT-05 Fuel Tanks (2)			TAN - 650	WasteType: Chemical	Ref: 380
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-02	No Further Action	The LOFT Fuel Tanks (TAN 109A and 109B) are 10,000 gal USTs located S.W. of TAN-650. Presently, only fuel oil residue is suspected to remain in the tank bottoms. The contamination route of concern is groundwater.	fuel oil residue		HW

TAN (WAG 01) Waste Sites

WasteSite: LOFT-06 Slop Tanks	TAN - 621	WasteType: Chemical	Ref: 379
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-02	No Further Action	The LOFT Slop Tank is a 2,000 gallon UST located east of TAN-621. Presently, only jet fuel residue is suspected to remain in the tank bottom. The contamination route of concern is groundwater.	jet fuel residue	HW

WasteSite: LOFT-07 Foam Solution Tank	TAN - 631	WasteType: Mixed	Ref: 368
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-01	Interim Action	The LOFT-07 Foam Solution Tank is a 5,000-gal underground storage tank located east of TAN-631. Presently, only non-contaminated wastewater is suspected to remain in the tank. The contamination route of primary concern is groundwater.		CW

1-08	No Further Action	LOFT-07 is a 5,000 gallon tar-coated steel UST that was removed. It contained 900 gallons of firefighting suppressant that was removed and disposed at an off-site hazardous waste facility. The tank was cleaned and cut down. The soil showed no contamination. RA occurred in 1994.	firefighting suppressant	HW
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WasteSite: LOFT-08 Tank in Borrow Pits	TAN - 630	WasteType: Chemical	Ref: 378
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-02	No Further Action	The LOFT Tank in Borrow Pits (TAN-110) is a 15,000 gal UST located south of TAN-630. Presently, only jet fuel residue is suspected to remain in the tank. The contamination route of concern is groundwater.	jet fuel residue	HW

TAN (WAG 01) Waste Sites

WasteSite: LOFT-09 Septic Tank & Drainfield TAN-762		TAN - 762	WasteType: Radiological	Ref: 437
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1/NA	No Further Action	The system has been used for sanitary liquid waste from the facilities on site. The only known waste to have gone into the system is sewage from the building toilets and washsinks. Contamination to groundwater is a concern.		CW

WasteSite: LOFT-10 Sulfuric Acid Spill		TAN - 629	WasteType: Chemical	Ref: 418
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-06	No Further Action	The acid spill (LOFT-10 Sulfuric Acid Spill TAN-771) that occurred in 1983 on the NE side of TAN-629 was partly removed and partly neutralized. The remaining soil which was still at low pH was excavated and taken to a pit north of LOFT.	sulfuric acid	HW

WasteSite: LOFT-11 Cryogen Pits (3)		TAN - 629	WasteType: Chemical	Ref: 369
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-01	No Further Action	The LOFT Cryogen Pits were used for the disposal of liquid nitrogen. Presently, only waste water is suspected to remain in the pit. The contamination route of primary concern is groundwater.	nitrogen	HW

TAN (WAG 01) Waste Sites

WasteSite: LOFT-12 PCB Spill			TAN -	WasteType: Chemical	Ref: NA
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-08	Interim Action	Included in OU 1-10.			HW
1-10	No Further Action	LOFT North Transformer Yard PCB Spill and Soil Site was remediated in 1994.			HW

WasteSite: LOFT-13 Dry Well TAN-333			TAN - 333	WasteType: Radiological	Ref: 438
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1/NA	No Further Action	The LOFT Dry Well is located about 10 feet away from an abandoned guardstation. There are no connecting drain lines associated with this well. Therefore, there is no evidence of hazardous materials being disposed of there.			CW

WasteSite: LOFT-14 Asbestos Pipe			TAN -	WasteType: Chemical	Ref: 377
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-01	No Further Action	LOFT-14 was an abandoned pipe covered with asbestos insulation that was located on the ground surface. In July 1991 the asbestos on the pipe was removed and disposed of at CFA landfill.	asbestos		De

TAN (WAG 01) Waste Sites

WasteSite:	LOFT-15 Buried Asbestos Pit	TAN -	WasteType: Chemical	Ref: 376
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-01	No Further Action	LOFT-15 is the former site of a construction materials burn pit. The burn pit was originally a depression approx. 2 to 4 ft deep where wood, brick, mortar, nails, steel reinforcement bars, gypsum board, and asbestos were disposed and burned. In 1991, the plastic from the trench was exposed by heavy rains and the potential for asbestos migration from the site was therefore possible. The plastic was recovered with soil and a berm was placed around the site. In 1992 the soils were excavated and transported to the CFA Landfill Extension III asbestos disposal area.	asbestos	HW

WasteSite:	LOFT-16 Landfill	TAN -	WasteType: Radiological	Ref: 430
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-10	No Further Action			CW

WasteSite:	TSF-01 Diesel Tank and Spill	TAN - 607	WasteType: Chemical	Ref: 370
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-01	No Further Action	To the west of TAN-607, an underground fuel tank (diesel fuel) was found to be leaking. About 500 gallons had leaked at the time of discovery. It is unknown how much leaked before then. The contamination route of primary concern is groundwater.	diesel fuel	HW

TAN (WAG 01) Waste Sites

WasteSite:	TSF-02 Service Station Spill	TAN - 664	WasteType: Chemical	Ref: 397
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-03	No Further Action	Spill of 217 gallons of gasoline at the TSF Service Station. The contamination route of concern is groundwater.	gasoline	HW

WasteSite:	TSF-03 Burn Pit	TAN -	WasteType: Chemical	Ref: 396
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-03	RI/FS	A landfill-type operation where garbage and burnable debris were disposed of. Materials were set a fire after each deposit. Materials included waste petroleum products generated at TAN. The contamination route of concern is groundwater.	petroleum	HW
1-10	ROD	The TSF-03 burn pit is located in the NE corner of the TSF outside the facility fence. The site is covered with soil.	lead	HW

WasteSite:	TSF-04 Gravel Pit / Acid Pit	TAN -	WasteType: Chemical	Ref: 371
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-01	No Further Action	This gravel pit northwest of TAN/TSF has received waste, primarily construction rubble. However, there is evidence that it did receive at least one drum of chemical waste. The contamination route of primary concern is groundwater.		HW

TAN (WAG 01) Waste Sites

WasteSite: TSF-05 TAN Injection Well		TAN -	WasteType: Mixed	Ref: 364
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-07A	Ongoing Maintenance/Monitoring	(Interim Action) Within TAN, the Technical Support Facility (TSF-05) injection well was used to dispose of industrial and sanitary wastes and waste waters from 1952 to 1972. Types of wastes disposed of included LLRW and process wastes, corrosive wastewater, ignitable wastes, chromium, lead, and mercury. Currently, the TSF-05 injection well is closed securely, locked, and sealed. Remedial action for this site includes pumping the contaminated groundwater from the injection well and treating the ground water onsite using filtration, air stripping, carbon adsorption, ion exchange, modifying the existing TAN on-site disposal pond, transporting spent carbon offsite, and installing two additional monitoring wells. ROD in September 1992. RA occurred in February 1994.	trichloroethene	HW
			1,2-dichloropropane	CW
			tritium	
			strontium, cesium-137	
			lead	
1-07B	RA	(RA) The principal source of groundwater contamination at TAN is the TSF-05 (Technical Support Facility) Injection Well located at the southeast corner of TSF. TSF-05 was used from 1953 to 1972 to dispose of TAN liquid wastes. Releases to TAN groundwater were first identified in 1987 in production wells that supplied drinking water to TSF. Treatment to this site includes groundwater plume extraction and treatment of heavily TCE-contaminated plume and hydraulic containment of TSF-05 Injection Well hotspot with above ground treatment (Bioremediation). ROD in August 1995 and Remedial Design in March 1997.	trichloroethene (TCE)	HW
			tetrachloroethene (PCE)	CW
			1,2-dichloroethene	
			tritium	
			uranium-234, cesium-137	

TAN (WAG 01) Waste Sites

WasteSite: TSF-06 TSF-1 Area B			TAN - 607	WasteType: Radiological	Ref: 406
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-05	RI/FS	The TSF-1 Area covers approx. 560,000 square feet and is located within a barbed wire fence NW of TAN-607. The area is radioactively contaminated, and a reactor core is buried in the SW corner of the site. No hazardous materials are suspected of being in the area.			CW
1-10	ROD	The soil contamination area south of the turntable (TSF-06) is an open area bounded by the TSF fence on the west and facility roads and several adjacent structures on the east. Surface soil at the site was contaminated by wind-blown radioactive particles from the contaminated soil at the PM-2A tank area.	cesium-137		CW

WasteSite: TSF-07 Disposal Pond			TAN - 736	WasteType: Radiological	Ref: 415
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-06	No Further Action	The surface impoundment was designed to receive wastewater with low radioactivity and treated sanitary sewage. It has also received some industrial type wastewater and borated waste transported from the LOFT. The contamination route of concern is groundwater.			CW
1-10	ROD	TSF-07 is an unlined disposal pond SW of TSF. Historically the pond received sanitary waste discharges, LLRW, industrial waste water and treated sewage effluent.	cesium-137 radium-226 (naturally occurring)		CW

TAN (WAG 01) Waste Sites

WasteSite: TSF-08 Mercury Spill Area			TAN - 607	WasteType: Mixed	Ref: 416
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-06	No Further Action	There is evidence that approx. 1 gallon of mercury spilled outside the high bay door of TAN-607 and not completely cleaned up. The contamination route of concern is groundwater.	mercury		HW
1-08	RI/FS	Mercury Spill Sites 13b and 13C are located in Sections F and H of TSF-08. TSF-08 includes the portion of the railroad track system where the Heat Transfer Reactor Experiment III engines were stored and traveled along the soil approx. 3 feet on each side of the tracks. The RA included excavation, removing visible elemental mercury, separation of mercury from soil and containing, storing, and removing the soil to storage. This occurred during the end of 1994 and beginning of 1995.	mercury		HW
			Co-60		CW
			Cs-137		
1-10	ROD	The spill area is a section of railroad bed near TAN-607. The area was contaminated in 1958 by a large mercury spill from the Heat Transfer Reactor Experiment-III engine. RA was conducted in 1994; however, contamination still remains. Phytoremediation (the use of plants) may be used for this area.	mercury		HW

WasteSite: TSF-09 UST (V-Tank#1)			TAN -	WasteType: Mixed	Ref: 411
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-05	RI/FS	The TSF Intermediate Level Waste Disposal System was designed to receive and treat radioactive waste to be discharged to a controlled surface pond. As of 1975, there is no known hazardous material reaching this process. The contamination route of concern is groundwater.			CW

TAN (WAG 01) Waste Sites

WasteSite: TSF-09 UST (V-Tank#1)			TAN -	WasteType: Mixed	Ref: 411
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-10	ROD	TSF-09 contains 3 abandoned 10,000 gallon USTs, the contents, and the surrounding soil. The tanks were used to collect and treat radioactive liquid effluents from TAN operations.	cesium-137		CW
			heavy metals		HW
			organic compounds		
			PCBs		
WasteSite: TSF-10 Drainage Pond			TAN - 782	WasteType: Chemical	Ref: 410
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-05	No Further Action	This pond received process drains from TAN/TSF area. It is suspected of receiving inorganic chemicals and some corrosives. Since this pond is unlined, groundwater contamination is of concern.			HW
WasteSite: TSF-11 Three Clarifier Pits			TAN - 604	WasteType: Radiological	Ref: 372
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-01	No Further Action	The clarifier pits were used for the disposal of sewage wastewater. No hazardous materials are suspected of being disposed of in these pits. The contamination route of primary concern is groundwater.			CW
1-08	No Further Action	TSF-11 is the site of a concrete tank composed of three settling pits that were removed. The pits received waste waters from a paint room located in TAN-604. Approx. 385 gallons of sludge, gravel and water were removed from the pits and disposed of as LLRW at RWMC and INEEL. The concrete tank was decontaminated and disposed of at the CFA.			CW
					De

TAN (WAG 01) Waste Sites

WasteSite: TSF-12 Acid Neutralization Tanks			TAN - 602	WasteType: Chemical	Ref: 399
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-04	No Further Action	The neutralization tanks are underground and can hold capacities of 2000 gallons. Sulfuric acid and sodium hydroxide are the major hazardous materials involved. The tanks are of unknown condition, but are expected to be not-leaking. It was assumed that the acids and bases neutralized each other.	sulfuric acid sodium hydroxide		HW
WasteSite: TSF-13 Gasoline Tank			TAN - 610	WasteType: Chemical	Ref: 381
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-02	No Further Action	The TSF-13 Gasoline Tank is a 550 gal UST located north of TAN-610. Presently, only 200 gallons of gasoline is suspected to remain in the tank. The contamination route of concern is groundwater.	gasoline		HW
WasteSite: TSF-14 Fuel Oil Tank			TAN - 603	WasteType: Chemical	Ref: 382
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-02	No Further Action	The TSF-14 Fuel Oil Tank is a 500 gal UST located NW of TAN-603. Presently, only fuel oil residue is suspected to remain in the bottom. The contamination route of concern is groundwater.	fuel oil residue		HW

TAN (WAG 01) Waste Sites

WasteSite: TSF-15 Fuel Oil Tank			TAN - 603	WasteType: Chemical	Ref: 385
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-02	No Further Action	The TSF-15 Fuel Oil Tank (TAN 777) is a 3,000 gal UST located west of TAN-603. Presently, only fuel oil residue is suspected to remain in the tank bottom. The contamination route of concern is groundwater.	fuel oil residue	HW

WasteSite: TSF-16 Brine Pit			TAN - 608	WasteType: Radiological	Ref: 436
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1/NA	No Further Action	This brine pit was used for the disposal of waste water from water softener units. There is no evidence of hazardous materials being disposed there. The contamination route of primary concern is groundwater.		CW

WasteSite: TSF-17 Two Neutralization Pits			TAN - 649	WasteType: Chemical	Ref: 400
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-04	No Further Action	These are USTs used for neutralizing acids and bases. The materials involved were sulfuric acid and sodium hydroxide. The tank condition is assumed as not leaking. It was assumed that the acids and bases neutralized each other. RA occurred in 1993.	sodium hydroxide sulfuric acid	HW

TAN (WAG 01) Waste Sites

WasteSite:	TSF-18 Contaminated Tank (V-Tank#2)	TAN - 616	WasteType: Mixed	Ref: 412
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-05	RI/FS	This contaminated tank SE of Tank V-3 is a 10,000 gallon UST located SE of TAN-616. It was used to contain radioactively contaminated wastewater.		CW

1-10	ROD	This V-tank includes an abandoned 400-gallon UST, a sand filter on the ground surface, tank contents, and the surrounding soil. The tank contains approx. 110 gallons of liquid and 25 gallons of sludge. The tanks were used to collect and treat radioactive liquid waste from TAN operations.	cesium-137	CW
			heavy metals	HW
			organic compounds	
			PCBs	

WasteSite:	TSF-19 Caustics Tank V-4	TAN - 616	WasteType: Chemical	Ref: 403
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-04	No Further Action	Caustic Tank V-4 is located south of TAN-616 and was used for storing corrosive materials. Presently, only sodium hydroxide and/or sulfuric acid are suspected to remain. The contamination route of concern is groundwater. RA occurred in 1993.	sodium hydroxide	HW
			sulfuric acid	

WasteSite:	TSF-20 Two Neutralization Pits	TAN - 607	WasteType: Chemical	Ref: 402
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-04	No Further Action	Two pits located at the north end of TAN-607 were used for neutralizing corrosives. The materials involved were sulfuric acid and sodium hydroxide. It was assumed that the acids and bases neutralized each other. RA occurred in 1993.	sulfuric acid	HW
			sodium hydroxide	

TAN (WAG 01) Waste Sites

WasteSite:	TSF-21 IET Valve Pit	TAN -	WasteType: Radiological	Ref: 414
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-05	No Further Action	This is an underground valve pit made of concrete that contains valves which operated water flow between the TSF and the IET Facility. It is no longer used and surveys have shown radioactive contamination in the pit. RA occurred in 1993.		CW

WasteSite:	TSF-22 Railroad Turntable	TAN -	WasteType: Chemical	Ref: 421
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-08	No Further Action	The turntable was used by the HTRE engines during testing operations. Minor leaks of mercury have occurred from the engines over the years. During recent remodeling work on the turntable a mercury vapor detection found low levels of mercury in the pit under the tracks.	mercury	HW

WasteSite:	TSF-23 Surrounding Groundwater Contamination	TAN -	WasteType: Mixed	Ref: 428
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-07A	Ongoing Maintenance/Monitoring	(IA) Groundwater contamination surrounding the TSF-05 Injection Well.	trichloroethene	HW
			cesium-137	CW
1-07B	RA	(RA) Groundwater contamination surrounding the TSF-05 Injection Well.	trichloroethene (TCE)	HW
			cesium-137	CW

TAN (WAG 01) Waste Sites

WasteSite: TSF-24 Oil Sump		TAN - 609	WasteType: Chemical	Ref: 387
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-02	No Further Action	TSF-24 Oil Sump is an underground storage sump for fuel oil. Presently, only fuel oil residue is suspected to remain. The contamination route of concern is groundwater.	fuel oil residue	HW

WasteSite: TSF-25 Fuel Tank		TAN - 607	WasteType: Chemical	Ref: 386
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-02	No Further Action	The TSF-25 Fuel tank is a 3,000 gal UST located at SW corner of TAN-607. Presently, only fuel oil residue is suspected to remain in the tank bottom. The contamination route of concern is groundwater.	fuel oil residue	HW

WasteSite: TSF-26 UST (PM2 Tanks)		TAN - 710	WasteType: Mixed	Ref: 407
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-05	RI/FS	These two USTs (TAN-710A and TAN-710B) were used to collect radioactive wastewater and bottoms from an evaporator. The tanks are housed in concrete vaults with no evidence of leakage. The contamination route of primary concern is groundwater.		CW

1-10	ROD	The site consists of 2 abandoned 50,000 gallon USTs and the contaminated soil surrounding them. The tanks previously stored concentrated LLRW from the TAN evaporator from 1955 to 1981. The tanks contain contaminated sludge. Contaminated soil was removed in 1996 as part of a RA, however contamination still remains.	cesium-137	HW
			heavy metals	CW
			organic compounds	
			PCBs	

TAN (WAG 01) Waste Sites

WasteSite: TSF-27 Paint Shop Floor Drain Leach Field			TAN - 636	WasteType: Chemical	Ref: 430
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-10	No Further Action				HW

WasteSite: TSF-28 Sewage Treatment Plant & Sludge Drying Be			TAN - 623	WasteType: Radiological	Ref: 419
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-08	No Further Action	The system was used for the treatment of sanitary liquid waste from INEEL facilities. The only known waste to have gone into the system is sewage from the building toilets and washsinks. The contamination route of concern is groundwater.			CW
1-10	No Further Action	Contamination not sufficient to cause unacceptable risk.			CW

WasteSite: TSF-29 Acid Pond			TAN - 735	WasteType: Chemical	Ref: 405
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-04	No Further Action	This pond received process drains from TAN/TSF area. It is suspected of receiving some corrosive materials (sulfuric acid). Since this pond is unlined, groundwater contamination is of concern. Further action was determined in May 1996. RI/FS will proceed with OU 1-10 Comprehensive.	sulfuric acid		HW

TAN (WAG 01) Waste Sites

WasteSite: TSF-30 Septic Tank			TAN - 602	WasteType: Radiological	Ref: 435
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1/NA	No Further Action	The system has been used for sanitary liquid waste from the facilities on site. The only known waste to have gone into the system is sewage from the building toilets and washsinks.		CW

WasteSite: TSF-31 Acid Pit			TAN - 647	WasteType: Chemical	Ref: 401
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-04	No Further Action	The TSF-31 Acid Pit west of TAN-647 was used for the disposal of corrosive materials. Presently only sulfuric acid is suspected of having been disposed of. The contamination route of concern is groundwater.	sulfuric acid	HW

WasteSite: TSF-32 Oil Tank			TAN - 601	WasteType: Chemical	Ref: 384
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-02	No Further Action	The TSF-32 Oil Tank (TAN 775) is a 10,000 gallon UST located at the south end of TAN-601. Presently, only jet fuel oil residue is suspected to remain in the tank bottom. The contamination route of concern is groundwater.	jet fuel oil residue	HW

TAN (WAG 01) Waste Sites

WasteSite: TSF-33 (T-11) Fuel Tank			TAN - 602	WasteType: Chemical	Ref: 383
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-02	No Further Action	The T-11 Fuel Tank is a UST located east of TAN-602. Presently, only fuel oil residue is suspected to remain in the tank bottom. Contamination route of primary concern is groundwater.	fuel oil residue	HW

WasteSite: TSF-34 Fuel Tank			TAN - 607	WasteType: Chemical	Ref: 441
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1/NA	No Further Action	TSF-34 was a fuel tank located under the southwest corner of Building TAN-607. The tank received waste fuel from a floor drain in Building TAN-609 when TAN-609 was used for static tests of jets using conventional fuels.	fuel	HW

WasteSite: TSF-35 Acid Sump			TAN -	WasteType: Chemical	Ref: NA
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-02	No Further Action			HW

TAN (WAG 01) Waste Sites

WasteSite: TSF-36 TAN-603 French Drain			TAN - 603	WasteType: Mixed	Ref: 427
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-09	No Further Action	TSF-36 is a french drain located approx. 10 ft north of TAN-603. The drain is an unlined hole covered by a concrete manhole cover. The drain was used for disposal of wastewaters from the condensate return sump system and is now abandoned. The wastewaters may have contained low levels of petroleum compounds from diesel fuels. In 1961, approx. 1 gal of liquid contaminated with radionuclides was drained from the flash tank located outside TAN-603 into the TSF-36 french drain. RA occurred in 1994. The drain is now monitored.	diesel fuel		HW
			6.48 pCi/g of Cesium-137		CW
WasteSite: TSF-37 Contaminated Well Water Spill			TAN -	WasteType: Mixed	Ref: 429
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-08	No Further Action	TSF-37 Contaminated Well Water Spill is the site of a 22,000 gallon spill of water from a 50,000 gallon aboveground tank containing water purged from the TSF-05 injection well. A RI/FS occurred in 1996.			CW
1-09	No Further Action	TSF-37 was the site of a 22,000 gallon spill of water from an aboveground 50,000 gal tank containing TSF-05 injection well water. The spill occurred due to the freezing of the drain valve in 1988. Soil was boxed shortly after the spill and transported to RWMC. Currently, samples indicate the area is of no threat.	trichloroethene, tetrachloroethene		CW
			1,1-dichloroethane, 1,1-dichloroethene methylene chloride, vinyl chloride strontium-90, tritium cesium-137		HW

TAN (WAG 01) Waste Sites

WasteSite: TSF-38 Bottle Site			TAN -	WasteType: Chemical	Ref: 395
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-03	No Further Action	The TSF-38 TAN Laboratory Container Disposal Area site is located north of the Special Manufacturing Facility (SMF) / Contained Test Facility (CTF) complex (formerly known as LOFT) and east of the TAN gravel pit. The site consisted of two earth mounds. Information of buried materials at the site was not available, so the site was determined as a removal action. Excavation material was transported to the CFA landfill. Beneath red-stained soil, bottles containing yellow-green substances were found. These were analyzed. The TSF-38 cleanup action was discontinued before all debris and stained soil were removed because it was evident that there was more debris and potential soil contamination buried at site than anticipated. TSF-38 will be addressed further in OU 1-10 Comprehensive RI/FS. However, in 1996, TSF-38 was determined as no further investigation after RA in 1994.	asbestos		HW
			barium		
			molybdenum		
			lead		
			cadmium		
WasteSite: TSF-39 Transite (Asbestos) Contamination			TAN -	WasteType: Chemical	Ref: 375
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-01	No Further Action	TSF-39 is a site consisting of small pieces of asbestos cement (transite) contamination, scattered over an area approx. .5 mile long by 400 ft wide. TSF-39 was discovered in 1991 during clean-up of construction debris. It appears that the transite was once buried or covered under loose soil.	asbestos		HW
WasteSite: TSF-40 Rubble Site			TAN - 629	WasteType: Chemical	Ref: 439
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1/NA	No Further Action	This site includes rubble plies located southwest of the WRRTF. It consists primarily of lava rock and concrete from construction of the WRRTF and other facilities. The rubble was disposed at the site by construction contractors. An asbestos clean-up of the rubble piles was performed in late summer 1989 which primarily involved collection and removal of asbestos chips and heat shielding blankets.	asbestos		HW

TAN (WAG 01) Waste Sites

WasteSite: TSF-41 Scrap Yard South			TAN -	WasteType: Chemical	Ref: 440
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1/NA	No Further Action	Scrap materials at this site were originally segregated by type, i.e. stainless steel, aluminum, and copper, and stored in separate sections of the yard. The yard was potentially contaminated with hazardous materials from batteries and asbestos-bearing materials.	asbestos batteries copper aluminum		HW
WasteSite: TSF-42 TAN-607A Room 161 Contaminated Pipe			TAN - 607A	WasteType: Radiological	Ref: 373
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-01	No Further Action	TSF-42 is the site of a 6 inch diameter pipe internally contaminated with radioactive material. The pipe is surrounded by concrete and located under the floor of Room 161. Room 161 contained decontamination and chemical cleaning equipment and was used to decontaminate and clean large radioactively contaminated equipment/parts from the TAN and LOFT from 1950 to 1984. The pipe was connected to drains in Room 161.			CW
WasteSite: TSF-43 Radioactive Parts Service and Storage Area			TAN - 647	WasteType: Radiological	Ref: 374
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
1-01	No Further Action	TSF-43 consists of the Radioactive Parts, Service, and Storage Area (RPSSA) and the concrete and asphalt pads surrounding buildings TAN-647 and TAN-648. The buildings and pads are controlled access areas. The surfaces are radioactively contaminated with low levels.			CW

TAN (WAG 01) Waste Sites

WasteSite:	TSF-44 Diesel Fuel Pipeline Leak	TAN -	WasteType: Chemical	Ref: 430
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-10	No Further Action	Remediated after release.	diesel fuel	HW

WasteSite:	TSF-45 AEC Burial Pit	TAN -	WasteType: Radiological	Ref: 430
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-10	No Further Action	No evidence of hazardous material.		CW

WasteSite:	WRRTF-01 Burn Pit	TAN -	WasteType: Chemical	Ref: 398
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-03	R/FS	This landfill operation was used for the disposition of garbage and burnable debris generated at TAN. Included were petroleum products that burned routinely. The contamination route of concern is groundwater.	petroleum	HW

1-10	ROD	The four WRRTF-01 burn pits are approximately 2,700 feet north of WRRTF. The pits are covered with 6 inches of clean soil and revegetated.	lead	HW
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TAN (WAG 01) Waste Sites

WasteSite: WRRTF-02 Phase Pond	TAN - 763	WasteType: Chemical	Ref: 425
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-09	No Further Action	This unlined surface impoundment receives only wastes from the two-phase loop experiments. Hydrazine is the only contaminant of concern and it is small in quantity. Contamination route of primary concern is groundwater.	hydrazine	HW

WasteSite: WRRTF-03 Evaporation Pond	TAN - 762	WasteType: Chemical	Ref: 423
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-09	No Further Action	This unlined surface impoundment has received those wastes that used to go to the injection well. Ion-exchange column regenerant is the only suspected hazardous material. The contamination route of concern is groundwater.	ion-exchange column regenerant	HW

WasteSite: WRRTF-04 Radioactive Liquid Waste Tank	TAN - 735	WasteType: Radiological	Ref: 408
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-05	No Further Action	The 3000 gallon UST was used to collect waste water suspected of being radioactively contaminated. The water collected did not exceed release criteria, but the sludge on the bottom has not been tested. No hazardous chemicals are suspected of entering the system. RA occurred in 1993.		CW

TAN (WAG 01) Waste Sites

WasteSite: WRRTF-05 Injection Well	TAN - 331	WasteType: Mixed	Ref: 420
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-08	No Further Action	The injection well received industrial wastewater and treated sanitary sewage. Discharges included ion-exchange column regenerant and one instance of a small amount of radioactive contamination. The well injected directly to the aquifer. The contamination route of concern is groundwater.	ion-exchange column regenerant LLRW	HW CW
1-10	No Further Action	Contamination not sufficient to cause unacceptable risk.		CW HW

WasteSite: WRRTF-06 Sewage Lagoon	TAN - 762	WasteType: Chemical	Ref: 424
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-09	No Further Action	This unlined surface impoundment has received those wastewaters that used to go to the injection well. Ion-exchange column regenerant is the only suspected hazardous material. Contamination to groundwater is a concern.	ion-exchange column regenerant	HW

WasteSite: WRRTF-07 Septic Tank TAN-737 & Sandfilters	TAN - 737	WasteType: Radiological	Ref: 434
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1/NA	No Further Action	The system has been used for sanitary liquid waste from the facilities on site. The only known waste to have gone into the system is sewage from the building toilets and washsinks. The contamination route of concern is groundwater.		CW

TAN (WAG 01) Waste Sites

WasteSite: WRRTF-09 Diesel Fuel Tank	TAN - 645	WasteType: Chemical	Ref: 389
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-02	No Further Action	The WRRTF-09 Diesel Fuel Tank (Tank 103) is a 2500 gal. UST located SE of TAN-645. Presently, only fuel oil residue is suspected to remain in the tank. The contamination route of concern is groundwater.	fuel oil residue	HW

WasteSite: WRRTF-10 Gasoline Tank	TAN - 644	WasteType: Chemical	Ref: 388
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-02	No Further Action	The WRRTF-10 Gasoline Tank is a 550 gal. UST located at TAN-644. Presently, only gasoline residue is suspected to remain. The contamination route of concern is groundwater.	gasoline residue	HW

WasteSite: WRRTF-12 Diesel Fuel UST	TAN - 641	WasteType: Chemical	Ref: 394
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-02	No Further Action	WRRTF-12 is a 1000 gal Diesel Fuel UST located NW of TAN-641. It was deactivated in 1975. In 1989, water-contaminated diesel was pumped from the tank and recovered as fuel. Excavation and removal began shortly after. The pit was then back-filled.	VOC vapors petroleum chlorinated hydrocarbons ethylbenzene, toluene, xylenes TPH-diesel	HW

TAN (WAG 01) Waste Sites

WasteSite: WRRTF-13 Fuel Leak (Spill)		TAN -	WasteType: Chemical	Ref: 429
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
1-08	RI/FS	This site is the environmental contamination associated with the fuel product discovered in the water level access tube located next to the WRRTF-05 injection well. Preliminary scoping indicated that the fuel may have originated from leaking fuel oil tanks and transfer piping within WRRTF. Groundwater contamination was not present but soil contamination exists in the area where the suspect tanks and piping were removed.	fuel oil	HW
1-10	ROD	This site is contaminated by leaks from tanks and piping. The tanks supplied diesel fuel and heating oil to buildings within the facility. Some tanks and lines along with contaminated soil was removed and disposed in 1990. Contamination still remains.	oils diesel fuel	HW

TRA (WAG 02) Waste Sites

WasteSite:	Engineering Test Reactor Stack	TRA -	WasteType: Chemical	Ref: 539
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-13	No Further Action	Located outside and east of the TRA perimeter fence and west of the Warm Waste Pond. The site was suspected to have PCB contamination because tar-containing PCBs were used to coat the inside of the stack, and this tar coating had deteriorated since 1957 when the stack was put in operation and started to leak out the north access door.	PCBs	HW

WasteSite:	Hot Tree Site	TRA -	WasteType: Radiological	Ref: 539
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-13	No Further Action	Located in the center of TRA. Screening of the branches of a spruce tree indicated it was contaminated with gamma-emitting radionuclides. The tree was removed, boxed and dispositioned in May 1994. Soil was later sampled. The highest radiologically contaminated areas were located west of the Hot Tree Site, suggesting that a nearby abandoned warm waste line was the contamination source. Adjacent trees were surface screened in August 1994. Adjacent trees did not indicate contamination. The Hot Tree indicated a radiation dose rate of 30 to 40 microrem/hr at waist height and suggests that contamination was confined to the Hot Tree Site.	gamma-emitting radionuclides	CW
			30 to 40 microrem/hr	De

WasteSite:	PW-13 Diesel Fuel Contamination	TRA -	WasteType: Chemical	Ref: 454
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-04	No Further Action	This site is a monitoring well site where diesel fuel was discovered at a depth of 65 to 75 feet during drilling operations.	ethylbenzene	HW
			diesel	

TRA (WAG 02) Waste Sites

WasteSite: TRA-01 Acid Spill Disposal Pit			TRA - 608	WasteType: Chemical	Ref: 450
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
2-03	No Further Action	This site is a burial site containing excavated soil from a 1983 sulfuric acid spill. The acid in the soil was immediately neutralized at the spill site prior to excavation and burial. There are no problems remaining.	sulfuric acid		HW

WasteSite: TRA-02 Paint Shop Ditch			TRA - 606	WasteType: Chemical	Ref: 442
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
2-01	No Further Action	This ditch was used for disposal of small quantities of paint waste including solvents. The area is a shallow depression approx. 15ft long and 2 feet deep. Chemicals dumped included mineral spirits, xylene, toluene, acetone, and suspected lead from lead based paints.	xylene toluene acetone lead		HW

WasteSite: TRA-03A Warm Waste Leach Pond			TRA - 758	WasteType: Mixed	Ref: 364
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
2-11	No Further Action	Addressed in OU 2-10.			HW

TRA (WAG 02) Waste Sites

WasteSite: TRA-03B Warm Waste Pond			TRA - 758	WasteType: Radiological	Ref: 364
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
2-10	No Further Action/Monitoring	The Warm Waste Pond is composed of three wastewater infiltration/evaporation ponds that received, over a course of 40 years, reactor cooling water, radioactive wastewater, and regenerative solutions from ion exchange columns. The selected remedial action for this site includes onsite physical separation of large and fine-grained materials, followed by treatment of contaminated sediment. ROD in 1991. RA occurred in June 1994. Five year review was in Sept. 1998.	hexavalent chromium		CW
			cesium-37		HW
			cobalt-60		
2-13	RA	The pond contamination is composed of 1) sediments (Co-60,C-137) from radionuclide wastewater discharges to the three cells built in 1952, 1957, and 1964, 2) soil and asphalt consolidated to clean up windblown radionuclide soil contamination from the Warm Waste Pond, 3) material generated during an interim action to clean up the 1964 cell, and 4) soil from miscellaneous radionuclide soil contaminated sites across the INEEL. Following the agency approved interim action at the 1964 cell, the 1952 cell was covered with a minimum of 1 foot of clean fill material and the 1964 cell was covered with approx. 10 feet of clean fill material. The Warm Waste Pond cells were replaced in 1994 with a lined evaporation pond.	Co-60		CW
			Cesium-137		

WasteSite: TRA-04 Warm Waste Retention Basin			TRA - 712	WasteType: Mixed	Ref: 466
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
2-11	RI/FS	This facility is an underground concrete basin that is used to hold water going to the TRA Warm Waste Pond until the radioactivity level drops to acceptable levels for discharge. Chemicals passing through the basin included sodium hydroxide and minor amounts of lab wastes. To be included in OU 2-13 RI/FS.	sodium hydroxide		CW
			lab wastes		HW

TRA (WAG 02) Waste Sites

WasteSite: TRA-05 Waste Disposal Well, Sampling Pit and Sump TRA - 760			WasteType: Mixed	Ref: 465
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-11	RI/FS	This injection well was used for the disposal of cooling tower blowdown water that was radioactive (1964 to 1982). The water was treated with chromates for corrosion inhibition. Aquifer is a concern. The Disposal Well was determined as No Further Action. The Sampling Pit and Cold Waste Sump will be evaluated in the OU 2-13 RI/FS.	chromium radiological sludge	CW HW
WasteSite: TRA-06 Chemical Waste Pond TRA - 701			WasteType: Chemical	Ref: 539
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-13	RA	ROD completed in December 1997. This site consists of contaminated sediments located in the Chemical Waste Pond, an unlined disposal pond located in the NE part of TRA. The pond was put into service in 1962. The CWP receives demineralization plant mineral salt effluents. In addition, other solid and liquid wastes including corrosives were disposed directly into the pond until 1982. Contaminants evaluated as chemicals of concern were metals.	antimony, arsenic barium manganese mercury zinc	HW
WasteSite: TRA-07 Sewage Treatment Plant & Sludge Pit TRA - 732			WasteType: Radiological	Ref: 464
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-09	RI/FS	This facility receives sewage from the TRA buildings. There is no record of HW entering the system. The treatment facility was in operation until 1995 then decommissioned. Included in OU 2-13 RI/FS.		CW

TRA (WAG 02) Waste Sites

WasteSite: TRA-08 Cold Waste Disposal Pond			TRA - 702	WasteType: Mixed	Ref: 462
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
2-09	RI/FS	This facility receives non-radioactive waste water from the TRA reactors. There is no evidence of HW entering the system with the exception of approx. .0001 tons of chromate (reported in 1986). The pond is not lined. In 1993, the pond processed 250 million gallons of non rad waste water. To be included in OU 2-13 RI/FS.	chromate		CW
2-13	RA	This site consists of contaminated sediments located in the Cold Waste Pond, which is composed of two cells. Effluents discharged to the pond have been exclusively nonradioactive. These effluents including cooling tower effluent, and discharges from floor drains, air conditioning units, and other nonradioactive drains. Several metals and radionuclides were in the contaminated sediment. The source of radionuclides is suspected to be windblown contamination from the Warm Waste Pond.	arsenic, barium		CW
			cadmium, mercury		HW
			cesium-137		
			cobalt-60		
			europium-154		
WasteSite: TRA-09 Spills at TRA Loading Dock			TRA - 722	WasteType: Chemical	Ref: 452
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
2-04	No Further Action	This is the former site of the loading dock. When the dock was removed, several stained areas underneath were discovered. Contamination is unknown but is assumed to be oil. Quantities are unknown, but are assumed to be small.	oil		HW

TRA (WAG 02) Waste Sites

WasteSite:	TRA-10 MTR Construction Excavation Pile	TRA -	WasteType: Radiological	Ref: 470
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2/NA	No Further Action	Pile of construction rubble and backfill. No record of HW.		CW

WasteSite:	TRA-11 French Drain	TRA - 645	WasteType: Chemical	Ref: 447
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-03	No Further Action	This drain was used for catching overflow runoff from a sulfuric acid tank used in a demineralizer operation. There was no constant flow to the drain but there were reports of occasional flow if the tank was overfilled.	sulfuric acid	HW

WasteSite:	TRA-12 Fuel Oil Tank Spill	TRA - 727B	WasteType: Chemical	Ref: 448
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-03	No Further Action	This is an overflow from an above ground fuel oil tank. Approximately 100 gallons flowed over the top of the tank and ran down the sides. It soaked into the ground around the tank and any free liquid was cleaned up. The tank is dry.	fuel oil	HW

TRA (WAG 02) Waste Sites

WasteSite:	TRA-13 Final Sewage Leach Ponds (2)	TRA - 732	WasteType: Radiological	Ref: 463
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-09	RI/FS	These leach ponds are used to provide tertiary treatment for the sewage plant. The liquid effluent from the final clarifier goes into the ponds. There is no record of HW. The pond was in operation until 1995 then decommissioned. Included in OU 2-13 RI/FS.		De CW

WasteSite:	TRA-13 Sewage Leach Pond	TRA - 732	WasteType: Mixed	Ref: 539
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-13	RA	Berm/Soil Contamination. (SLP-SCA) Soil contamination is associated with sewage leach pond.		CW HW
2-13	RA	The Sewage Leach Pond is composed of two cells and is located outside the security fence and directly east of the central part of the TRA. The system has been used since 1952 to receive sanitary sewer drain effluents from TRA facilities. When construction of a new and improved sewage treatment facility was completed in December 1995, the old Sewage leach Pond was removed from service. Sampling of sediments from the pond showed that only metals and radionuclides were present. The source of the radioactive contaminants is suspected to be windblown from the Warm Waste Pond.	mercury zinc cesium-137 cobalt-60	CW HW

TRA (WAG 02) Waste Sites

WasteSite: TRA-14 Inactive Gasoline Tank			TRA - 605	WasteType: Chemical	Ref: 445
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-02	No Further Action	This is a buried 1000 gallon tank used by TRA-605. There is no record of the tank condition but it is assumed to be good.	gasoline	HW

WasteSite: TRA-15 Hot Waste Tanks 2,3,4			TRA - 613	WasteType: Radiological	Ref: 455
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-05	No Further Action	This site is comprised of two underground concrete vaults each of which contained two 10,000 gallon radioactive waste tanks. One tank was removed and the others are not in service.		CW
2-13	RA	(Soil Surrounding) This site consists of subsurface soil contamination at the site of an underground tank that leaked. The leaking tank was removed; however, three tanks in concrete basins located 18 feet below ground surface remain. Contamination was detected from near ground surface to a depth of 38 feet below the ground surface. Surface radioactive waste spills and or leaks from associated warm waste lines are also believed to have contributed to contamination at this site.	HLW	CW

WasteSite: TRA-16 Inactive Radioactive Contaminated Tank			TRA - 614	WasteType: Mixed	Ref: NA
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-05	No Further Action	A 300 gallon UST that received waste from metallurgy laboratory. The tank was removed.	arsenic	HW
			mercury	CW
			uranium 234	
			uranium 238	

TRA (WAG 02) Waste Sites

WasteSite:	TRA-17 Inactive Gasoline Tank at TRA-616	TRA - 616	WasteType: Chemical	Ref: 444
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-02	No Further Action	This tank was buried. The condition is unknown and the tank has been drained and filled with sand.	gasoline	HW

WasteSite:	TRA-18 Inactive Gasoline Tank	TRA - 619	WasteType: Chemical	Ref: 443
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-02	No Further Action	This is an inactive buried 500 gallon gasoline tank that was used by TRA-619. There is no record of the condition of the tank but it is assumed to be good.	gasoline	HW

WasteSite:	TRA-19 Brass Cap Area	TRA -	WasteType: Radiological	Ref: 539
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-13	RA	This site consists of radioactively contaminated soil located below the ground surface inside the security fence at the TRA. The source of contamination is attributed to a leaking warm waste line. Some contaminated soil and concrete were excavated and removed during repair of the leaking line. The excavation was backfilled with clean soil and the concrete surface was replaced. Contaminated soil is said not to exist at this site.		CW

TRA (WAG 02) Waste Sites

WasteSite:	TRA-19 Rad Tanks 1&4 Replaced by 1,2,3,4	TRA - 630	WasteType: Radiological	Ref: 455
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-05	No Further Action	This site consists of potential releases from the site of four USTs contained within a concrete vault. The tanks, used to store radioactive waste, were replaced by a new vault and tanks in 1985 and 1986. They are now assumed to not leak.		CW

WasteSite:	TRA-19 Soil Surrounding Tanks 1,2	TRA - 630	WasteType: Radiological	Ref: 539
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-13	RA	This site consists of soil contamination below the ground surface resulting from releases from four underground catch tanks and associated piping located near Building TRA-630. The four tanks and the concrete vault were replaced with four new tanks and a new vault between 1985 and 1986. The original tanks were intact upon removal, therefore, subsurface contamination is believed to have originated from leaking warm waste lines.		CW

WasteSite:	TRA-20 Brine Tank TRA-731	TRA - 631	WasteType: Chemical	Ref: 449
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-03	No Further Action	This facility was used for mixing demineralizer brine (NaCl). It is now used as a flow through system for the sulfuric acid/sodium hydroxide demineralizer system. The waste goes through the tank to the corrosive waste pond. There is no hazardous waste in the system at this time; however, if it leaked in the past, there could be soil contamination.	NaCl sulfuric acid sodium hydroxide	HW

TRA (WAG 02) Waste Sites

WasteSite:	TRA-21 inactive Tank, North Side of MTR-643	TRA - 643	WasteType: Chemical	Ref: 445
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-02	No Further Action	This is a buried 500 gallon diesel fuel tank for the MTR reactor building. The condition of the tank is unknown but is assumed to be good.	diesel fuel	HW

WasteSite:	TRA-22 Inactive Diesel Fuel Tank at ETR-648	TRA - 648	WasteType: Chemical	Ref: 446
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-02	No Further Action	This is a buried 2000 gallon diesel fuel tank used by the ETR reactor building. The condition of the tank is unknown but is assumed to be good.	gasoline	HW

WasteSite:	TRA-23 ETR Excavation Site Rubble Pile	TRA -	WasteType: Radiological	Ref: 471
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2/NA	No Further Action	Used for disposing construction rubble from ETR building. No record of HW.		CW

TRA (WAG 02) Waste Sites

WasteSite:	TRA-24 Guardhouse Construction Rubble Pile	TRA -	WasteType: Radiological	Ref: 472
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2/NA	No Further Action	Rubble pile. No known HW.		CW

WasteSite:	TRA-25 Sewer Plant Settling Pond Rubble Pile	TRA -	WasteType: Radiological	Ref: 473
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2/NA	No Further Action	Used for construction debris. No known HW.		CW

WasteSite:	TRA-26 Rubble Site by USGS Observation Well	TRA -	WasteType: Radiological	Ref: 474
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2/NA	No Further Action	The pile has unknown origin. Inspection reveals no HW.		CW

TRA (WAG 02) Waste Sites

WasteSite: TRA-27 North Storage Area Rubble Pile		TRA -	WasteType: Radiological	Ref: 475
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2/NA	No Further Action	General construction debris pile. No known HW.		CW

WasteSite: TRA-28 North Landfill Rubble Site		TRA -	WasteType: Radiological	Ref: 476
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2/NA	No Further Action	General construction debris from TRA. No known HW. Note: Landfill instead of pile.		CW

WasteSite: TRA-29 ATR Construction Rubble		TRA -	WasteType: Radiological	Ref: 477
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2/NA	No Further Action	Construction rubble. No HW recorded.		CW

TRA (WAG 02) Waste Sites

WasteSite:	TRA-30 Beta Building Rubble Site	TRA -	WasteType: Chemical	Ref: 456
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-06	No Further Action	This rubble site is located wets of TRA outside of the perimeter fence. The site consists of general debris (concrete and metal) associated with the construction of the TRA Beta building in 1968. A single lead brick at the site has since been removed.	lead	HW

WasteSite:	TRA-31 West Rubble Site	TRA -	WasteType: Chemical	Ref: 456
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-06	No Further Action	This site is a rubble pile located waste of TRA. The site consists of two distinct rubble piles containing construction debris. A previous report of the existence of asbestos was not confirmed during a site inspection in 1992.	asbestos	HW

WasteSite:	TRA-32 West Road Rubble Pile	TRA -	WasteType: Radiological	Ref: 478
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2/NA	No Further Action	Received general construction debris. No HW recorded.		CW

TRA (WAG 02) Waste Sites

WasteSite:	TRA-33 West Staging Area Drainage Ditch Rubble	TRA -	WasteType: Radiological	Ref: 479
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2/NA	No Further Action	Received Construction Rubble. No HW recorded.		CW

WasteSite:	TRA-34 North Storage Area	TRA -	WasteType: Mixed	Ref: 453
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-04	No Further Action	This site was used for outside storage of excess equipment and materials. It had both cold waste and radioactively contaminated items including two 500 gallon tanks of an oily waste and piles of radioactively contaminated lead.	lead	HW
			oil	CW

WasteSite:	TRA-35 Rubble Site East of West Road (Near Beta)	TRA -	WasteType: Radiological	Ref: 456
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-06	No Further Action	This site is located west of TRA and consists of one rubble pile containing concrete cylinders associated with the construction of a facility at TRA.		CW

TRA (WAG 02) Waste Sites

WasteSite: TRA-36 ETR Cooling Tower Basin			TRA - 751	WasteType: Chemical	Ref: 458
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
2-07	No Further Action	This site was the location of the old ETR Reactor Cooling Tower. Cooling water had chromate for corrosion inhibition up to 1971. Water may have splashed out of the tower onto the ground. The tower has been torn down.	chromate		De HW
WasteSite: TRA-37 MTR Canal in Basement			TRA - 603	WasteType: Radiological	Ref: 461
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
2-08	No Further Action	This site is the result of the leakage of contaminated water from the canal into the subsurface soils. Contaminated groundwater is a concern.	cadmium beryllium cesium cobalt		CW
WasteSite: TRA-38 ATR Cooling Tower			TRA - 771	WasteType: Chemical	Ref: 459
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
2-07	No Further Action	This site is the location of the ATR Reactor Cooling Tower. Cooling water contained chromate inhibitors for corrosion control up to 1971. Water may have splashed out. The tower has been torn down.	chromate		HW

TRA (WAG 02) Waste Sites

WasteSite:	TRA-39 Cooling Tower	TRA - 607	WasteType: Chemical	Ref: 460
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-07	No Further Action	Location of the MTR Reactor cooling tower. Contained chromates for corrosion inhibition up to 1971. Water may have splashed out of the tower onto ground. The tower has been torn down.	chromate	HW

WasteSite:	TRA-40 Tunnel French Drain	TRA - 731	WasteType: Chemical	Ref: 450
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-03	No Further Action	TRA-40 is the site of a 45-foot concrete lined trench containing piping for demineralizer regenerant solutions. A portion of the trench was unlined prior to 1989. Releases prior to 1984 would have involved nonhazardous substances. Subsequently, the system transferred sulfuric acid and sodium hydroxide. There are no documented releases from the site and an inspection performed 1992 indicated the system to be in a well maintained condition. Had a leak occurred, approx. equal volumes of acid and base would have been released. As no source exists at the site, all pathways are considered incomplete.	demineralizer regenerant solutions sulfuric acid sodium hydroxide	HW

WasteSite:	TRA-41 French Drain	TRA - 653	WasteType: Chemical	Ref: 539
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-13	No Further Action	The French Drain is located in the south central portion of TRA. It is still in place and operational. Process knowledge indicates volatile organic contaminants of potential concern. Sampling was conducted at the French Drain in August 1993 during a Site-wide assessment of shallow injection wells. The material sampled was a sludge with black-tarlike appearance. The analytical data indicated that this new site had probably been contaminated by the TRA-653 mechanical shop operations. The wastes suspected are solvents, fuel residues, and oily wastes. The composite sample result was sufficient to characterize the sludge material.	VOCs solvents oily residues oily wastes	HW

TRA (WAG 02) Waste Sites

WasteSite: TRA-42 Diesel Unloading Pit			TRA -	WasteType: Chemical	Ref: 539
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-13	No Further Action	The pit is located in the northeast corner of TRA. The unloading pit for No.2 diesel consists of a 4-inch flow line encased in a concrete vault. The connection has been used since the late 1950s. Over the years, the unloading operations have resulted in minor releases into the bottom of the pit. When the pit was cleaned, it was discovered that the pit had unlined soil and sand floor, not a concrete floor, as expected. Any diesel spills may have penetrated the surface soil of the pit surrounding the connection.	diesel	HW

WasteSite: TRA-43 (Unknown)			TRA -	WasteType:	Ref: NA
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-13	No Further Action			

WasteSite: TRA-56 (NSI) Acid Transfer Line			TRA - 631/64	WasteType: Chemical	Ref: 469
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-14	New Site Identification	A D&D project was completed in 1997 - the TRA-645 Cooling Tower Pump House. As part of this project a three inch carbon steel sulfuric acid transfer line was removed from the building and then cut off and capped. This line was plugged with solidified sulfuric acid. Liquid sulfuric acid was also found in the line. The waste was collected, managed, and disposed as HW due to mercury levels.	sulfuric acid mercury	De HW

TRA (WAG 02) Waste Sites

WasteSite: TRA-57 (NSI) Abandoned Buried Diesel Fuel Oil Line TRA - 727C/7			WasteType: Chemical	Ref: 469
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-14	New Site Identification	There is an abandoned buried diesel fuel oil line from Diesel Fuel Oil Tanks TRA-727C,D and TRA-775 to ETR. The line was used to transfer diesel fuel oil to three diesel engines at ETR.	diesel fuel oil	HW

WasteSite: TRA-58 (NSI) Abandoned Buried Fuel Oil Lines TRA - 727/60			WasteType: Chemical	Ref: 468
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-14	New Site Identification	Abandoned buried fuel oil lines (four) go from Bunker Fuel oil Tanks TRA-727 A&B to TRA-609 (Steam Plant). These lines were used to transfer #5 fuel oil from the tanks to the pumps in the old steam plant. The pumps and tanks are empty.	No. 5 fuel oil	HW

WasteSite: TRA-59 (NSI) Abandoned Buried Acid Line TRA - 631/67			WasteType: Chemical	Ref: 467
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-14	New Site Identification	A buried acid line goes from TRA-631 (Acid and Caustic Pump House) to TRA-671 (ATR Secondary Pump hose). Both pump houses are operational. This line was used to transfer acid from the bulk acid tanks to the systems in the ATR Secondary Coolant systems. The acid is suspected to contain mercury. This line was installed during ATR construction but has not been used since 1992.	acid mercury	HW

TRA (WAG 02) Waste Sites

WasteSite: TRA-614 Oil Storage North			TRA - 628	WasteType: Chemical	Ref: 451
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
2-03	No Further Action	This site consists of an earthen berm where small quantities of oil may have been disposed. It was excavated.	oil		HW

WasteSite: TRA-619 TRA PCB Spill			TRA - 619	WasteType: Chemical	Ref: 539
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
2-04	No Further Action	PCB Spill at TRA-619.	PCBs		HW

WasteSite: TRA-626 PCB Spill			TRA - 626	WasteType: Chemical	Ref: 454
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
2-04	No Further Action	This is the site of a PCB transformer spill. It was excavated and backfilled in 1990. Levels are below the 25ppm cleanup level established under TSCA.	PCB		HW

TRA (WAG 02) Waste Sites

WasteSite: TRA-627 Number 5 Oil Spill			TRA - 670	WasteType: Chemical	Ref: 454
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
2-04	No Further Action	This is a site of oil stained soils at an oil transfer pump house (TRA-670). Sand was used to absorb the oil. The sand was then transported to the CFA landfill.	No. 5 fuel oil polycyclic aromatic hydrocarbon (PAH)		HW
WasteSite: TRA-653 PCB Spill			TRA - 653	WasteType: Chemical	Ref: 454
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
2-04	No Further Action	This is the site of a PCB transformer spill. It was excavated and backfilled in 1990. Levels are below the 25ppm cleanup level established under TSCA.	PCB		HW
WasteSite: TRA-670 Petroleum Product Spill			TRA -	WasteType: Chemical	Ref: 454
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
2-04	No Further Action	This is the site of surficial oil staining at the former location of two 500 gallon above ground waste oil storage tanks. The tanks and stained soil were removed from the site in 1987 and the area was backfilled with clean soil.	oil		HW

TRA (WAG 02) Waste Sites

WasteSite:	TRA-H Process Water Pipe Loop	TRA - 603/60	WasteType: Radiological	Ref: 455
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-05	No Further Action	Assumed to have no leaks due to integrity.		CW

WasteSite:	TRA-I Contaminated Soil	TRA - 653	WasteType: Chemical	Ref: 457
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-07	No Further Action	The soil contained chromium.	chromium	HW

WasteSite:	TRA-J Perched Water System	TRA -	WasteType: Mixed	Ref: 364
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
2-12	No Further Action/Monitoring	The Perched Water System at TRA was previously contaminated by six wastewater ponds. Currently, there are four active disposal units that receive waste effluent generated at the TRA. These are the warm waste pond which receives rad-contaminated wastewater, the cold waste pond which receives reactor cooling water with no rad activity, the chemical waste pond which is used for disposal of wastewater from ion exchange units and water softeners, and the sanitary waste pond. Studies have identified VOCs, other organics, metals, other inorganics, and radionuclides but are considered no concern. No Further Action was decided in December 1992. Five year review occurred in January of 1997.		HW

CW

TRA (WAG 02) Waste Sites

WasteSite: TRA-J Perched Water System			TRA -	WasteType: Mixed	Ref: 364
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
2-13	No Further Action/Mon itoring	Action completed with routine monitoring ongoing.			CW HW

WasteSite: TRA-K (Unknown)			TRA -	WasteType:	Ref: NA
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
2-13	No Further Action				

WasteSite: TRA-L (Unknown)			TRA -	WasteType:	Ref: NA
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
2-13	No Further Action				

INTEC (WAG 03) Waste Sites

WasteSite: CPP-01 Concrete Settling Basin, Vault, Dry Wells	CPP - 603	WasteType: Mixed	Ref: 538
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-09	RI/FS	At CPP-603. Concrete settling basin, vaults and dry wells used for the discharge of radioactively contaminated fuel storage basin water. The unit is no longer in use and is scheduled to be determined.		CW
3-13	RI/FS	Group3: Other Surface Soil Sites.	Americium-241, Cesium-137, Cobalt-60 Europium-152,-154 Plutonium-238,-239/240,-241 Strontium-90, Uranium-235 Mercury, Lead, Chromium	CW HW

WasteSite: CPP-02 French Drain West of CPP-603	CPP - 603	WasteType: Mixed	Ref: 522
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-09	RI/FS	French drain used in the 1960s to dispose of basin water. The discharged water was radiologically contaminated and contained nitrates and chlorides. The drain has been removed, packaged, and disposed of. The site is now under the graphite Fuel Storage Building.	nitrates chlorides	CW HW
3-13	RI/FS	Group2: Soils Under Buildings and Structures	Americium-241, Cesium-137, Cobalt-60 Iodine-129, Neptunium-237, Plutonium-228,-239/240 Pu-241, Strontium-90, Technetium-99, Tritium Uranium-235, Mercury Arsenic, Chromium	CW HW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-03 Temporary Storage Area			CPP - 603	WasteType: Radiological	Ref: 521
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-09	RI/FS	The area was used to store old and abandoned equipment most of which was radiologically contaminated. The storage area was decommissioned in the late 1970s and the buried material taken to RWMC. Some contaminated soil was removed.		CW
3-13	RI/FS	Group3: Other Surface Soil Sites.	Americium-241, Cesium-137, Cobalt-60 Europium-152,-154 Plutonium-238,-239/240,-241 Strontium-90, Uranium-235 Mercury, Lead, Chromium	CW HW

WasteSite: CPP-04 Contaminated Soil Around Settling Tank			CPP - 603	WasteType: Mixed	Ref: 520
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-09	RI/FS	In May 1953 soil around the settling tank was found to be radiologically contaminated. The soil was removed. No records exist.		CW
3-13	RI/FS	Group3: Other Surface Soil Sites.	Americium-241, Cesium-137, Cobalt-60 Europium-152,-154 Plutonium-238,-239/240,-241 Strontium-90, Uranium-235 Mercury, Lead, Chromium	CW HW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-05 Contaminated Soil Around Settling Basin	CPP - 603	WasteType: Mixed	Ref: 519
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-09	RI/FS	In September 1954, the ground surface near the settling basin was found to be radiologically contaminated. The contaminated soil was removed. No records exist.		CW

3-13	RI/FS	Group3: Other Surface Soil Sites.	Americium-241, Cesium-137, Cobalt-60 Europium-152,-154 Plutonium-238,-239/240,-241 Strontium-90, Uranium-235 Mercury, Lead, Chromium	CW HW
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WasteSite: CPP-06 Trench E of Fuel Storage Basins	CPP - 603	WasteType: Radiological	Ref: 518
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-09	No Further Action	In the 1960s, a trench was used for the discharge of basin water while the basin was having maintenance conducted. The basin water was radioactively contaminated. Contaminated soil was left in place.		CW

WasteSite: CPP-07 Soil Contamination	CPP - 642	WasteType: Radiological	Ref: 486
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-02	No Further Action	In September 1972, steam condensing from a vent line of the basin waste collection tank radiologically contaminated the soil. The contamination was removed. No records exist.		CW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-08 Basin Filter System Line Failure			CPP - 603	WasteType: Mixed	Ref: 517
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-09	RI/FS	East of CPP-603. Underground line from basin system failed in April 1973. Basin water leaked to the soil. Radioactive contaminated soil was left in place.		CW

3-13	RI/FS	Group3: Other Surface Soil Sites.	Americium-241, Cesium-137, Cobalt-60 Europium-152,-154 Plutonium-238,-239/240,-241 Strontium-90, Uranium-235 Mercury, Lead, Chromium	CW HW
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WasteSite: CPP-09 Soil Contamination Near the CPP-603 Basin			CPP - 603	WasteType: Mixed	Ref: 516
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-09	RI/FS	NorthEast Corner of CPP-603 South Basin. In July 1975, radioactively contaminated soil was encountered. The surface soil was removed but some contamination may still be present. No records exist.		CW

3-13	RI/FS	Group3: Other Surface Soil Sites.	Americium-241, Cesium-137, Cobalt-60 Europium-152,-154 Plutonium-238,-239/240,-241 Strontium-90, Uranium-235 Mercury, Lead, Chromium	CW HW
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INTEC (WAG 03) Waste Sites

WasteSite: CPP-10 Plastic Pipeline Break			CPP - 603	WasteType: Mixed	Ref: 515
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-09	RI/FS	East of CPP-603. In December 1976, radioactively contaminated basin water drained onto the floor and then onto the soil. Contaminated soil was removed. No records exist.		CW

3-13	RI/FS	Group3: Other Surface Soil Sites.	Americium-241, Cesium-137, Cobalt-60 Europium-152,-154 Plutonium-238,-239/240,-241 Strontium-90, Uranium-235 Mercury, Lead, Chromium	CW HW
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WasteSite: CPP-11 Sludge and Water Release			CPP - 603	WasteType: Mixed	Ref: 514
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-09	RI/FS	East of CPP-603. In February 1978, waste containing sludge and basin water was released to the ground during basin cleanup activities. The radioactively contaminated soil was cleaned up. No laboratory records exist.	sludge	CW

basin water

3-13	RI/FS	Group3: Other Surface Soil Sites.	Americium-241, Cesium-137, Cobalt-60 Europium-152,-154 Plutonium-238,-239/240,-241 Strontium-90, Uranium-235 Mercury, Lead, Chromium	CW HW
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INTEC (WAG 03) Waste Sites

WasteSite: CPP-12 Contaminated Paint Chips and Pad CPP - 603			WasteType: Radiological	Ref: 485
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-02	No Further Action	In May 1984, radioactively contaminated paint chips from a painted concrete equipment storage pad were found. The pad chips and any contaminated soil under the pad have been removed.		CW
WasteSite: CPP-13 Pressurization of the Solid Storage Cyclone CPP - 633			WasteType: Mixed	Ref: 540
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-08	RI/FS	This site is the result of a 1976 release of solid calcined radioactive waste to the soil on the berm above the storage bin sets containing the same material. To remediate the facility, the associated berm would have to be removed.	solid calcimined radioactive waste	CW
3-08A	RI/FS	NE of CPP-633.	solid calcined radioactive waste	CW
3-13	RI/FS	Group3: Other Surface Soil Sites.	Americium-241, Cesium-137, Cobalt-60 Europium-152,-154 Plutonium-238,-239/240,-241 Strontium-90, Uranium-235 Mercury, Lead, Chromium	CW HW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-14 Sewage Treatment Plant			CPP - 664	WasteType: Mixed	Ref: 500
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-05	RI/FS	From 1951 to 1982, the sewage treatment plant served most of the buildings at CPP. Radioactive decontamination showers drained into this plant and then to an outfall pit. The plant was decommissioned in 1982 and the sludge from the drying beds was sent to RWMC. The drain tiles and outfall lines were left in place.			CW
					De
3-13	RI/FS	Group3: Other Surface Soil Sites.	Americium-241, Cesium-137, Cobalt-60 Europium-152,-154 Plutonium-238,-239/240,-241 Strontium-90, Uranium-235 Mercury, Lead, Chromium		CW HW

WasteSite: CPP-15 Solvent Burner East of CPP-605			CPP - 605	WasteType: Mixed	Ref: 540
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-08	RI/FS	This site is the location of the former solvent burner where waste solvents, primarily kerosene and tributyl phosphate, containing small quantities of plutonium were incinerated. Releases of waste solvents were reported to have occurred both inside and outside the building, and from an above ground flange located over the feed tank. From 1983 through 1985, the solvent burner and feed tank were completely dismantled and removed. No source remains at this site.	kerosene		Di
			tributyl phosphate plutonium		
3-14	RI/FS	Group1: Tank Farm Soils. RI/FS in future.	Cs-137, Sr-90 H-3, Eu-154, U-235 I-129, Pu-238, Pu-239/240 Hg nitrates		CW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-16 Contaminated Soil from Line Leak	CPP - PEW	WasteType: Radiological	Ref: 506
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-07	No Further Action	In January 1976, during the transfer of solution from tank WM-181 to the PEW evaporator, a leak occurred. Soil became radioactively contaminated and was left in place.		CW

WasteSite: CPP-17 Soil Storage Area S of Peach Bottom	CPP - 603	WasteType: Radiological	Ref: 513
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-09	No Further Action	South of Peach Bottom Fuel Storage Area. About 1200 yd ³ of ²³⁵U soil is stored east of CPP-603. This soil was excavated during construction of the CPP-603 fuel storage basin in 1955 and was radioactively contaminated from basin water disposed to the ground.		CW

WasteSite: CPP-18 Gas Storage Building	CPP - 668	WasteType: Radiological	Ref: 484
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-02	No Further Action	Building used until the mid 1970s to store radioactively contaminated gas cylinders. The cylinders were cleaned up and shipped off site. Any contamination has been cleaned. No records of this. CPP-668 has since been built on this site.		CW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-19 CPP-603 to CPP-603 Line Leak	CPP - 603	WasteType: Mixed	Ref: 512
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-09	RI/FS	On March 9, 1978, a leak developed in the waste transfer line between CPP-603 and WL-102 (CPP-604). Radioactively contaminated liquid leaked from the underground line to the soil. Some contaminated soil was removed.		CW
3-13	RI/FS	Group3: Other Surface Soil Sites.	Americium-241, Cesium-137, Cobalt-60 Europium-152,-154 Plutonium-238,-239/240,-241 Strontium-90, Uranium-235 Mercury, Lead, Chromium	CW HW

WasteSite: CPP-20 Radioactive Waste Unloading Area	CPP - 604	WasteType: Mixed	Ref: 505
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-07	RI/FS	Occasional spills of radioactive liquid contaminants occurred during the unloading process. The spills were cleaned as they occurred. The entire site was excavated to 40 feet and backfilled with clean materials as a result of a Facility Upgrade project. Surveys in 1991 showed no radiological reading above background.		CW
3-08A	RI/FS	See 3-14 Comprehensive.		CW HW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-20 Radioactive Waste Unloading Area			CPP - 604	WasteType: Mixed	Ref: 505
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-14	RI/FS	Group1: Tank Farm Soils. RI/FS in future.	Cs-137, Sr-90 H-3, Eu-154, U-235 I-129, Pu-238, Pu-239/240 Hg nitrates		CW
WasteSite: CPP-21 Solid Waste Storage Bin			CPP - 601	WasteType: Radiological	Ref: 483
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-02	No Further Action	Solid waste including paper rags and contaminated metal was collected in a waste bin and then sent to RWMC. The radioactive was has since been removed. The area around the bin was also contaminated but has since been cleaned up.			CW
WasteSite: CPP-22 Particulate Air Release South of CPP-603			CPP - 603	WasteType: Radiological	Ref: 511
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-09	No Further Action	In October 1958, cell ventilation filters failed and a radioactive particulate release occurred. Land adjacent to the building was contaminated. The contamination was cleaned up.			CW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-23 Injection Well (MAH-FE-304)			CPP - 666	WasteType: Mixed	Ref: 497
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-02	RI/FS	Injection well used for the disposal of cooling water and condensate. The waste discharge in the well contained minor quantities of radioactivity. In March 1981, the discharge of mercury (as mercuric nitrate) to the well exceeded EPA toxicity. No evidence of mercury migration within the aquifer has been found. Since 1984 the well was used for emergency use only. It was closed in 1989.	mercury		HW
			LLRW		CW
3-14	RI/FS	Group5: Snake River Plain Aquifer.	Tritium, Strontium-90		CW
			Iodine-129		HW
			Neptunium-237		
			Chromium		
			Mercury		
WasteSite: CPP-24 Tank Farm Area Bucket Spill			CPP -	WasteType: Radiological	Ref: 505
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-07	No Further Action	Approx. 1 gallon of radioactively contaminated solution was spilled from a bucket onto the ground while working on tank WM-180 in 1954. The spill contaminated an area of approximately 3x6 ft according to the incident report. Maximum radiation both horizontally and vertically was 400 mr/hr beta-gamma.	beta-gamma		CW
WasteSite: CPP-25 Contaminated Soil in Tank Farm Area			CPP - 604	WasteType: Mixed	Ref: 538
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-07	RI/FS	See 3-14 Comprehensive.			CW
					HW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-25 Contaminated Soil in Tank Farm Area CPP - 604			WasteType: Mixed	Ref: 538
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-14	RI/FS	Group1: Tank Farm Soils. RI/FS in future.	Cs-137, Sr-90 H-3, Eu-154, U-235 I-129, Pu-238, Pu-239/240 Hg nitrates	CW
WasteSite: CPP-26 Contaminated Soil in Tank Area Steam Flush CPP - 635			WasteType: Mixed	Ref: 505
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-07	RI/FS	The release at this site consists of two separate areas: 1) the area outside the Tank Farm that was contaminated by a steam release and 2) the area within the Tank Farm near the release that was contaminated by both a steam and liquid release. The area outside the Tank Farm (contaminated solely by the steam release) is no longer contaminated due to radioactive decay. This conclusion is based upon 1990-1991 results. The concentration of contaminants detected within the Tank Farm (Cs-137) is significantly higher than would be expected from the 1964 release and therefore may not be related to the release being investigated.	Cs-137	CW
3-08A	RI/FS	In Tank Farm Area from Steam Flushing Operation. CPP-26 is located east of building CPP-635 spreading in a fan shape to the northeast. The release occurred on May 10, 1964 during the steam flushing /decontaminating of three transfer lines.	HLW, heavy metals, chloride Pu-242 Ru-103,106 Ce-144 Cs-134, Cs-137 Cs-137, Sr-90	CW
3-14	RI/FS	Group1: Tank Farm Soils. RI/FS in future.	H-3, Eu-154, U-235 I-129, Pu-238, Pu-239/240 Hg nitrates	CW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-27 Contaminated Soil in Tank Area			CPP - 633	WasteType: Mixed	Ref: 540
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-08	RI/FS	Result of release of liquid condensate through a corroded carbon steel pressure relief line running from the waste storage tanks to the ICPP stack. The contaminated soil was discovered in 1974 and in 1983. During both instances, the majority of contaminated soil was excavated and removed. Contamination is still detected.			CW
3-08A	RI/FS	See 3-14 Comprehensive.			CW HW
3-14	RI/FS	Group1: Tank Farm Soils. RI/FS in future.	Cs-137, Sr-90 H-3, Eu-154, U-235 I-129, Pu-238, Pu-239/240 Hg nitrates		CW
WasteSite: CPP-28 Contaminated Soil in the Tank Area			CPP - WM-18	WasteType: Mixed	Ref: 505
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-07	RI/FS	South of WM-181 by valve box A-6.			CW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-28 Contaminated Soil in the Tank Area	CPP - WM-18	WasteType: Mixed	Ref: 505
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-08A	RI/FS	In Tank Farm Area South of WM-181 by valve box A-2. On October 1, 1974, during the installation of a cathodic protection electrode in the tank farm area, highly radioactive contaminated soil was discovered.	HLW (acidic waste), heavy metals, fluoride Sr-90, Eu-154, Eu-155 Ru-106 Ce-144 Cs-134, Cs-137 Cs-137, Sr-90	CW
3-14	RI/FS	Group1: Tank Farm Soils. RI/FS in future.	H-3, Eu-154, U-235 I-129, Pu-238, Pu-239/240 Hg nitrates	CW

WasteSite: CPP-29 Contaminated Soil	CPP - 693	WasteType: Radiological	Ref: 540
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-08	No Further Action	West of CPP-693 and East of the Dry Fuel Storage Area. This site is the result of a release of small quantities of radioactive liquid at the base of the original ICPP stack in 1974. Since the release, the Main Stack Refurbishment Project completely excavated the site.		CW

WasteSite: CPP-30 Contaminated Soil in Tank Farm Area	CPP - B-9	WasteType: Radiological	Ref: 538
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-07	No Further Action	Near Valve Box B-9.		CW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-31 Contaminated Soil in Tank Farm			CPP - WM-18	WasteType: Mixed	Ref: 505
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-07	RI/FS	Southwest of tank WM-183.	cesium-137	CW
3-08A	RI/FS	In Tank Farm area South of Tank WM-183 near valve boxes A-5 and A-6. While drilling an observation well on Sept. 18, 1975 contaminated soil was brought to the surface. Soil analysis suggests that the waste originated from processing aluminum-clad thermal reactor fuel.	HLW (acidic waste) Cs-134, Cs-137 Zr-96, EU-154, SR-90, Co-60 Pu-238, Pu-239, Pu-240, Pu-241, Pu-242 nitric acid, arsenic, barium, nickel, mercury	CW
3-14	RI/FS	Group1: Tank Farm Soils. RI/FS in future.	Cs-137, Sr-90 H-3, Eu-154, U-235 I-129, Pu-238, Pu-239/240 Hg nitrates	CW

WasteSite: CPP-32 Contaminated Soil			CPP -	WasteType: Mixed	Ref: 528
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-14	RI/FS	Group1: Tank Farm Soils. RI/FS in future.	Cs-137, Sr-90 H-3, Eu-154, U-235 I-129, Pu-238, Pu-239/240 Hg nitrates	CW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-32E Contaminated Soil in Tank Farm Area CPP -			WasteType: Mixed	Ref: 505
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-07	RI/FS	Southwest and Northwest of Valve Box B-4. In December 1976 soil contamination was identified southwest of valve box B-4. The contaminated material appeared to have originated from the stand pipe (air vent tube and view port pipe) that extended out of the valve box.	Cs-137 acids trace VOCs	CW
3-13	RI/FS	See CPP-32 (OU 3-14)		CW HW

WasteSite: CPP-32W Contaminated Soil in Tank Farm Area CPP -			WasteType: Radiological	Ref: 505
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-07	RI/FS	Southwest and Northwest of Valve Box B-4. The area of contaminated soil was discovered in December 1976. The radiation measured as high as 2 R/hr beta-gamma and extended to a depth of 12 inches. Due to the size of valve box B-4, only the general location of this site is known. Surface radiation readings do not indicate contamination above background in the area.	beta-gamma	CW
3-13	RI/FS	See CPP-32 (OU 3-14)		CW HW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-33 Contaminated Soil in Tank Farm Area			CPP - 604	WasteType: Radiological	Ref: 501
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-06	RI/FS	This is the site of a High Level Liquid Waste (HLLW) subsurface release from a leak of the Tank Farm transfer system. The leak was discovered in 1974, but contaminated soil was again encountered in 1983. Soil was removed and disposed of in 1974 and again in 1984. It was then backfilled. Contamination still remains. It was recommended that this site be included in the actions taken for CPP-27.			CW
3-08	RI/FS	Near WL-102 NE of CPP-604. During the summer of 1983, contaminated soil was encountered when work began to replace tank WL-102. Soil >30 mR/hr was removed and sent to RWMC. Soil <30mR/hr was stored east of CPP-603 until disposed in a trench at CPP. Some contaminated soil was left in place. Liquid spilled would have contained nitric acid and radionuclides.	nitric acid		HW
			radionuclides		CW
3-14	RI/FS	Group1: Tank Farm Soils. RI/FS in future.	Cs-137, Sr-90		CW
			H-3, Eu-154, U-235		
			I-129, Pu-238, Pu-239/240		
			Hg		
			nitrates		
WasteSite: CPP-34 Soil Storage Area			CPP -	WasteType: Mixed	Ref: 504
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-06A	RI/FS	CPP-34 is comprised of three trenches which were excavated to dispose LLRW contaminated soil found during replacement of tank WL-102.	cesium-137		CW
			strontium-90		

INTEC (WAG 03) Waste Sites

WasteSite: CPP-34 Soil Storage Area			CPP -	WasteType: Mixed	Ref: 504
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-13	RI/FS	Group3: Other Surface Soil Sites.	Americium-241, Cesium-137, Cobalt-60		CW
			Europium-152,-154		HW
			Plutonium-238,-239/240,-241		
			Strontium-90, Uranium-235		
			Mercury, Lead, Chromium		
WasteSite: CPP-35 CPP-663 Decontamination Spill			CPP - 663	WasteType: Mixed	Ref: 540
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-08	RI/FS	This site is the result of a 1972 release of decontamination solution to the atmosphere through an air transport system.	decontamination solution		HW
					CW
3-08A	RI/FS	This site is the result of a 1972 release of decontamination solution to the atmosphere through an air transport system.			CW
					HW
3-13	RI/FS	Group3: Other Surface Soil Sites.	Americium-241, Cesium-137, Cobalt-60		CW
			Europium-152,-154		HW
			Plutonium-238,-239/240,-241		
			Strontium-90, Uranium-235		
			Mercury, Lead, Chromium		

INTEC (WAG 03) Waste Sites

WasteSite: CPP-36 Transfer Line Leak from CPP-633 to WL-102 CPP - 633			WasteType: Mixed	Ref: 540
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-08	RI/FS	The result of three different discoveries of contaminated soil and one documented liquid release that occurred in 1974. The sources are unknown. There is significant radiation at this site.		CW
3-08A	RI/FS	The result of three different discoveries of contaminated soil and one documented liquid release that occurred in 1974. The sources are unknown. There is significant radiation at this site.		CW
				HW
3-13	RI/FS	Group3: Other Surface Soil Sites.	Americium-241, Cesium-137, Cobalt-60 Europium-152,-154 Plutonium-238,-239/240,-241 Strontium-90, Uranium-235 Mercury, Lead, Chromium	CW HW
WasteSite: CPP-37 Gravel Pits #1 and #2 CPP -			WasteType: Mixed	Ref: 497
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-02	OtherProgram	Two gravel pits used for the discharge, disposal and decontamination area of misc. materials. Sanitary wastes, service waste, construction debris and possible chemical wastes were discharged here. The construction debris was radioactively contaminated. Will be included in RI/FS.	mercury Ag, Ba, Pb methylene chloride Am-241, Cs-137 U-235	CW HW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-38 Friable Transite			CPP -	WasteType: Mixed	Ref: 499
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-04	OtherProgram	The outside walls and roofs on 9 CPP buildings (601,602,603,604,605,606,640,644,648) have friable transite (40% Asbestos). One building (CPP-603) has radioactive hot spots on the transite. This building will require future remediation; however, no further action is the current status due to funding.	transite (asbestos)		HW
					CW

WasteSite: CPP-39 CPP HF Storage tank (YDB-105 and Dry Wel			CPP -	WasteType: Radiological	Ref: 538
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-13	No Further Action				CW

WasteSite: CPP-40 Lime Pit at the Base of Berm/French Drain			CPP - 601	WasteType: Mixed	Ref: 502
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-06	No Further Action	Old lime pit. 1500 gallons of sludge were removed in 1990. Subsequent sampling shows no remaining significant concentrations of contamination.	lime		HW
					CW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-41 Fire training Pits Between CPP-602/ CPP-603 CPP - 602/30			WasteType: Chemical	Ref: 487
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-02	No Further Action	Two small depressions were used to burn organic material for fire training. The area has since been covered with CPP-663 and CPP-666.		HW

WasteSite: CPP-42 Drainage Ditch			CPP - 637	WasteType: Chemical	Ref: 524
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-10	No Further Action	West of CPP-637 and was originally designed to handle precipitation runoff. It is suspected that lab wastes may have been disposed and released to the surface soil at this site.	barium fluoride nitrate arsenic	HW

WasteSite: CPP-43 Grease Pit South of CPP-637			CPP - 637	WasteType: Chemical	Ref: 536
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3/NA	No Further Action	The grease pit was used for the disposal of an unknown quantity of oil and grease. The grease pit was filled in when the unirradiated fuel storage building upgrade (CPP-651) was completed in 1975.	oil grease	HW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-44 Grease Pit South of CPP-608			CPP - 608	WasteType: Mixed	Ref: 524
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-10	RI/FS	This site was in service during a four year period from 1950 until 1953 when CFA construction was completed. The operating history of the grease pit is poorly documented. Construction vehicle maintenance activities were conducted here. The pit is currently covered by 2.5 ft of fill.	acids, solvents		HW
			Cadmium, chromium, lead, mercury, nickel		CW
			1,1,1-Trichloroethane		
			4-methyl-4-hydroxy-2-pentanone		
			oil, polycyclic aromatic hydrocarbons		
3-13	RI/FS	Group3: Other Surface Soil Sites.	Americium-241, Cesium-137, Cobalt-60		CW
			Europium-152,-154		HW
			Plutonium-238,-239/240,-241		
			Strontium-90, Uranium-235		
			Mercury, Lead, Chromium		

WasteSite: CPP-45 CPP-621 Chemical Storage Area Spills			CPP - 621	WasteType: Chemical	Ref: 525
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-11	No Further Action				HW

WasteSite: CPP-46 Courtyard Pilot Plant Release at CPP-637			CPP - 637	WasteType: Chemical	Ref: 524
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-10	No Further Action	This site was a release of simulated zirconium fluoride waste which was being pumped from a make-up vessel in the CPP-620 High Bay Lab to the east storage tank. The release was a one-time occurrence, with a total of 450 gallons of waste being released on November 21, 1978.	zirconium fluoride		HW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-47 Pilot Plant Storage Area			CPP - 620	WasteType: Chemical	Ref: 503
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-06	No Further Action	This area was used to store hydrofluoric acid for use in ICPP Pilot Plant from 1965 to 1986. Sometime in 1984, a small spill (2 gallons) was known to have occurred. All barrels, pallets, etc. have been removed from this site.	hydrofluoric acid fluoride	HW

WasteSite: CPP-48 French Drain South of CPP-633			CPP - 633	WasteType: Radiological	Ref: 538
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-13	No Further Action			CW

WasteSite: CPP-49 PCB Transformer Yard			CPP - 705	WasteType: Chemical	Ref: 480
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-01	No Further Action	CPP-49 is the site of a transformer yard that contained three PCB containing transformers. There is evidence of oil staining on concrete pads. Sealing activities on the pad have occurred - encapsulation of the pad within a larger resultant concrete pad structure.	PCBs transformer oil	HW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-50 PCB Transformer Yard			CPP - 731	WasteType: Chemical	Ref: 480
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-01	No Further Action	The ICPP XFR-YDC-3 transformer was originally located in CPP-731. The transformer contained 231 gallons of oil at a concentration of 400ppm PCBs. Leakage was noted in 1985. It was removed in 1985 and shipped to a commercial disposal facility.	oil PCBs	HW

WasteSite: CPP-51 PCB-Staging Area			CPP - 660	WasteType: Chemical	Ref: 480
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-01	No Further Action	During 1985 the area was used as a PCB-Transformer and contaminated soil debris and concrete staging area from the ICPP Utilities Replacement and Expansion Project. Two transformers leaked during 1985 onto plastic sheeting. Sampling occurred in 1990.	oil PCBs	HW

WasteSite: CPP-52 Pickling Shed East of CPP-631			CPP - 631	WasteType: Mixed	Ref: 535
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3/NA	No Further Action	During original ICPP construction, a pickling shed was used to treat piping and other structural materials with mineral acids. Spent solutions were disposed of to the liquid waste storage tanks. This temporary structure was torn down around 1954. There are no records of any spills or leakage.	mineral acids spent solutions	CW HW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-53 Paint and Paint Solvent Area			CPP - 697	WasteType: Chemical	Ref: 495
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-02	No Further Action	During construction of the FAST building, a painting subcontractor stored paints and paint solvents on pallets south of CPP-697. Some of these 30-40 drums may have leaked to the ground. In 1983, the drums were shipped to a commercial disposal facility. A characterization of the area was conducted in 1986 and indicated no contamination present.	paints		HW
			paint solvents		
WasteSite: CPP-54 Drum Storage Area West of CPP-660			CPP - 660	WasteType: Chemical	Ref: 494
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-02	No Further Action	In 1985, 30-40 drums of organic solvent and used oil were stored in drums on pallets. Several of these drums may have leaked. In August 1985, the drums were shipped to a commercial disposal facility.	organic solvent		HW
			oil		
WasteSite: CPP-55 Mercury Contaminated Area			CPP - T-15	WasteType: Mixed	Ref: 493
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-02	No Further Action	South of CPP T-15. During a baseline study at the CPP in 1984, printers/carpenters were observed discharging used paint solvents to the soil. The August 1985, seven soil sample analyses indicated mercury level ranging from 48 to 236 ppb. Some soil has been removed.	mercury		HW
3-08A	RI/FS	Well 55-06 inside CPP-55. (Strontium Contaminated in Perched Water) is located approx. 20 feet from the southwest corner of building T-15, inside the site boundary for LDU CPP-55. During the drilling of a deep borehole, as part of the characterization of LDU CPP-55 under RCRA-driven Consent Order and Compliance Agreement (COCA) radiological contamination was discovered at a depth of 68 feet below ground surface.	strontium-90		CW
			tritium		

INTEC (WAG 03) Waste Sites

WasteSite: CPP-55 Mercury Contaminated Area			CPP - T-15	WasteType: Mixed	Ref: 493
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-13	RI/FS	Group3: Other Surface Soil Sites.	Americium-241, Cesium-137, Cobalt-60		CW
			Europium-152,-154		HW
			Plutonium-238,-239/240,-241		
			Strontium-90, Uranium-235		
			Mercury, Lead, Chromium		
WasteSite: CPP-56 Nitric Acid Release South of CPP-734			CPP - 734	WasteType: Chemical	Ref: 524
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-10	No Further Action	This site is a nitric acid release which occurred just south of CPP-734. In February 1968, waste from the west side non-radioactive liquid waste holdup tank (WL-103) was being pumped to the Westside Monitoring Station (CPP-734) when the line developed a leak.	nitric acid		HW
WasteSite: CPP-57 Sulfuric Acid Spill East of CPP-606			CPP - 606	WasteType: Chemical	Ref: 492
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-02	No Further Action	In October 1984, a tank overfilled and 50 gal of sulfuric acid spilled. In June 1985, the tank developed a leak and 4500 gal of acid leaked to the ground. The soil was removed, neutralized and packaged. Cleanup of the area has been completed and a new tank was installed.	sulfuric acid		HW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-58 Contaminated Soil			CPP -	WasteType: Mixed	Ref: 528
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-14	RI/FS	Group1: Tank Farm Soils. RI/FS in future.	Cs-137, Sr-90 H-3, Eu-154, U-235 I-129, Pu-238, Pu-239/240 Hg nitrates	CW

WasteSite: CPP-58E CPP PEW Evaporator Overhead Pipeline S			CPP -	WasteType: Mixed	Ref: 538
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-08	RI/FS	Refer to CPP-58 OU 3-14.		CW

3-11	RI/FS	Refer to CPP-58 OU 3-14.		CW
				HW

WasteSite: CPP-58W CPP PEW Evaporator Overhead Pipeline S			CPP -	WasteType: Mixed	Ref: 538
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-08	RI/FS	Refer to CPP-58 OU 3-14.		CW
				HW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-58W CPP PEW Evaporator Overhead Pipeline S CPP -			WasteType: Mixed	Ref: 538
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-11	RI/FS	Refer to CPP-58 OU 3-14.		CW HW

WasteSite: CPP-59 Kerosene Tank Overflow			CPP - 633	WasteType: Chemical	Ref: 497
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-02	No Further Action	In September 1983, the storage tank overflowed to the vent line outside the containment barrier. The total spilled was approx. 260 gal. Characterization activities occurred in 1990.	kerosene xylene	HW

WasteSite: CPP-60 Paint Shop at Present Location of CPP-645			CPP - 645	WasteType: Chemical	Ref: 491
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-02	No Further Action	An old paint shop existed north of CPP-637. Paint and paint solvents may have been discarded to the soil. The paint shop has been removed and CPP-645 is located over the paint shop area.	paint paint solvents	HW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-61 PCB Spill in the CPP-718 Transformer Yard CPP - 718			WasteType: Mixed	Ref: 480
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-01	No Further Action	PCB oil spill occurred between 1982 and 1985 within the CPP-718 yard. The spill occurred during the Utilities Replacement and Expansion Project. Leak was approx. 400 gallons. Clean-up occurred in 1985. PCB contaminated soil was excavated and backfilled.	oil PCBs	HW CW
WasteSite: CPP-62 Mercury Contaminated Area CPP - TB-4			WasteType: Chemical	Ref: 490
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-02	No Further Action	During a baseline study in 1984, painters/carpenters were observed discarding paint solvents to the soil at T-15. These craftsmen had also discarded solvents to the soil at TB-4. A characterization of the TB-4 area was conducted because of pending construction. Mercury levels up to 2825 ppb were encountered. A cleanup was conducted in 1985.	mercury	HW
WasteSite: CPP-63 Hexone Spill by CPP-710 CPP - 710			WasteType: Chemical	Ref: 489
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-02	No Further Action	While performing maintenance activities, employees discovered a leak on the CPP-601 hexone line. The damage to the line was caused by a construction company employee during an excavation activity. Contaminated soil was left in place.	hexone	HW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-64 Hexone Spill by CPP-660			CPP - 660	WasteType: Chemical	Ref: 488
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-02	No Further Action	A warehouse worker using a forklift to pick up hexone dropped a barrel. 55 gallons of hexone leaked to the asphalt and soil. Vermiculite was used to absorb some of the hexone. This vermiculite and contaminated snow was pushed across the road until personnel could clean it up. The vermiculite was barreled and disposed of.	hexone vermiculite	HW

WasteSite: CPP-65 Sewage Plant Lagoons			CPP -	WasteType: Radiological	Ref: 482
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-02	OtherProgram	Sewage Treatment plant with four lagoons. No known radioactive or hazardous contamination has entered the unit.		CW

WasteSite: CPP-66 CFSGP Fly Ash Pit			CPP -	WasteType: Chemical	Ref: 481
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-02	OtherProgram	Coal Fired Steam Generation Fly Ash Pit (East).		HW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-67 ICPP Percolation Ponds 1&2			CPP - 603	WasteType: Mixed	Ref: 498
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-03	RI/FS	This site is two unlined percolation ponds. They began receiving flow in 1984 and 1985. Soil sample analysis has identified radioactive, organic and inorganic contaminants in the ponds sediments. The ponds underwent RCRA Closure Process (1994) and determined that risk-based levels for organic and inorganic contaminants were not exceeded. Radioactivity was not assessed.	uranium-235		HW
			strontium-90		CW
			cesium-137		
3-13	RI/FS	Group3: Other Surface Soil Sites.	Americium-241, Cesium-137, Cobalt-60		CW
			Europium-152,-154		HW
			Plutonium-238,-239/240,-241		
			Strontium-90, Uranium-235		
			Mercury, Lead, Chromium		
WasteSite: CPP-68 Abandoned Gasoline Tank CPP-VES-UTI-65			CPP - 606	WasteType: Chemical	Ref: 496
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-02	No Further Action	The tank was taken out of service in June 1983, and removed and disposed of in 1986. Soil samples were collected and analyzed.	gasoline		HW
WasteSite: CPP-69 Abandoned Liquid Radioactive Waste Tank			CPP -	WasteType: Radiological	Ref: 510
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-09	RI/FS	Storage Tank CPP VES-SFE-20 South East of CPP-603. Tank was taken out of service March 1977. Tank contains about 32 gal. of low level radioactive liquid waste.	LLRW		CW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-69 Abandoned Liquid Radioactive Waste Tank	CPP -	WasteType: Radiological	Ref: 510
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-13	RI/FS	Group7: SFE-20 Hot Waste Tank System. Located within CPP-69 and consists of an abandoned radioactive liquid waste storage tank containing about 400 gal of liquid and 55 gal of sludge. The tank was removed from service in 1977. In 1976, the SFE-20 tank system was taken out of service and the inlet pipe was disconnected and capped. The pump was also removed from the pump pit and the connections capped. A preliminary investigation conducted in 1984 indicated that the tank liquid and sludge contain elevated levels of Cs-137, Cs-134, Co-60, Sr-90 and isotopes of europium, plutonium, and uranium. Previous spills within the tank vault and pump pit contained similar contaminants.	Cs-137, Cs-134, Co-60, Sr-90 isotopes of europium isotopes of plutonium uranium	CW

WasteSite: CPP-70 Septic Tank East of CPP-655	CPP - 655	WasteType: Radiological	Ref: 534
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3/NA	No Further Action	There are no records of hazardous waste entering the system.		CW

WasteSite: CPP-71 Seepage Pits West of CPP-656	CPP - 656	WasteType: Radiological	Ref: 534
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3/NA	No Further Action	There are no records of hazardous waste entering the system.		CW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-72 CPP-758 Cesspool East of CPP-651			CPP - 651	WasteType: Radiological	Ref: 533
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3/NA	No Further Action	There are no records of hazardous waste entering the system.		CW

WasteSite: CPP-73 Leaching Cesspool East of CPP T-5			CPP - T-5	WasteType: Radiological	Ref: 532
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3/NA	No Further Action	There are no records of hazardous waste entering the system.		CW

WasteSite: CPP-74 Seepage Pit West of CPP-626			CPP - 626	WasteType: Radiological	Ref: 531
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3/NA	No Further Action	Site inspections and UST inventory available to assess the site.		CW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-75 Septic Tank and Cesspool West of CPP-603 CPP - 603			WasteType: Radiological	Ref: 530
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3/NA	No Further Action	There are no records of hazardous waste entering the system.		CW

WasteSite: CPP-76 Septic Tank and Cesspool West of CPP-659 CPP - 659			WasteType: Radiological	Ref: 537
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3/NA	No Further Action	There are no records of hazardous waste entering the system.		CW

WasteSite: CPP-77 Seepage Pit and Cesspool North of CPP-662 CPP - 662			WasteType: Radiological	Ref: 529
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3/NA	No Further Action	There are no records of hazardous waste entering the system.		CW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-78 Contaminated Soil W of CPP-693	CPP - 693	WasteType: Radiological	Ref: 523
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-09	No Further Action	East of Dry Fuel Storage Area. Radioactively contaminated soil was encountered during excavation for a trench by the Dry Fuel storage area (May 1987). The trench was filled in with contaminated soil and the area was roped off and posted.		CW

WasteSite: CPP-79 Contaminated Soil	CPP -	WasteType: Mixed	Ref: 505
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-07	RI/FS	Tank Farm Release Near Valve Box A-2. The contamination detected at this site appears to be from two separate releases. LLRW is of concern.		CW

3-08A	RI/FS	In Tank Farm Area west of valve box A-2 southeast of tank WM-181. During two transfers of decontamination solution in 1986, from tank NCD-123 to Process Equipment Waste (PEW) tank WL-102, the loss of a total of approximately 2500 gallons was reported.	decontamination solution	CW
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Iodine-129 HW

Uranium-233,-234,-235,-238
fluoride

organics, heavy metals

3-14	RI/FS	Group1: Tank Farm Soils. RI/FS in future.	Cs-137, Sr-90	CW
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H-3, Eu-154, U-235

I-129, Pu-238, Pu-239/240

Hg

nitrates

INTEC (WAG 03) Waste Sites

WasteSite: CPP-80 Vent Tunnel Drain Leak (VT-300) CPP - 601			WasteType: Mixed	Ref: 509
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-08A	RI/FS	On July 20, 1989 it was discovered that the 4-inch SK-1075T cast iron line that serves as a floor drain in the CPP-601 South Vent Tunnel had failed.	corrosive solutions	HW CW
3-12	RI/FS	See OU 3-13.		CW HW
3-13	RI/FS	Group2: Soils Under Buildings and Structures	Americium-241, Cesium-137, Cobalt-60 Iodine-129, Neptunium-237, Plutonium-228,-239/240 Pu-241, Strontium-90, Technetium-99, Tritium Uranium-235, Mercury Arsenic, Chromium	CW HW
WasteSite: CPP-81 Abandoned Section of CPP-637 VOG Line CPP - 637			WasteType: Mixed	Ref: 526
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-12	No Further Action	On October, 21 1986 the vessel off-gas (VOG) 3 inch VGA-100 line was plugged and then abandoned. No release occurred. During 1993, RA was conducted at this site. The line was flushed with heated nitric acid/aluminum nitrate solution.	zirconium, chromium, calcium, chloride fluoride, potassium, sodium nitrate, sulfate aluminum, boron mercury, lead, hexone tributylphosphate, AMSCO U-238, U-235, cobalt, strontium, cesium, cerium	HW CW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-82 Abandoned Line 1.5 IN.	CPP - 797	WasteType: Radiological	Ref: 538
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-12	No Further Action	The site is divided into 3 locations. Small aqueous spills due to construction activities.	LLRW	CW

WasteSite: CPP-83 Well 55-06 Rad Contamination in Perched H2	CPP -	WasteType: Mixed	Ref: 505
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-07	R/FS	Sampling results indicate that there are increasing concentrations of Sr-90 in this well. In addition, it has not been able to determine whether one or multiple water bodies are present based on the fluctuating water levels. The source of the contamination and the source for the recharge are unknown.	Sr-90	CW
3-08A	R/FS	See OU 3-13.		CW HW
3-13	R/FS	Group4: Perched Water	Iodine-129 Strontium-90, Plutonium-Total Neptunium-237 Uranium-235 Mercury	CW HW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-84		CPP -	WasteType: Chemical	Ref: 538
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-13	RI/FS	Group6: Buried gas Cylinders. Located outside the ICPP fence line, east of Lincoln Boulevard and south of the Big Lost River. The site consists of a trench where compressed gas cylinders were previously disposed.	fluoride	HW

WasteSite: CPP-85 Waste Calcining Facility Blower Corridor		CPP -	WasteType: Radiological	Ref: 538
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-13	No Further Action			CW

WasteSite: CPP-86 CPP-602 Waste Trench Sump		CPP - 602	WasteType: Radiological	Ref: 538
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-13	No Further Action			CW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-87			CPP - 604	WasteType: Mixed	Ref: 538
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-13	RI/FS	Group2: Soils Under Buildings and Structures. Contaminated Soil under the vapor off gas blower core cell in Building CPP-604.	Americium-241, Cesium-137, Cobalt-60 Iodine-129, Neptunium-237, Plutonium-228,-239/240 Pu-241, Strontium-90, Technetium-99, Tritium Uranium-235, Mercury Arsenic, Chromium	CW HW

WasteSite: CPP-88 Radiologically Contaminated Soil			CPP -	WasteType: Radiological	Ref: 538
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-13	No Further Action			CW

WasteSite: CPP-89			CPP - 604605	WasteType: Mixed	Ref: 538
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-13	RI/FS	Group2: Soils Under Buildings and Structures. Tunnel excavation located beneath Buildings CPP-604 and CPP-605.	Americium-241, Cesium-137, Cobalt-60 Iodine-129, Neptunium-237, Plutonium-228,-239/240 Pu-241, Strontium-90, Technetium-99, Tritium Uranium-235, Mercury Arsenic, Chromium	CW HW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-90 CPP-709 Ruthenium Detection			CPP - 709	WasteType: Radiological	Ref: 538
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-13	No Further Action			CW

WasteSite: CPP-91			CPP -	WasteType: Mixed	Ref: 538
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-13	RI/FS	Group3: Other Surface Soil Sites.	Americium-241, Cesium-137, Cobalt-60 Europium-152,-154 Plutonium-238,-239/240,-241 Strontium-90, Uranium-235 Mercury, Lead, Chromium	CW HW

WasteSite: CPP-92			CPP -	WasteType: Unknown	Ref: NA
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
3-13	Unknown			

INTEC (WAG 03) Waste Sites

WasteSite: CPP-93			CPP -	WasteType: Mixed	Ref: 538
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-13	RI/FS	Group3: Other Surface Soil Sites.	Americium-241, Cesium-137, Cobalt-60		CW
			Europium-152,-154		HW
			Plutonium-238,-239/240,-241		
			Strontium-90, Uranium-235		
			Mercury, Lead, Chromium		
WasteSite: CPP-94			CPP -	WasteType: Chemical	Ref: 538
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-13	RI/FS	Group6: Buried gas Cylinders. This site includes an area about 1.5 miles northeast of the ICPP along the south side of a dirt security road. Four exposed gas cylinders have been observed at the site and are believed to contain hydrofluoric acid.	fluoride		HW
WasteSite: CPP-95 ICPP Wind Blown Plume			CPP -	WasteType: Radiological	Ref: 538
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-13	No Further Action				CW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-96 NSI Tank Farm Interstitial Soils			CPP -	WasteType: Mixed	Ref: 527
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-14	New Site Identification	The ICPP Tank Farm area contains contaminated soil with radioactive and potentially listed constituents. The known release sites within the Tank Farm area have been identified as ECAs (Environmentally Controlled Areas). Requires further action. Identified August 1999.			HW CW
WasteSite: CPP-97 Tank Farm Soil Stockpiles			CPP -	WasteType: Radiological	Ref: NA
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-13	Unknown				CW
WasteSite: CPP-98 Tank Farm Shoring Boxes			CPP -	WasteType: Radiological	Ref: NA
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-13	Unknown				CW

INTEC (WAG 03) Waste Sites

WasteSite: CPP-99 Boxed Soil			CPP -	WasteType: Radiological	Ref: NA
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
3-13	Unknown				CW

CFA (WAG 04) Waste Sites

WasteSite: CFA-01 Landfill I		CFA -	WasteType: Mixed	Ref: 574
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-10	RI/FS	DOE, IDHW, and EPA recommend that OU 4-10 be included in the OU 4-12 RI/FS.		CW
4-12	RA	<p>Landfill I covers approximately 8.25 acres where wastes were disposed from the early 1950s until 1984. It is made of three sub units: the rubble landfill in a former gravel quarry, the western waste trench, and the northern waste trench. No disposal records were kept on the types of wastes disposed of. Based on interviews, wastes included construction debris, paper, cafeteria garbage, and other solid and liquid wastes typically found in municipal landfills. Wastes such as wood, paper, and flammable materials disposed to Landfill I were typically disposed by open burning of the materials in the trenches. Metals and small amounts of liquid wastes were disposed. Some paint, chemicals, heavy metals, and sludge may have been disposed at this Landfill. Flammable liquids such as oil and solvents were sometimes used to assist burning, but quantities are unknown. Ashes from the incinerator were disposed in the rubble landfill. Although not intended for disposal of radioactive-contaminated materials, it is possible that infrequent, inadvertent disposal occurred.</p>	<p>beryllium</p> <p>benzo(a)pyrene</p> <p>cobalt-60</p> <p>VOCs</p>	<p>CW</p> <p>HW</p>

CFA (WAG 04) Waste Sites

WasteSite: CFA-02 Landfill II			CFA -	WasteType: Chemical	Ref: 576
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
4-12	RA	Landfill II is a former gravel quarry where wastes were disposed over an area of approx. 15 acres. Disposal started in 1972 and continued until 1982. At the time Landfill II began accepting wastes, DOE also began the Non-radioactive Industrial Waste Information System, a records system to categorize solid and liquid waste types and volumes disposed to Landfill II. Approx. 95% of the solid wastes disposed of consisted of trash and sweepings, cafeteria garbage, wood and scrap lumbar, and masonry/concrete. 5% consisted of weeds, grass, dirt, gravel, asphalt, asbestos, and other waste building materials. Metals and small amounts of liquid wastes consisting of waste oil sludge, solvents, paint, paint thinner, and chemicals were also disposed in the landfill.	volatile and semi-volatile compounds		HW
			methane		

WasteSite: CFA-03 Landfill III			CFA -	WasteType: Chemical	Ref: 576
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
4-12	RA	The portion of Landfill III included in investigation covers approx. 12 acres and accepted wastes from 1982 to 1984. During this period waste was placed and compacted into six trenches. Heavy equipment was used to compact waste placed in the trenches and cover it daily with a layer of soil. Records taken from the Non-radioactive Industrial Waste Information System were used to determine the types and volumes of wastes disposed in Landfill III. 96% of the solid wastes disposed in Landfill III consisted of trash and sweepings, cafeteria garbage, wood and scrap lumber, and masonry/concrete. 4% consisted of weeds, grass, dirt, gravel, asphalt, asbestos, and other waste building materials. Liquid wastes such as waste asphalt and paint were also disposed in the landfill.	semivolatile organic compounds		HW
			Bis (2-ethylexyl) phthalate		
			VOCs		
			methane		

CFA (WAG 04) Waste Sites

WasteSite: CFA-04 Disposal Pond			CFA - 674	WasteType: Mixed	Ref: 570
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
4-05	RI/FS	NA	uranium-234,235,238		CW
			Cs-137		HW
			mercury		
			arsenic, nitrate		
			polychlorinated biphenyls		
4-13	Interim Action	Shallow dry basin containing mercury contaminated soil from laboratory waste discharges, and adjacent area contaminated by wind dispersal of pond waste.	mercury		CW
			copper		HW
			cesium-137		
4-13A	Interim Action	Shallow dry basin containing mercury contaminated soil from laboratory waste discharges, and adjacent area contaminated by wind dispersal of pond waste.	mercury		CW
			copper		HW
			cesium-137		
4-13B	RI/FS	Shallow dry basin containing mercury contaminated soil from laboratory waste discharges, and adjacent area contaminated by wind dispersal of pond waste.	mercury		CW
			copper		HW
			cesium-137		

CFA (WAG 04) Waste Sites

WasteSite: CFA-05 Motor Pool Pond			CFA -	WasteType: Chemical	Ref: 575
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
4-11	No Further Action	This unlined surface impoundment is located east of parking area 12. In the past, the discharge waste water contained oil, greases and battery acid, however, a pond sediment sample taken in 1982 showed the presence of chromium, barium, cadmium, lead, nickel dioctylphthal, and PCB. Contamination route of primary concern is groundwater. The site has been covered.	chromium		HW
			barium		
			cadmium		
			lead, nickel		
			PCB		
WasteSite: CFA-06 Lead Shop			CFA -	WasteType: Chemical	Ref: 571
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
4-13	No Further Action	Actions were completed and source of contamination no longer exists or is below threshold levels.	lead		HW
			antimony		
			arsenic		
WasteSite: CFA-06 Lead Shop (outside areas)			CFA -	WasteType: Chemical	Ref: 571
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
4-06	RI/FS	Unknown contamination and should be evaluated further.	lead		HW
			antimony		
			arsenic		

CFA (WAG 04) Waste Sites

WasteSite: CFA-07 French Drains East/South of CFA-633 CFA - 633			WasteType: Chemical	Ref: 572
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-07	RI/FS	Potential risks to certain contaminants and should be evaluated further.	lead arsenic	HW
4-09	RA	Actions were completed and source of contamination no longer exists or is below threshold levels.	lead arsenic	HW

WasteSite: CFA-08 Sewage Plant, Septic Tanks and Drainfield CFA -			WasteType: Radiological	Ref: 573
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-08	RI/FS	CFA-691, CFA-716, and Drainfield. This site should be further evaluated in the RI/FS.		CW

CFA (WAG 04) Waste Sites

WasteSite: CFA-08 Sewage Treatment Plant Drainfield			CFA -	WasteType: Radiological	Ref: 577
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
4-13	RI/FS	Site CFA-08 includes a sewage treatment plant, a septic tank, a pumping station, a laundry drainpipe from the old 'hot' laundry to the treatment plant, a drainfield, and the underground pipelines associated with the drainfield. The first two sections were built in 1944 as part of the Navy's sewer system. Two additional sections were installed in 1953 and a fifth was added in 1961. The drainfield was used until 1995, when the plant was replaced with a new sewage treatment plant. Wastewater entered the drainfield through a pipeline along the west side, and flowed through feeder lines and diversion boxes into the five sections, where it was dispersed through gravel filled trenches containing clay drain tiles. The feeder lines, diversion boxes, and drain tiles contain small amounts of residual LLRW sludge. Water from the drainfield created two perched water zones.	cesium-137		CW
4-13A	Interim Action	Site CFA-08 includes a sewage treatment plant, a septic tank, a pumping station, a laundry drainpipe from the old 'hot' laundry to the treatment plant, a drainfield, and the underground pipelines associated with the drainfield. The first two sections were built in 1944 as part of the Navy's sewer system. Two additional sections were installed in 1953 and a fifth was added in 1961. The drainfield was used until 1995, when the plant was replaced with a new sewage treatment plant. Wastewater entered the drainfield through a pipeline along the west side, and flowed through feeder lines and diversion boxes into the five sections, where it was dispersed through gravel filled trenches containing clay drain tiles. The feeder lines, diversion boxes, and drain tiles contain small amounts of residual LLRW sludge. Water from the drainfield created two perched water zones.	cesium-137		CW
4-13B	RI/FS	Site CFA-08 includes a sewage treatment plant, a septic tank, a pumping station, a laundry drainpipe from the old 'hot' laundry to the treatment plant, a drainfield, and the underground pipelines associated with the drainfield. The first two sections were built in 1944 as part of the Navy's sewer system. Two additional sections were installed in 1953 and a fifth was added in 1961. The drainfield was used until 1995, when the plant was replaced with a new sewage treatment plant. Wastewater entered the drainfield through a pipeline along the west side, and flowed through feeder lines and diversion boxes into the five sections, where it was dispersed through gravel filled trenches containing clay drain tiles. The feeder lines, diversion boxes, and drain tiles contain small amounts of residual LLRW sludge. Water from the drainfield created two perched water zones.	cesium-137		CW

CFA (WAG 04) Waste Sites

WasteSite: CFA-09 Central Gravel Pit			CFA -	WasteType: Chemical	Ref: 542
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-01	No Further Action	This unlined gravel pit is reported to contain an unexploded artillery shell left from the Navy Artillery Range.		HW

WasteSite: CFA-10 Transformer Yard			CFA - 667	WasteType: Chemical	Ref: 577
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-09	RI/FS	Oil Spills.	lead oil	HW

4-13A	Interim Action	(Also called Treatment Yard) From 1985 to 1990, this concrete pad at the site was used as a temporary storage location for transformers, which may have contained PCBs. The area is a fenced yard adjacent to building CFA-667 which was used as a metal working shop. This storage yard is contaminated with lead from the adjacent facility.	lead	HW
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4-13B	RI/FS	NA	lead	HW
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CFA (WAG 04) Waste Sites

WasteSite: CFA-11 French Drain Containing 5" Shell			CFA - 633	WasteType: Chemical	Ref: 541
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-01	No Further Action	A 5" artillery shell from the Navy Artillery Range may be buried in the drain of this site.		HW

WasteSite: CFA-12 French Drain			CFA - 690	WasteType: Radiological	Ref: 572
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-07	No Further Action	North Drain Only.		CW

4-07	RI/FS	South Drain Only. Potential risks to certain contaminants and should be evaluated further.	Ag-108 Cs-137 Eu-152	CW
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4-09	RA	South Drain Only. Since remediation, no further action.	Ag-108 Cs-137 Eu-152	CW
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CFA (WAG 04) Waste Sites

WasteSite: CFA-13 Dry Well South of CFA-640			CFA - 640	WasteType: Mixed	Ref: 543
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
4-02	No Further Action	This site is an area south of the demolished locomotive repair shop building CFA-640. This building had a floor drain connected to piping, which ran outside of the building, that was cut and capped by previous D&D activities. This piping might have run into the CFA-13 Dry Well. Therefore, it is possible the VOCs, Semivolatile Organic Compounds (SVOCs), PCBs, petroleum products, metals, and/or radiological contaminants were discharged to the dry well through this drain. This site was excavated and backfilled under a RA in 1997. The wastes were disposed at the CFA Bulky Waste Landfill.	VOCs		HW
			SVOCs		De
			PCBs		
			petroleum		
			LLRW		
WasteSite: CFA-14 Five Dry Wells CFA-665			CFA - 665	WasteType: Radiological	Ref: 544
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
4-02	No Further Action	This site consists of five dry wells in the vicinity of building of CFA-665. The dry wells were constructed in 1950 when CFA-665 was built. The drains were installed to receive the discharge from the buildings roof drainage system. Four of the dry wells on the south side of CFA-665 were covered or removed when the building was expanded to add two shop bays and parts storage building (CFA-672). A fifth dry well on the west side of CFA-665 would have been covered with asphalt. Presently, all discharge from the roof drainage system is directed to the ground. No contaminants of concern have been identified for CFA-14. Precipitation discharge from the roof drains of CFA-665 was clean water.			CW
WasteSite: CFA-15 Dry Well CFA-674			CFA - 674	WasteType: Mixed	Ref: 543
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
4-02	No Further Action	CFA-15 was located on the SW corner of building CFA-674. No records were found on this site to indicate that waste was sent to this dry well. However, further investigation identified a floor drain inside building CFA-674 with piping connected to the dry well. Therefore, a potential existed that this dry well may have received laboratory liquid waste and solid calcined wastes. The site was excavated and backfilled in one day in 1997 under a RA. It was graded and compacted. Wastes were disposed at the CFA Bulky waste Landfill.	laboratory liquid wastes		CW
			solid calcined waste		HW

CFA (WAG 04) Waste Sites

WasteSite:	CFA-16 Dry Well South of CFA-682 Pumphouse	CFA - 682	WasteType: Radiological	Ref: 545
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-02	No Further Action	No known hazardous materials were identified as having been disposed at this dry well.		CW

WasteSite:	CFA-17 Fire Department Training Area, Bermed	CFA -	WasteType: Chemical	Ref: 543
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-05	No Further Action	Track 2 investigations found this site to have several COCs. Excavation activities began August 4th 1997 with removal of the asphalt and concrete burn basins. The concrete and underground piping were taken to the CFA landfill for disposal. The above ground piping and the carbon steel burns pans were taken to CFA for recycling. Because the soil was discolored and displayed a strong petroleum odor, excavation followed visual and odor observations. The excavated soils were removed and transported by dump truck to the CFA Landfarm. It was then backfilled.	polycyclic aromatic hydrocarbons lead arsenic	HW De

WasteSite:	CFA-18 Fire Department Training Area, Oil Storage	CFA -	WasteType: Chemical	Ref: 565
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	Oil Storage Tanks. This UST contains fuel oil. Contamination route of primary concern is groundwater.		HW

CFA (WAG 04) Waste Sites

WasteSite: CFA-19 Gasoline Tanks (2) E of CFA-606			CFA - 606	WasteType: Chemical	Ref: 563
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	These USTs tanks contain diesel fuel.	diesel fuel	HW

WasteSite: CFA-20 Fuel Oil Tank at CFA-609 (CFA-732)			CFA - 609	WasteType: Chemical	Ref: 561
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	This UST contains fuel oil. Contamination route of primary concern is groundwater.	fuel oil	HW

WasteSite: CFA-21 Fuel Tank at Nevada Circle 1			CFA - 629	WasteType: Chemical	Ref: 560
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	South by CFA-629. This UST contains fuel oil. Contamination route of primary concern is groundwater.	fuel oil	HW

CFA (WAG 04) Waste Sites

WasteSite: CFA-22 Fuel Oil Tank at CFA-640			CFA - 640	WasteType: Chemical	Ref: 559
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	This UST contains fuel oil. Contamination route of primary concern is groundwater.		HW

WasteSite: CFA-23 Fuel Oil Tank at CFA-641			CFA - 641	WasteType: Chemical	Ref: 558
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	This UST contains fuel oil. Contamination route of primary concern is groundwater.	fuel oil	HW

WasteSite: CFA-24 Fuel Tank at Nevada Circle 2			CFA - 629	WasteType: Chemical	Ref: 557
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	(South by CFA-629). This tank contains fuel oil. Contamination route of primary concern is groundwater.		HW

CFA (WAG 04) Waste Sites

WasteSite:	CFA-25 Fuel Oil Tank at CFA-656 (North Side)	CFA - 656	WasteType: Chemical	Ref: 556
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	This UST contains fuel oil. Contamination route of primary concern is groundwater.		HW

WasteSite:	CFA-26 Pump Station Fuel Spill	CFA - 760	WasteType: Chemical	Ref: 577
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-09	No Further Action	NA		HW

WasteSite:	CFA-27 Fuel Oil Tank at CFA-669 (CFA-740)	CFA - 669	WasteType: Chemical	Ref: 555
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	This UST contains fuel oil. The condition is unknown but is expected to be good (non-leaking). Contamination route of primary concern is groundwater.	fuel oil	HW

CFA (WAG 04) Waste Sites

WasteSite: CFA-28 Fuel Oil Tank at CFA-674 (West)			CFA - 674	WasteType: Chemical	Ref: 554
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	This UST contains fuel oil. Contamination route of primary concern is groundwater.	fuel oil	HW

WasteSite: CFA-29 Waste Oil Tank at CFA-664, active			CFA - 664	WasteType: Chemical	Ref: 553
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	This UST contains waste oil from CFA. Contamination route of primary concern is groundwater.	oil	HW

WasteSite: CFA-30 Waste Oil Tank at CFA-665, active			CFA - 665	WasteType: Chemical	Ref: 552
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	This UST contains wastes oil from CFA. Contamination route of primary concern is groundwater.	oil	HW

CFA (WAG 04) Waste Sites

WasteSite: CFA-31 Waste Oil Tank at CFA-754, active		CFA - 754	WasteType: Chemical	Ref: 551
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	This UST contains waste oil from CFA. Contamination route of concern is groundwater.	waste oil	HW

WasteSite: CFA-32 Fuel Tank at CFA-667 (North Side)		CFA - 667	WasteType: Chemical	Ref: 564
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	This UST may contain fuel oil. Contamination route of concern is groundwater.	fuel oil	HW

WasteSite: CFA-33 Fuel Tank at CFA-667 (South Side)		CFA - 667	WasteType: Chemical	Ref: 562
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	This UST contains fuel oil. Contamination route of primary concern is groundwater.	fuel oil	HW

CFA (WAG 04) Waste Sites

WasteSite: CFA-34 Diesel Tank at CFA-674 (South)		CFA - 674	WasteType: Chemical	Ref: 550
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	This UST contains diesel fuel oil. Contamination route of concern is groundwater.	fuel oil	HW

WasteSite: CFA-35 Sulfuric Acid Tank at CFA-674 (West Side)		CFA - 674	WasteType: Chemical	Ref: 549
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	This UST contains sulfuric acid. Tank condition is unknown but is expected to be good (non-leaking). Contamination route of primary concern is groundwater. Actions were completed and sources of contamination no longer exist or are below threshold.		HW

WasteSite: CFA-36 Gasoline Tank at CFA-680		CFA - 680	WasteType: Chemical	Ref: 546
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	This underground storage tank contains gasoline fuel. Contamination route of concern is groundwater.	gasoline	HW

CFA (WAG 04) Waste Sites

WasteSite: CFA-37 Diesel Tank at CFA-681 (South Side)		CFA - 681	WasteType: Chemical	Ref: 547
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	This UST contains diesel fuel. Contamination route of concern is groundwater.	diesel fuel	HW

WasteSite: CFA-38 Fuel Oil Tank, CFA-683		CFA - 683	WasteType: Chemical	Ref: 548
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	This UST contains fuel oil. Contamination route of primary concern is groundwater.	fuel oil	HW

WasteSite: CFA-39 Drum Dock (CFA-771)		CFA - 771	WasteType: Chemical	Ref: 567
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-04	No Further Action	This was a storage area for used drums that contained a variety of chemicals. The empty drums were placed in the area prior to recycle or excess sales. It is assumed that the drums may not have been properly cleaned prior to 1980 and some chemicals may have spilled on the ground. The only thing remaining is potentially contaminated soil under the new building in the area.		HW

CFA (WAG 04) Waste Sites

WasteSite: CFA-40 Returnable Drum Storage			CFA - 601	WasteType: Chemical	Ref: 568
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
4-04	No Further Action	South of CFA-601. This area is an outdoor storage yard where empty drums are stored prior to return to a vendor. The problem arises if the drums are not completely empty or rinsed when received from the contractors. The vendor may dump them out before loading.			HW

WasteSite: CFA-41 Excess Drum Storage			CFA - 674	WasteType: Chemical	Ref: 569
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
4-04	No Further Action	South of CFA-674. This facility is an outside storage pond where excess drums are stored prior to sale. The problem arises when the drums are received from contractors without being completely emptied or rinsed. When someone buys them, they may empty them on the ground prior to transport.			HW

WasteSite: CFA-42 Tank Farm Pump Station Spills			CFA -	WasteType: Unknown	Ref: 577
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
4-09	No Further Action	Actions were completed and source of contamination no longer exists or is below threshold levels.			

CFA (WAG 04) Waste Sites

WasteSite: CFA-43 Lead Storage Area			CFA -	WasteType: Chemical	Ref: 571
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
4-06	RI/FS	Unknown contamination and should be evaluated further.	lead antimony arsenic		HW
4-13	No Further Action	Actions were completed and source of contamination no longer exists or is below threshold levels.	lead antimony arsenic		HW

WasteSite: CFA-44 Spray Paint Booth Drain (CFA-654)			CFA - 654	WasteType: Chemical	Ref: 571
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
4-06	RI/FS	Potential contamination from metals associated with paint wastes.			HW
4-13	No Further Action	Actions were completed and source of contamination no longer exists or is below threshold levels.			HW

CFA (WAG 04) Waste Sites

WasteSite: CFA-45 Underground Storage Tank		CFA - 605	WasteType: Chemical	Ref: 566
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-03	No Further Action	Former location of UST CFA-605W. Before the tank was removed, the UST stored diesel fuel used for heating Building CFA-605, the Materials Testing Lab. Sampled in June 1989 and classified as waste oil. The tank was removed and soil was tested. Samples indicated elevated total petroleum hydrocarbons.	benzene toluene ethylbenzene m-,o-,p-xylene 1,2-dichlorobenzene, 1,4-DCB	HW

WasteSite: CFA-46 Cafeteria Oil Tank Spill		CFA - 721	WasteType: Chemical	Ref: 577
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-09	No Further Action	Actions were completed and source of contamination no longer exists or is below threshold levels.	oil	HW

WasteSite: CFA-47 Fire Station Chemical Disposal		CFA -	WasteType: Chemical	Ref: 543
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-05	No Further Action	Track 2 investigations found this site to have several COCs. Excavation activities began August 4th 1997 with removal of the asphalt and concrete burn basins. The concrete and underground piping were taken to the CFA landfill for disposal. The above ground piping and the carbon steel burn pans were taken to CFA for recycling. Because the soil was discolored and displayed a strong petroleum odor, excavation followed visual and odor observations. The excavated soils were removed and transported by dump truck to the CFA Landfarm. It was then backfilled. Actions were completed and source of contamination no longer exists or is below threshold levels.	polycyclic aromatic hydrocarbons	HW

De

CFA (WAG 04) Waste Sites

WasteSite: CFA-48 Chemical Washout South of CFA-633			CFA - 633	WasteType: Chemical	Ref: 572
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
4-07	No Further Action	Contamination below threshold.			HW

WasteSite: CFA-49 Hot Laundry Drain Pipe			CFA -	WasteType: Radiological	Ref: 573
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
4-08	R/FS	This site should be further evaluated in the R/FS.			CW

4-13	No Further Action	Contamination below threshold.			CW
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WasteSite: CFA-50 Shallow Well East of CFA-654			CFA - 654	WasteType: Unknown	Ref: 570
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
4-05	No Further Action	NA			

CFA (WAG 04) Waste Sites

WasteSite:	CFA-50 Shallow Well East of CFA-654	CFA - 654	WasteType: Unknown	Ref: 570
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-09	No Further Action	Contamination below threshold.		

WasteSite:	CFA-51 Drywell at North end of CFA-640	CFA - 640	WasteType: Chemical	Ref: 577
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-13	No Further Action	Actions were completed and source of contamination no longer exists or is below threshold levels.		HW

WasteSite:	CFA-52 Diesel Fuel UST at Bunkhouse	CFA -	WasteType: Chemical	Ref: 577
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
4-13	No Further Action	CFA-730 at Building CFA-613 Bunkhouse.		HW

CFA (WAG 04) Waste Sites

WasteSite: CFA-A			CFA -	WasteType:	Ref: NA
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
4-13	Unknown	NA			

ARA / PBF (WAG 05) Waste Sites

WasteSite: ARA-01 ARA-I Chemical Evaporation Pond			ARA - 745	WasteType: Mixed	Ref: 600
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5-10	RI/FS	(SE ARA-745) ARA-I is a surplus facility that was used as a nuclear research area and for various operations related to the examination or storage of radioactively contaminated materials. The ARA-I is comprised of two main buildings, ARA-626 and ARA-627. ARA-626 was a hot cell used to support materials research. ARA-626 was not connected to the pond. ARA-627 served as a print shop and research laboratory for materials development and testing. During an expansion, the ARA-I Chemical Evaporation Pond and the waste line from ARA-627 were constructed. Wastes from these facilities were disposed of at the pond.	radioactive acids		HW
			VOCs		CW
			acids		
5-12	RI/FS	Associated with SL-1 soil contamination (ARA-23). Soil Contamination. This site is a shallow unlined pond. It was excavated in 1971 to receive laboratory wastewater from the ARA-I Shop and Maintenance Building. The pond, located southeast of the ARA-I facility, was used until 1988. The laboratory wastewater contained small quantities of radioactive substances and metals. A ROD was published in 1992. Additional sampling was conducted in 1997 to define the contamination at the site and evaluate groundwater risks. Contaminants were limited to the top two feet of soil.	Silver-108m		CW
			Cesium-137, Radium-226		HW
			Arsenic, Copper		
			Lead, Mercury		
			Selenium, Thallium		
WasteSite: ARA-02 ARA-I Sanitary Waste System			ARA - 746	WasteType: Mixed	Ref: 603
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5-07	RA	This is a sanitary septic system (servicing ARA-I buildings 626 (hot cell), 627, and 628) comprised of three septic tanks, a seepage pit, and associated piping that serviced the ARA-I facility from 1960 to 1988. Soil sampling was conducted in 1992 and found to have radioactivity, organics, and inorganics. Track 2 investigation recommends remedial action.	VOCs, SVOCs, PCBs		CW
			beryllium		HW
			U-234,238		
			Sr-90		
			nitric acid		

ARA / PBF (WAG 05) Waste Sites

WasteSite: ARA-02 ARA-I Sanitary Waste System			ARA - 746	WasteType: Mixed	Ref: 603
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5-12	RI/FS	Associated with SL-1 soil contamination (ARA-23). This is a sewage system south of ARA-I that includes a series of three septic tanks, a seepage pit, and piping connecting the septic tanks into the pit. The system was built in 1960 to service ARA-I buildings. The concrete septic tanks drain into a 400-foot-long pipeline that leads to the seepage pit. The 9-foot-diameter pit was excavated into the underlying basalt to 10 feet. The pit walls were lined with cinder blocks, the floor was lined with gravel, and a concrete lid was placed on top. Approximately 6 inches of dried residual sludge remain in the bottom of the pit. The sanitary waste system was used until 1988 when ARA-I was shut down. Although no process wastes were known to have been routed to the system, LLMW was detected in the septic tanks and seepage pit. Contaminants of concern are for sludge only.	arsenic, cadmium, chromium, copper		CW
			lead, nickel, silver, Pu-238,239/240, Ra-226,Sr-90		HW
			Aroclor-1242, diethylether, Eu-152-154, Np-237		
			Ag-108m, Am-241, Co-60, Cs-134		
			Tc-99, th-230, U-234,235,238,Beryllium		

WasteSite: ARA-02 Seepage Pit Soils			ARA -	WasteType: Mixed	Ref: 603
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5-12	RI/FS	Associated with SL-1 soil contamination (ARA-23).This area is the greatest concern for soil contamination at ARA-02 because the structure is open to the basalt beneath it. The pit was sampled through borehole drilling.	arsenic, chromium		HW
			copper, lead, nickel		CW
			Am-241, Cs-137		
			Eu-152, Ra-226		
			U-234,-235,-238		

ARA / PBF (WAG 05) Waste Sites

WasteSite: ARA-02 Septic Tank Soils			ARA -	WasteType: Mixed	Ref: 603
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5-12	RI/FS	Associated with SL-1 soil contamination (ARA-23). This unit accompanies ARA-02: ARA-I Sanitary Waste Leach Field and Seepage Pit (ARA-746). Boreholes were drilled and samples were obtained from the soils adjacent to the first two ARA-02 septic tanks. Several attempts to drill a borehole next to the third septic tank were unsuccessful. Apparently, the septic tank was blasted into basalt, and the interface was found to be only several feet below land surface. Therefore, samples could be collected only from shallow soils rather than at the base of the tank. Further action is required.	arsenic		CW
			Ra-226		HW
			U-234		
			U-235		
WasteSite: ARA-03 Pad Near ARA-627 (PB Sheeting)			ARA - 627	WasteType: Radiological	Ref: 686
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5-07	RA	Associated with SL-1 soil contamination (ARA-23). This site is an area of surface soil contaminated with radioactivity from an unknown source. Sample results from April 1991 indicate that surface soils contain gamma-emitting radionuclides. Remedial Action through excavation is recommended.	Cs-137		CW
WasteSite: ARA-04 ARA-I Sewage Treatment Facility			ARA - 737	WasteType: Radiological	Ref: 603
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5/NA	No Further Action	Associated with SL-1 soil contamination (ARA-23). The site consists of the chlorinator enclosure located east of ARA-I and directly north of the ARA-747 septic system. The structure was used to distribute hypochlorite solution into the sewer system from approximately 1955 to 1965. Currently, the enclosure is completely portable with no lines tying it to any other structures.			CW

ARA / PBF (WAG 05) Waste Sites

WasteSite:	ARA-05 Evaporation Pond to NE	ARA - 744	WasteType: Radiological	Ref: 583
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-01	No Further Action	Associated with SL-1 soil contamination (ARA-23). This facility is shown on a master plan of the site, however, there is no record of its use and no facility drawings that show any drains lines running to it.		CW

WasteSite:	ARA-06 ARA-II SL-1 Burial Grounds	ARA -	WasteType: Radiological	Ref: 592
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-05	RI/FS	Associated with SL-1 soil contamination (ARA-23). The Stationary Low-power Reactor-1 (SL-1) burial site is located NE of ARA-II and includes the surface-soil area surrounding a 600 by 300 foot fenced burial ground. Approx. 99,000 cubic feet of radionuclide-contaminated debris, soil, and gravel are disposed in the burial ground. The SL-1 burial ground is historical and does not host any current program. Current activities are limited to periodic observations for maintenance of the fences and grounds and monitoring for radioactivity. An engineered cover was placed over the burial ground in 1996.	cesium-137	CW

WasteSite:	ARA-07 ARA-II Seepage Pit to East	ARA - 720A	WasteType: Radiological	Ref: 699
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5/NA	Five Year Review	Associated with SL-1 soil contamination (ARA-23). This seepage pit received runoff from two septic tanks on site from 1959 to 1986. It is currently covered and fenced. Gamma isotopic analysis of the composite sample indicated the presence Cs-137. The elevated Cs-137 concentration may be related to the 1961 SL-1 accident and subsequent cleanup. Any residual soil contamination will be addressed as part of the RA for ARA-23.	Cs-137	CW

ARA / PBF (WAG 05) Waste Sites

WasteSite: ARA-08 ARA-II Seepage Pit to West			ARA - 720B	WasteType: Radiological	Ref: 698
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5/NA	Five Year Review	Associated with SL-1 soil contamination (ARA-23). This facility receives runoff from one septic tank. The system was in use from approximately 1959 to 1986. It is not covered or fenced. The only suspected waste material was sewage. Radiological and chemical analyses of sediment samples collected from the seepage pit in 1991 showed Cs-137. This contamination may be related to the 1961 SL-1 accident and subsequent clean-up. Any residual soil contamination will be addressed in the RA for ARA-23.	Cs-137	CW

WasteSite: ARA-09 ARA-II Septic Tank			ARA - 738	WasteType: Radiological	Ref: 697
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5/NA	No Further Action	Associated with SL-1 soil contamination (ARA-23). This facility is a septic tank for sewage. The system was in use from approximately 1959 to 1986. There was no record of hazardous wastes entering the system. The septic tank and sludge were moved during 1994 D&D activities. After D&D, the site was determined as free of significant contamination.	Cs-137	CW

De

WasteSite: ARA-10 ARA-II Septic Tank East			ARA - 613	WasteType: Radiological	Ref: 696
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5/NA	No Further Action	Associated with SL-1 soil contamination (ARA-23). This facility is a septic tank for handling site sewage. The system was in use from approximately 1959 to 1986. No known hazardous waste was placed in the facility. Radiological and chemical analyses of two residue samples collected in 1991 indicated Cs-137. The septic tank was removed during D&D activities in 1995 and disposed of at the RWMC. The area was also excavated at this time. Soil sampling indicated showed no radioactivity.		CW

De

ARA / PBF (WAG 05) Waste Sites

WasteSite: ARA-11 ARA-II Septic Tank West			ARA - 606	WasteType: Radiological	Ref: 695
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5/NA	No Further Action	Associated with SL-1 soil contamination (ARA-23). This facility is a septic tank for receiving sewage from on-site buildings. The system was in use from approx. 1959 to 1986. There is no evidence of hazardous waste being placed in it. Radiological and chemical analyses indicated Cs-137 was not above background levels. The septic tank was removed during D&D activities in 1995.	Cs-137		CW
					De
WasteSite: ARA-12 ARA-III Radioactive Waste Leach Pond			ARA -	WasteType: Mixed	Ref: 593
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5-06	R/FS	This is an unlined disposal pond constructed in a natural depression that received LLRW waste and cooling water from 1960 to 1965. The effluent is known to have contained radioactive silver that was used as a moderator and chromium that was used as a scale inhibitor.	radioactive silver		CW
			chromium		HW
			SVOCs		
			PCBs		
5-12	R/FS	Soil Contamination. This site is an unlined surface pond. It was excavated in a natural depression west of the ARA-III facility around 1959 to receive liquid LLRW from reactor research operations. Discharges to the pond also contained chromium. The tanks and waste lines to the leach pond were removed in 1993 during the D&D of ARA-III. Sampling was conducted in 1994 to define the contamination at the site.	Silver-108m		HW
			Cesium-137, Radium-226		De
			Arsenic, Copper		
			Lead, Mercury		
			Selenium, Thallium		

ARA / PBF (WAG 05) Waste Sites

WasteSite: ARA-13 ARA-III Sanitary Sewer Leach Field/Septic ARA - 740			WasteType: Mixed	Ref: 601
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-11	Further Action	The ARA-III Sanitary Sewer Leach Field and Septic Tank (ARA-740) was used to dispose of sewage from buildings ARA-630 and ARA-621 at ARA-III. The leach field and septic tank lie within the facility fence in the northwest corner of ARA-III. Sanitary wastes generated in buildings ARA-621 and ARA-630 were disposed into the system from 1969 to 1980. Between 1980 and 1983, in addition to sanitary wastes, small quantities of hazardous laboratory constituents from the same two buildings were diverted to the ARA-740 system. No radioactive materials are known to have been disposed into the sanitary sewer system. Discharges were discontinued in 1983.	arsenic barium beryllium mercury, thallium nickel, selenium	CW HW
WasteSite: ARA-14 ARA-III Septic Tank and Drain Field ARA - 739			WasteType: Radiological	Ref: 687
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5/NA	No Further Action	This facility is a sewage septic tank and drain field. The system received sanitary waste from the Control Building (ARA-607) from 1959 to 1989. There is no evidence that hazardous waste was placed in the system. The tank was removed by the D&D program in 1996, and waste is currently in an approved temporary accumulation area at the ARA-III facility. D&D personnel sample and monitor the drummed waste in storage. The site itself is now 'no further action'.		CW De
WasteSite: ARA-15 Radionuclide Tank ARA - 735			WasteType: Radiological	Ref: 581
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-01	No Further Action	This tank was used for holding radioactive waste water. There are no known hazardous wastes in the tank.		CW

ARA / PBF (WAG 05) Waste Sites

WasteSite: ARA-16 ARA-I Radionuclide Tank			ARA - 729	WasteType: Mixed	Ref: 582
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5-01	RI/FS	Associated with SL-1 soil contamination (ARA-23). This facility received contaminated wash water from a hot cell. The wash was primarily non-hazardous, however, minor amounts of acetone and methanol were utilized. The unit is still active for strictly radioactive contaminated water.	acetone		HW
			methanol		CW
5-12	RI/FS	Associated with SL-1 soil contamination (ARA-23). The ARA-16 site contains a 3,785-L stainless steel underground radioactive waste holding tank. From 1959 to 1988, the tank received radioactive liquid waste, including wash water from the ARA-I hot cells, methanol, acetone, chlorinated paraffin, and mixed acids from materials testing and research & metal-etching processes. Periodically, the contents of the tank were emptied into a tank truck and transported to the Idaho Nuclear Technology and Engineering Center (INTEC) for disposal on an as needed basis as defined by the level in the tank. Because the 1988 sampling agitated the tank contents before sampling, the two layers of the tank contents had to be sampled individually. Results are included in the WAG 5 Comprehensive Feasibility Study.	LLRW		HW
			methanol		CW
			acetone		
			chlorinated paraffin		
			mixed acids		

ARA / PBF (WAG 05) Waste Sites

WasteSite: ARA-16 ARA-I Radionuclide Tank			ARA - 729	WasteType: Mixed	Ref: 582
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5-12	RI/FS	Associated with SL-1 soil contamination (ARA-23). Soil Contamination. This radionuclide tank site includes a 1,000 gallon UST, the waste within it, the concrete vault cradling it, and the soil and gravel surrounding the vault and overlying the tank. The stainless steel storage tank rests within a lidless concrete vault and is covered by approximately 3.5 feet of soil. From 1959 to 1988, the tank was used for temporary storage of radioactive liquid waste from the ARA-I hot cells and materials testing, and research, and metal etching processes. Through sampling results and anecdotal information, the tank contents were identified as mixed waste. When ARA-I was shut down in 1988, the tank was partially excavated, all lines in and out of the tank were cut and capped, the contents of the tank were pumped out, and the excavated soils were replaced over the tank. 29 gallons of liquid and sludge remain in the tank. Sampling was conducted in 1988 and 1997 to define the contamination at the site. The entire area is affected by the windblown contamination from the cleanup of the SL-1 Reactor accident.	Cesium-137		HW
			1,1,1-trichloroethane		De
			trichloroethylene		
			tetrachloroethylene		
			xylenes, toluene		
WasteSite: ARA-16 Surface and Subsurface Soil/Gravel in Vault			ARA -	WasteType: Radiological	Ref: 603
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5-12	RI/FS	Associated with SL-1 soil contamination (ARA-23). Surface and subsurface soil and gravel inside the concrete vault at ARA-16 site were contaminated because of possible leaks and spills during pumping or filling operations. Borehole sampling occurred in 1997. No levels were above background.			CW
5-12	RI/FS	Associated with SL-1 soil contamination (ARA-23). Though this entire area was known to have been contaminated by the 1961 SL-1 reactor accident and cleanup, whether contamination had migrated through the ARA-16 vault was not known. A drill rig was used to drill alongside the vault and borehole sampling occurred in 1997. Samples indicated radiological activity and because the contamination is not from the ARA-16 tank, the soils will be addressed as part of the RA with ARA-23.			CW

ARA / PBF (WAG 05) Waste Sites

WasteSite: ARA-17 Drain from ARA-626/West of ARA-I			ARA - 626	WasteType: Chemical	Ref: 580
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-01	No Further Action	Associated with SL-1 soil contamination (ARA-23). This is a flat area that has a drainline running to it. The drain was used for boiler blow down water that may have been chemically treated. We have no record. If it was treated water, the quantities would have been very minor.		HW

WasteSite: ARA-18 Radionuclide Tank			ARA - 736	WasteType: Radiological	Ref: 579
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-01	No Further Action	This facility was used for holding radioactively contaminated waste water from a reactor facility. The only recorded contamination present is radioactive.		CW

WasteSite: ARA-19 Dentention Tank for Fuel Oil/Radionuclides			ARA - 719	WasteType: Mixed	Ref: 578
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-01	No Further Action	Associated with SL-1 soil contamination (ARA-23). This tank is used to hold radioactively contaminated fuel oil from the SL-1 Reactor clean-up operation. It is a full, 1000 gallon tank and showed no signs of leakage. The tank and piping were removed during D&D activities and shipped to WERF (1992). Soil samples showed concentration above background. This contamination is associated with the clean-up of SL-1 and will be addressed in ARA-23.	fuel oil Cs-137 Sr-90 Th-230/U-234	HW De

ARA / PBF (WAG 05) Waste Sites

WasteSite: ARA-20 Test Area Contaminated Leach Pit No. 1 ARA - IV			WasteType: Radiological	Ref: 685
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-06	No Further Action	This site consists of a concrete block lined pit with a concrete cap and manhole access. The bottom of the pit was lined with gravel. The site received waste water from the ARA-IV facility intermittently from 1959 to 1970. The leach pit, and all associated structures and piping, were removed in 1987 as part of the ARA-IV decontamination and decommissioning. As no source likely exists at the site, all pathways are considered incomplete.	U-234 Co-60 Ag-108m PCB Aroclor-1260	CW
WasteSite: ARA-21 ARA-IV Test Area Septic Tank and Leach Pit ARA -			WasteType: Radiological	Ref: 694
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5/NA	Five Year Review	This facility received sewage from the ARA-IV Reactor control building. The system was used from approx. 1957 to 1970. D&D occurred in 1987. There is no evidence that hazardous chemicals entered the facility.		CW
WasteSite: ARA-22 ARA-IV Control Area Septic Tank/Leach Pit 3 ARA - 617			WasteType: Radiological	Ref: 693
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5/NA	Five Year Review	This facility received sewage from the ARA-IV control house. The system has been active since 1959, is still in use, and presently receives sanitary waste only. The D&D program characterized the waste in 1987 and found no evidence of radiological or hazardous waste. There is no record of hazardous waste entering the facility.		CW

ARA / PBF (WAG 05) Waste Sites

WasteSite: ARA-23 ARA-I/ARA-II Radiologically Contamin. Soils ARA -			WasteType: Mixed	Ref: 602
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-12	R/FS	Soil Contamination. This site is an area containing windblown contamination. It encompasses the ARA-I and ARA-II facilities and the area surrounding the Stationary Low-Power Reactor-1 (SL-1) Burial Ground. Most of the contamination came from cleanup of the accidental destruction of the SL-1 reactor in 1961. The boundaries of ARA-23 encompass fifteen other contamination sites (ARA-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 16, 17, 19, 25) that will be remediated separately. Any contaminated subsurface foundations, water lines, and pipes remaining from previously dismantled facilities that are encountered during remediation activities will be remediated or decontaminated and left in place. Sampling occurred between 1961 and 1997 to define contamination. The results showed that contaminants were limited to the top 4 inches of soil.	Silver-108m Cesium-137, Radium-226 Arsenic, Copper Lead, Mercury Selenium, Thallium	CW HW

WasteSite: ARA-24 ARA-III Windblown Soil ARA -			WasteType: Radiological	Ref: 603
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-12	No Further Action	The ARA-24 site consists of the surface soils surrounding the ARA-III facility excluding Site ARA-12 and including the area within the ARA-III facility fence. Nearly all ARA-III structures have been removed.	Cesium-137	CW

ARA / PBF (WAG 05) Waste Sites

WasteSite: ARA-25 ARA-I Soils Beneath the ARA-626 Hot Cells ARA -			WasteType: Mixed	Ref: 602
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-12	RI/FS	Associated with SL-1 soil contamination (ARA-23). Soil Contamination. This site was discovered in 1998 during decontamination and dismantlement of the ARA-626 Hot Cells. When floor slabs of the ARA-626 building were removed, contamination was discovered in soil below, especially around several floor drains. The drains were connected to stainless steel piping to ARA-I Radionuclide Tank Site (ARA-16). The contaminated soil has a maximum depth of 5 feet and covers an approximately 384 square foot area.	Silver-108m Cesium-137, Radium-226 Arsenic, Copper Lead, Mercury Selenium, Thallium	CW HW
WasteSite: BORAX-02 BORAX-I Burial Grounds ARA -			WasteType: Radiological	Ref: 592
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-05	RI/FS	See OU 6-01 BORAX-02 for a description of this site. SL-1 and BORAX-I burial grounds are addressed in the same RI/FS.	unrecovered uranium fuel residue irradiated metal scrap	CW
WasteSite: PBF-01 PBF Control Area Septic Tank Seepage Pit PBF - 724/73			WasteType: Radiological	Ref: 689
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5/NA	Five Year Review	This facility is a sewage septic tank for buildings at the PBF control area. The system has been active since 1967, is still in use, and presently receives only nonradiological, nonhazardous sanitary discharges. There is no record of receiving hazardous waste.		CW

ARA / PBF (WAG 05) Waste Sites

WasteSite: PBF-02 PBF Control Area Septic Tanks/Seepage Pit PBF - 738/73			WasteType: Radiological	Ref: 688
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5/NA	Five Year Review	This facility receives sewage from buildings at the PBF-control area. The system, constructed in 1955, is still in use and presently receives only nonradiological, nonhazardous sanitary discharges. There is no record of them receiving hazardous waste.		CW
WasteSite: PBF-03 PBF Control Area Septic Tank/Seepage Pits PBF - 632/74			WasteType: Radiological	Ref: 607
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5/NA	Five Year Review	This facility receives sewage from buildings at the PBF control area. The system, constructed 1980, receives sanitary waste from the Support Building, is still in use, and presently receives only nonradiological, nonhazardous sanitary discharges. There is no record of hazardous waste entering the system.		CW
WasteSite: PBF-04 Control Area Oil Tank PBF - 608			WasteType: Chemical	Ref: 589
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-04	Track 2	At PBF-608 Substation Outside Fence. This is a 1000 gallon buried tank that held fuel oil. It has been abandoned and the waste quantity is unknown. We are assuming it is full.	fuel oil	HW

ARA / PBF (WAG 05) Waste Sites

WasteSite: PBF-05 Reactor Area Warm Waste Injection Well PBF - 301			WasteType: Radiological	Ref: 596
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-08	Further Action	This is a well that was used for disposal of reactor cooling water contaminated with LLRW. There is no record of hazardous waste entering the system.	LLRW raw coolant water	CW

WasteSite: PBF-06 Reactor Area Blowdown Pit for Boiler PBF - 621			WasteType: Chemical	Ref: 585
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-03	No Further Action	This is a pit that has received blowdown water from the facilities boiler. There may have been some chemical treatment of the water for corrosion inhibiting purposes, however, the chemicals used should have been relatively non toxic and in extremely small quantities. For the purposes of this scoring we are assuming they are zero.		HW

WasteSite: PBF-07 Reactor Area Oil Drum Storage PER-T-13 PBF -			WasteType: Chemical	Ref: 587
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-03	No Further Action	The area is a concrete pad where drums of used lube oil are stored, awaiting a contractor removal for recycling.		HW

ARA / PBF (WAG 05) Waste Sites

WasteSite: PBF-08 PBF Reactor Area Corrosive Waste Disposal PBF - 731			WasteType: Mixed	Ref: 603
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-12	Five Year Review	Corrosive Waste Disposal Sump Brine Tank. This site is an unlined concrete sump structure. Effluent routed to the sump from 1972 to 1984 included chromium-contaminated water from the PBF Reactor secondary coolant loop and discharges containing resins, sulfuric acid, and sulfur dioxide from the demineralizer system. The sump is still used by the PBF reactor facility. Subsequent to 1984, discharges to the sump did not contain chromium. Sampling conducted before 1991 identified chromium and Cs-137 concentrations in the sump sediments that, if released, would be greater than risk-based levels. Therefore, an interim action was implemented. The interim action included removal of the sump contents, transportation and storage of the contents at the Mixed Waste Storage Facility (MWSF), and decontamination of the sump. The piping from the sump to the evaporation pond (PBF-733) was removed, and effluent from the sump was rerouted to a new disposal tank. Lack of activity on smear samples, collected from the interior of the sump at locations determined by radiological survey results, indicated the presence of fixed contamination. Because the assessment of the site indicated that the interim action had been successful, the site was not retained for quantitative risk analysis.	chromium	HW
			cesium-137	CW
			resins	
			sulfuric acid	
			sulfur dioxide	
			sulfuric acid	HW
5-13	RI/FS	This facility was used as a flow through tank. The waste was demineralizer solution with sulfuric acid, sodium hydroxide, and some chromium. The waste passed either to an injection well or a lagoon. The chromium was converted to trivalent prior to discharge.	sodium hydroxide	
			chromium	

WasteSite: PBF-09 PBF Reactor Area Septic Tank/Drain Field PBF - 728			WasteType: Radiological	Ref: 606
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5/NA	Five Year Review	This facility received sewage from the building at the PBF reactor area. The system was constructed in 1970, is still in use and presently receives only nonradiological, nonhazardous sanitary discharges. There is no record of hazardous waste entering the system.		CW

ARA / PBF (WAG 05) Waste Sites

WasteSite: PBF-10 PBF Reactor Area Evaporation Pond			PBF - 733	WasteType: Mixed	Ref: 603
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5-12	Five Year Review	This site was a Hypalon-lined surface impoundment. Effluent routed to the pond from 1972 to 1984 included chromium-contaminated water from the PBF Reactor secondary coolant loop and discharges containing resins, sulfuric acid, and sulfur dioxide from the demineralizer system. Sulfur dioxide was added to the system to convert chromium (VI) to chromium (III). Subsequent to 1984, discharges to the pond did not contain chromium. In sampling conducted prior to 1991, concentrations of total chromium and Cs-137 were identified in the pond sediments at greater than risk-based levels. Therefore, an interim action was implemented. The 1994 interim action included excavation of sediments from the pond in areas with chromium concentrations greater than 800 mg/kg or Cs-137 concentrations greater than 30 pCi/g. This site will undergo further risk assessment in the future.	resins		HW
			sulfuric acid		CW
			sulfur dioxide		
			chromium		
			cesium-137		
5-13	RI/FS	The pond received water from the reactor demineralizer system. It was contaminated with sulfuric acid and sodium hydroxide (ph neutralized to 6.5 to 7.0) and some chromium that has been reduced to the trivalent state. It is assumed that the acids and bases were all neutralized. The pond is lined with a hypalon liner.	sulfuric acid		HW
			sodium hydroxide		
			chromium		

WasteSite: PBF-11 SPERT I Seepage Pit			PBF - 750	WasteType: Chemical	Ref: 595
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5-08	Further Action	This facility received demineralizer waste water contaminated with sulfuric acid and sodium hydroxide. It is assumed that the acids and bases have neutralized each other.	sulfuric acid		HW
			sodium hydroxide		

ARA / PBF (WAG 05) Waste Sites

WasteSite: PBF-12 SPERT I Leach Pond			PBF - 605	WasteType: Radiological	Ref: 682
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5-02	No Further Action	North East of PBF-605. This facility was a leach pond used to receive radioactively contaminated water from the SPERT I reactor. It was decommissioned in 1982. There is no record of hazardous waste being placed here. Previously called a 'Seepage Pit'.	cesium-137 U-234,235 Co-60 Pu-238 Sr-90		CW
WasteSite: PBF-13 Reactor Area Rubble Pit			PBF -	WasteType: Mixed	Ref: 684
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5-03	No Further Action	NE of Cooling Tower. Area appears to have old construction rubble. Interviews indicated it was used during construction of PBF Reactor. No suspected hazardous materials. Date of usage is unknown.	cadmium, chromium lead, nickel zinc acetone, toluene		CW HW
WasteSite: PBF-14 SPERT II Inactive Fuel Oil Tank			PBF - 612	WasteType: Chemical	Ref: 591
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5-04	No Further Action	The facility is an inactive 500 gallon, buried tank that contained fuel oil. It is no longer active but may still contain some fuel.	fuel oil		HW

ARA / PBF (WAG 05) Waste Sites

WasteSite: PBF-15 Reactor Area Corrosive Waste Injection Well PBF - 302			WasteType: Chemical	Ref: 594
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-08	Five Year Review	This facility received demineralizer waste water from the PBF Reactor. Contaminants included sulfuric acid, sodium hydroxide, and trivalent chromium. The well is 115 feet deep. It is assumed that the acids and bases neutralized each other.	sulfuric acid sodium hydroxide trivalent chromium hydrazine zinc	HW
WasteSite: PBF-16 SPERT II Leach Pond PBF -			WasteType: Mixed	Ref: 597
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-09	RI/FS	This surface impoundment received a discharge of chemical waste from the demineralizer operation and low-level radioactive water from the reactor. The two primary chemicals were sulfuric acid and sodium hydroxide. Small levels of arsenic, cadmium, chromium, lead and mercury have been measured in the pond sediments. It was assumed that the acids and bases are neutralized.	arsenic cadmium chromium lead mercury Silver-108m	HW CW CW
5-12	RI/FS	Soil Contamination. The PBF-16 site is a fenced unlined shallow pond south of the Waste Engineering Development Facility. The pond was used from 1959 to 1964 to dispose of spent sulfuric acid and sodium hydroxide solutions, water softener waste, emergency shower drain water, and discharges from the SPERT-II reactor building floor drains. Currently the only discharge to the pond is clean water from the PBF maintenance shop air compressor. Sampling was conducted in 1982 and 1983 to define the contamination at the site. Contamination was limited to a depth of 4.5 feet.	Cesium-137, Radium-226 Arsenic, Copper Lead, Mercury Selenium, Thallium	HW

ARA / PBF (WAG 05) Waste Sites

WasteSite: PBF-17 PBF SPERT-II Septic Tank and Seepage Pit PBF - 725			WasteType: Radiological	Ref: 691
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5/NA	Five Year Review	The facility is a septic tank utilized for disposal of non-hazardous, domestic type sewage waste. The building was converted to the Waste Engineering Development Facility (WEDF). The system receives sanitary waste from the WEDF, was constructed in 1960, and is still in use. There is no record of hazardous waste placed in the unit and no evidence of contamination was identified.		CW

WasteSite: PBF-19 SPERT III Inactive Fuel Oil Tank PBF - 609			WasteType: Chemical	Ref: 590
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-04	No Further Action	West side of PBF-609. This facility is an abandoned 3000 gallon fuel oil tank. Condition is assumed to be good. There is no liner.	fuel oil	HW

WasteSite: PBF-20 SPERT III Small Leach Pond PBF -			WasteType: Chemical	Ref: 598
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-09	Five Year Review	North of Reactor Building. The pond received demineralizer waste water from the SPERT III Reactor. Wastes received were sulfuric acid and sodium hydroxide. It is assumed that the acids and bases neutralized.	demineralizer waste water sulfuric acid sodium hydroxide	HW

ARA / PBF (WAG 05) Waste Sites

WasteSite: PBF-21 SPERT III Large Leach Pond			PBF -	WasteType: Mixed	Ref: 584
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5-02	Five Year Review	South East of SPERT III. This facility received low level radioactively contaminated water from the SPERT III reactor. There is no record of hazardous waste entering the pond.	chloride, orthophosphate		CW
			sulfate		HW
			Co-60, Cs-137		
			U-234,-235,-238		
WasteSite: PBF-22 SPERT IV Leach Pond			PBF - 758	WasteType: Mixed	Ref: 599
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5-09	Five Year Review	The pond received demineralizer waste water from the SPERT IV reactor. Wastes received included sulfuric acid and sodium hydroxide. Low levels of chromium and lead have been detected in the sediments. It is assumed that the acids and bases are neutralized. The pond also received LLRW water.	demineralizer waste water, arsenic, lead		CW
			sulfuric acid, manganese		HW
			sodium hydroxide		
			chromium, lead, U-234,238		
			Cs-137, Pu-238,239,Th-228,230,232		
WasteSite: PBF-24 SPERT IV Blowdown Pit			PBF - 716	WasteType: Radiological	Ref: 586
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5-03	No Further Action	Adjacent to PBF-716. This facility received radioactively contaminated water from the SPERT IV reactor. No hazardous waste is known to have entered the system.			CW

ARA / PBF (WAG 05) Waste Sites

WasteSite: PBF-25 PBF SPERT-IV Septic Tank and Leach Pit PBF - 727/75			WasteType: Radiological	Ref: 692
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5/NA	Five Year Review	This facility received sewage from the buildings at the SPERT IV facility. The system now receives sanitary waste from the MWSF, was constructed in 1962, and is still in use. There is no record of hazardous waste entering the unit. It was sampled in 1993 and no contaminant levels of metals were above regulatory levels.		CW
5-12	Five Year Review	This sanitary system includes a septic tank and leach pit located SE of the MWSF. The system receives sanitary waste from the MWSF, was constructed in 1962, and is still in use. In a previous assessment of the site, there was no evidence of contamination. In 1994, the site was proposed for reevaluation on the basis of anecdotal information, which indicated that the system may have received waste from a temporary photographic laboratory. Sample results from 1993 indicated that no contaminant levels of metals were above regulatory levels.		CW

WasteSite: PBF-26 SPERT IV Lake Adjacent to PBF-758 PBF - 758			WasteType: Mixed	Ref: 683
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-02	Five Year Review	This facility was used to collect waste water from the SPERT IV reactor facility. The water had no record of radioactive or hazardous chemical contamination.	arsenic lead Aroclor-1245 Cs-137	CW HW

WasteSite: PBF-27 PBF SPERT-III Septic Tank and Seepage Pit PBF - 726			WasteType: Radiological	Ref: 690
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5/NA	Five Year Review	This facility received sewage from the SPERT-III reactor buildings and currently receives waste from the Waste Experimental Reduction Facility. The system was constructed in 1959 and is still in use. There is no record of hazardous waste entering the system and no contamination was found.		CW

ARA / PBF (WAG 05) Waste Sites

WasteSite: PBF-28 PBF Cooling Tower Area and Drainage Ditch PBF -			WasteType: Chemical	Ref: 588
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-03	No Further Action	At the PBF Reactor Area. Consists of an area of surface soils north of the PBF reactor cooling tower (PBF-720) and the drainage ditch south/west of the cooling tower. The PBF reactor cooling tower began service in 1976 and received reactor secondary cooling water from the PBF Reactor (PBF-620) until 1985 when the PBF reactor became inactive. A chromate-based corrosion inhibitor was used in the secondary cooling loop of the PBF reactor until 1984, when the PBF switched to a nonhazardous, phosphate-based corrosion inhibitor. During cooling tower operation aerosol overspray of areas adjacent to the cooling tower and the drainage ditch may have caused contamination of soils with chromium (Cr-III).	chromium	HW
WasteSite: PBF-29 PBF Reactor Area Abandoned Fuel Oil Tank PBF -			WasteType: Chemical	Ref: 603
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-12	No Further Action	The PBF-29 site is the location of an abandoned fuel oil tank located southeast of the PBF reactor building at the northwest corner of parking Area No. 9. This tank serviced a construction building that was demolished in 1971 and the tank was abandoned in place below the building pad. The tank was sampled in 1993 by PBF operations personnel and was found to contain only water. In 1996, the tank was removed. During the removal, no stained soils were visible, VOCs were not detected, and no holes were observed in either the tank or associated piping. The area was backfilled and covered with asphalt. The site was assessed as free of significant contamination from either radiological or hazardous waste constituents. No sampling data gaps were identified in the WAG 5 Work Plan, and the site was not retained for quantitative analysis.	fuel oil	HW

ARA / PBF (WAG 05) Waste Sites

WasteSite: PBF-30 PBF Reactor Area Abandoned Septic System PBF -			WasteType: Radiological	Ref: 603
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-12	Five Year Review	This site is the location of an abandoned septic system southeast of the PBF Reactor building at the northwest corner of Parking Area No. 9. The system includes a 3,785-L septic tank and subsurface drain field that once serviced a construction building. The construction building was demolished in 1971. In an examination of the site, the area of the tank was found to be covered by a temporary storage shed. All plumbing to the tank was closed. The tank contents were sampled, and no radioactivity or hazardous substance was detected above regulatory levels. The site was assessed as free of significant contamination from either radiological or hazardous waste constituents. Future monitoring and control will continue.		CW
WasteSite: PBF-31 SPERT-II Fuel Oil Tank (PBF-732) PBF - 732			WasteType: Chemical	Ref: 603
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
5-12	No Further Action	The site is the historical location of a UST used to supply heating fuel to the WEDF. The tank was installed in 1960 and removed and replaced in 1994. During excavation in 1994, it was discovered that the tank had leaked an unknown quantity of fuel-oil that saturated the surrounding soils and penetrated the underlying basalt. All contaminated soils were removed from the site, however, the product released into the underlying basalt layer could not be recovered. The site was evaluated under the Track I process. Sampling results were below EPA Region 3 risk-based concentrations, therefore no further action is appropriate for this site.		HW

ARA / PBF (WAG 05) Waste Sites

WasteSite: PBF-32 PBF Control Area Fuel Oil Tank			PBF - 742	WasteType: Chemical	Ref: 603
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
5-12	No Further Action	The site is the historical location of a 7,570 L UST used to supply heating fuel to the PBF Control Building (PBF-601). The tank was installed in 1954 and removed and replaced in 1994. During excavation in 1994, it was discovered that the tank had leaked an unknown quantity of fuel oil, saturated the surrounding soils, and penetrated the underlying basalt. All contaminated soils were removed from the site. However, the product released into the underlying basalt layer could not be recovered. The site was evaluated under the Track I process. The initial evaluation eliminated the risk potential for all pathways except ingestion of benzene-contaminated groundwater. Further borehole and vapor sampling indicated that no further action would be necessary for this site.	benzene		HW

RWMC (WAG 07) Waste Sites

WasteSite: RWMC-01 RWMC Drainage and Septic Tank for WM RWM -			WasteType: Radiological	Ref: 633
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
7-11	No Further Action	West of WMF-613. This facility is designed to receive sewage from WMF 613 facility. There are no plans for hazardous waste being placed in it.		CW

WasteSite: RWMC-02 RWMC Septic Tank and Drainfield RWM -			WasteType: Radiological	Ref: 634
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
7-11	No Further Action	For WMF-601, 604. This facility receives sewage from the RWMC buildings. There is no record of hazardous waste entering the system.		CW

WasteSite: RWMC-03 RWMC Septic Tank and Drainfield for SW RWM -			WasteType: Radiological	Ref: 635
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
7-11	No Further Action	North of SWEPP. This facility receives sewage from the SWEPP facility. There is no record of hazardous waste entering the system.		CW

RWMC (WAG 07) Waste Sites

WasteSite: RWMC-04 Non-TRU Contaminated Waste Pits/Trenc RWM -			WasteType: Radiological	Ref: 630
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
7-03	RI/FS	Site includes Pits 7 and 8. Site includes trenches 18, 21 through 25, 27 through 31, 33, 35 through 38, 40 through 44, 46, 50, 53, 54, 57, and 58. Although Pit 16 exhibits no evidence of containing TRU wastes in concentrations greater than 10nCi/g, it is not being placed in OU 7-03 because it is completely surrounded by disposal sites belonging to OU 7-13 "TRU Pits and Trenches", and is therefore placed in OU 7-13. Radionuclide data are available from shipping records maintained in the Radioactive Waste Management Information System (RWMIS) database. Although shipping records verify the existence of non-radioactive hazardous substances, no quantitative data or qualitative data of practical utility are available. Track 2 investigation is recommended for this site.	LLRW	CW

WasteSite: RWMC-04 PAD-A			RWM -	WasteType: Mixed	Ref: 636
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.	
7-12	RA	Pad A is an above ground disposal area for low-level radioactive waste within the Subsurface Disposal Area (SDA) at the RWMC. Pad A, located in the north-central portion of the SDA, was constructed in 1972 for disposal of packaged mixed waste (LLMW) primarily from the RFETS. The wastes were solid, packaged in 55-gallon drums and 4x4x7 feet plywood boxes with polyethylene liners. Wastes were placed from 1972 to 1978. In 1978, closure of Pad A was completed by placing plywood and/or polyethylene over many of the exposed containers. The waste pile was then covered with a 3 foot thick soil layer and seeded.	potassium, thorium, uranium, plutonium, americium sodium nitrate, potassium nitrate, sodium chloride potassium chloride, sodium sulfate, sodium hydrox. hydroxide, beryllium beryllium oxide	HW CW	

RWMC (WAG 07) Waste Sites

WasteSite: RWMC-04 Pit 9 Process Demonstration			RWM -	WasteType: Mixed	Ref: 700
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
7-10	RI/FS	Pit 9 is located in the northeast corner of the SDA at the RWMC and cannot be easily distinguished from the surface since soil was placed over the pit. The inventory of wastes buried within Pit 9 was estimated from available shipping records and the Radioactive Waste Management Information System (RWMIS). The waste within Pit 9 is primarily TRU waste generated from RFETS and additional wastes (LLRW) from waste generators located at the INEEL. The waste consists of drums of sludge, assorted solid waste, and cardboard boxes containing empty contaminated drums. Interim action is recommended along with other long-term clean-up activities at RWMC. Full scale remediation of Pit 9 will not be completed until 2003.	americium, thorium, yttrium, barium, cesium		HW
			strontium, uranium, plutonium, cobalt, beryllium		CW
			asbestos, tetrachloroethylene, trichloroethane		
			calcium silicate, carbon tetrachloride, mercury		
			potassium/sodium nitrate, lithium, lead, zirconium		
WasteSite: RWMC-04 SDA Acid Pit			RWM -	WasteType: Mixed	Ref: 626
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
7-02	RI/FS	The Acid Pit, located within the boundaries of the SDA at RWMC, received radioactive liquid waste from 1954 through 1961. Sampling occurred in 1989 with the drilling of 6 boreholes and the Track 2 investigation occurred in 1991. It was recommended that the Acid Pit be included in the SDA Pits and Trenches RI/FS.	mercury		CW
			LLRW		HW
WasteSite: RWMC-04 SDA Soil Vault Rows			RWM -	WasteType: Radiological	Ref: 625
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
7-01	RI/FS	OU 7-01 is the Soil Vault Rows at the Radioactive Waste Management Complex (RWMC) Subsurface Disposal Area (SDA). Soil Vault Rows are cylindrical borings drilled into surficial soils at the SDA used for the disposal of remote-handled solid radioactive waste. Once waste containers have been placed inside a soil vault, the vault is covered with sufficient soil to ensure that the radiation level above the soil vault is less than 1 mR/hr, (based on discussions with operations personnel, most soil vaults have at least 6 feet of soil cover).			CW

RWMC (WAG 07) Waste Sites

WasteSite: RWMC-04 TRU Pits/Trenches (OU 7-03)			RWM -	WasteType: Mixed	Ref: 637
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
7-13	RI/FS	OU 7-13 and 7-14 will include the comprehensive investigation to evaluate cumulative risk associated with WAG 7. Buried waste will be the focus of the comprehensive study. The Administrative and Operations Area does not contain any historical course that may generate risk. The TSA is an active storage facility. When the facility is closed, appropriate measures will be implemented to satisfy the requirements of both RCRA and CERLA. These requirements include clean closure of the aboveground structures and a risk-based closure of any contaminated subsurface areas. The primary threat to environmental media such as the aquifer results from contaminant migration from buried waste. Therefore, future remedial alternatives will focus on buried waste and contaminants that contribute to most of the risk. The schedule for the draft record of decision for the comprehensive study is December 2002.			HW
					CW

WasteSite: RWMC-05 TSA Releases			RWM -	WasteType: Mixed	Ref: 632
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
7-09	RI/FS	Transuranic Storage Area (TSA) Pads 1, 2, 3, R, and Intermediate Level Transuranic Storage Facility (ILTSF) Vaults. The TSA is a plot adjacent to the RWMC SDA established in 1970 for retrievable storage of containerized TRU waste. The TSA is an active operating facility. Activities that are conducted in the TSA include retrievable storage and examination of TRU waste in preparation for shipment to the WIPP or disposal as LLRW. TSA releases include both radionuclide, inorganic & organic releases. Insufficient data is available to base a decision. Additional investigation should be evaluated under the WAG-wide RI/FS.	Pu-238		HW
					CW
			Pu-239/240 organic inorganic		

RWMC (WAG 07) Waste Sites

WasteSite: RWMC-A Air Pathway for RWMC			RWM -	WasteType: Mixed	Ref: 627
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
7-04	RI/FS	The Air Pathway Unit at the RWMC is unlike most other OUs in that it is a pathway, not a contaminant site. The Air Pathway OU does not include the buried waste in the pits, trenches and soil vaults of the SDA. However, the buried wastes are considered to be the source of contaminants to the Air Pathway for the purposes of evaluating risks associated with airborne contaminants from the SDA. The SDA has received waste since 1952 from various waste generators. The primary waste generator for TRU waste was DOE's RFETS. Waste was also generated from on-site operations at ICPP, TRA, TAN, ANL-W and NRF. The types of waste disposed of are LLRW, TRU, LLMW, HW and TRUMixed. Waste is usually buried in boxes or drums in physical forms such as trash, metal, and sludge. Wastes from RFETS include sludges.	carbon tetrachloride		HW
			trichloroethylene		CW
			tetrachloroethylene		
			1,1,1 trichloroethane		
WasteSite: RWMC-B Surface Water Pathways & Sediments			RWM -	WasteType: Radiological	Ref: 628
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
7-05	RI/FS	This unit will continue to be evaluated within the WAG 7 Comprehensive RI/FS.			CW
WasteSite: RWMC-C Groundwater Pathway			RWM -	WasteType: Radiological	Ref: NA
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
7-06	RI/FS	This unit will continue to be evaluated within the WAG 7 Comprehensive RI/FS.			CW

RWMC (WAG 07) Waste Sites

WasteSite: RWMC-D Vadose Zone (RAD/Metals)			RWM -	WasteType: Mixed	Ref: 629
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
7-07	R/FS	OU 7-07 is defined as the radionuclides and metals contamination within the unsaturated subsurface region beneath the RWMC. 7-07 is considered to encompass the undisturbed surficial alluvium directly beneath the disposal area and the basalts and sedimentary interbeds between the ground surface and the Snake River Plain Aquifer. The potential contaminants in this OU include radioactive constituents and metals which have migrated from the waste sources (pits, trenches, soil vaults) into the vadose zone. This OU zone does not include the pits, trenches, and soil vaults where waste has been disposed. However, the buried wastes are considered to be the source of contamination to the vadose zone and, as a result, are included in this Track 2 Preliminary Scoping Package (PSP) as the contaminant source.	Am-241		HW
			Pu-238		CW
			U-235		

WasteSite: RWMC-E Vadose Zone Organics			RWM -	WasteType: Chemical	Ref: 631
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
7-08	R/FS	This operable unit consists of the vadose zone beneath and within the immediate vicinity of the RWMC. Organic contamination in the vadose zone is defined as that part of the vadose zone beneath and within the immediate vicinity of the RWMC where there are organic contaminants in a vapor state. As such, the OU extends from the ground surface to the top of the Snake River Plain Aquifer. The OU does not directly include the disposal pits of the SDA. The presence of organic contaminants in the vadose zone is a result of the burial at the SDA of containerized organic wastes from RFETS.	calcium silicate		HW
			carbon tetrachloride, tetrachloroethylene		
			1,1,1-trichloroethane, trichloroethylene		

RWMC (WAG 07) Waste Sites

WasteSite: RWMC-F Comprehensive			RWM	WasteType: Mixed	Ref: 637
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
7-14	RI/FS	OU 7-13 and 7-14 will include the comprehensive investigation to evaluate cumulative risk associated with WAG 7. Buried waste will be the focus of the comprehensive study. The Administrative and Operations Area does not contain any historical course that may generate risk. The TSA is an active storage facility. When the facility is closed, appropriate measures will be implemented to satisfy the requirements of both RCRA and CERCLA. These requirements include clean closure of the aboveground structures and a risk-based closure of any contaminated subsurface areas. The primary threat to environmental media such as the aquifer results from contaminant migration from buried waste. Therefore, future remedial alternatives will focus on buried waste and contaminants that contribute to most of the risk. The schedule for the draft record of decision for the comprehensive study is December 2002.			CW

HW

NRF (WAG 08) Waste Sites

WasteSite:	NRF-01 Field Area North of S1W	NRF -	WasteType: Radiological	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-05	Five Year Review	This site is a CERCLA Municipal Landfill. The remedy for this site included containment with a native soil cover, soil gas monitoring, groundwater monitoring, periodic inspection and maintenance, and maintaining institutional controls.		CW

WasteSite:	NRF-02 Old Ditch Surge Pond	NRF -	WasteType: Mixed	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-08	No Further Action	NRF-02 is a pond area that was connected to the industrial waste ditch system. The exterior industrial waste ditch (OU 8-07) was evaluated in a previous RI/FS and a no action ROD was signed for the unit. Low-levels of radioactivity and slightly elevated levels of metals were detected in the pond. The pond was estimated to have been used from 1959 to 1985. The pond became contaminated with very low levels of radioactivity when water with trace amounts of cobalt-60 and cesium-137 was released to the ditch in the late 1960s. Accumulation of radioactivity in the ditch sediments produced slightly elevated levels, but below remediation goals.	cobalt-60 cesium-137	HW CW

WasteSite:	NRF-03 ECF Gravel Pit	NRF -	WasteType: Mixed	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-01	No Further Action	NRF-03 is an excavated pit that provided clean fill for construction projects. The east end of the pit has been used for disposal of construction debris such as gravel, concrete, metal, and wood. The southeast portion of the pit was used for 3 months in 1985 for routine nonhazardous discharge water. The pit has also been used as a gunnery range for security personnel. Soil sampling showed only slightly elevated amounts of metals.		HW CW

NRF (WAG 08) Waste Sites

WasteSite: NRF-04 Top Soil Pit Area	NRF -	WasteType: Radiological	Ref: 650
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8/NA	No Further Action	The Top Soil Pit Area (SWMU #4) is located near the southwest corner of the NRF. The site consists of a small gravel pit and rubble pile area. The gravel pit is approximately 250 ft. long, 125 ft. wide, and 12 ft. deep. Several rubble piles are located west of the gravel pit. The piles are scattered throughout a narrow band approximately 50 to 100 ft. wide and 500 to 700 ft. long. Construction of the S1W and A1W prototypes was initiated in 1950 and 1956 respectively. These activities generated inert construction waste including rocks, topsoil, small pieces of wood, and concrete which was disposed in the rubble pile area of the SWMU. In approximately 1960, efforts were initiated to remove some of the rubble covering the ground surface in and around the SWMU to accommodate the construction of the S5G prototype. This action cleared the area of almost all construction rubble. Construction of the S5G prototype was initiated in 1961. Excavation for footings required blasting to remove rock. Some of the rock generated from this blasting was disposed in the rubble pile of the SWMU. The rubble piles have remained untouched since approximately 1962.		CW

WasteSite: NRF-05 West Landfill	NRF -	WasteType: Radiological	Ref: 649
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8/NA	No Further Action	The West Landfill (SWMU #5) is located outside of the west boundary security fence. This site parallels the fence starting at about 250 feet from the southwest corner and extends northward for about 700 feet. This landfill is 200 feet wide and not more than 3 feet deep. The area was used for the disposal of construction wastes including concrete and metal. No evidence of hazardous waste is present. This activity generated inert construction waste including rocks, topsoil, small pieces of wood, and concrete which was disposed in the area of the SMWU.		CW

WasteSite: NRF-06 Southeast Landfill	NRF -	WasteType: Radiological	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-01	No Further Action	Rubble pile from past construction projects. The rubble piles consist primarily of soil, concrete, metal, and wood. No hazardous source is present.		CW

NRF (WAG 08) Waste Sites

WasteSite:	NRF-07 East Landfill	NRF -	WasteType: Radiological	Ref: 648
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8/NA	No Further Action	The East Landfill Area (SWMU #7) is located near the Northeast corner of the NRF. This site consists of a large flat sage brush covered area. The SWMU is approximately 1,200 feet long, 400 feet wide at the widest with an average width of 150 feet. This SWMU has about 15 large pieces of concrete, and about thirty different places where concrete transportation trucks have dumped their excess concrete in piles or long narrow stringers. The East Landfill has been used on and off since 1950 for the disposal of excess concrete.		CW

WasteSite:	NRF-08 North Landfill	NRF -	WasteType: Radiological	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-01	No Further Action	Rubble pile from past construction projects. The rubble piles consist primarily of soil, concrete, metal, and wood. No hazardous waste source is present.		CW

WasteSite:	NRF-09 Parking Lot Runoff Leaching Trenches	NRF -	WasteType: Chemical	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-02	No Further Action	NRF-09 is comprised of three parking lot runoff trenches that allow water from spring thaws and heavy rainfall to drain from the parking lot. Soil sampling showed elevated amounts of lead and silver; however, risk is low.	lead silver	HW

NRF (WAG 08) Waste Sites

WasteSite: NRF-10 Sand Blasting Slag Trench			NRF -	WasteType: Chemical	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-03	No Further Action	NRF-10 is an area where sandblast grit from paint removal operations in the 1950s was deposited. The sandblast grit was removed in 1990. Verification sampling performed in 1991 showed elevated levels of several metals in the soil. Arsenic, chromium, and lead were detected at elevated concentrations. A Track I risk assessment was performed that calculated risk-based soil concentrations for residential and occupational scenarios. Although chromium and arsenic were detected in individual samples above risk-based soil concentrations, the risk assessment used very conservative estimates and a risk management decision was made that actual risks are acceptable and no additional action is required.	chromium		HW
			Arsenic		
			lead		
WasteSite: NRF-11 S1W Tile Drainfield and L-shaped Sump			NRF -	WasteType: Radiological	Ref: 702
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-08	RI/FS	This area consists of a below surface concrete L-shaped sump and drainfield pipes. The drainfield was estimated to have been used from 1953 to 1955. The L-shaped sump portion was used until 1960 as part of the sewage system. Although contamination above recommended remediation goals was not found during past sampling at the drainfield, known discharges of radioactive water occurred. Results of sampling within the sump and along the piping leading to the sump detected cesium-137. Removal of the sump and drainfield piping would be the only adequate way to assess contamination.	cesium-137		CW
					De
WasteSite: NRF-12A Underground Piping to Leaching Pit			NRF -	WasteType: Radiological	Ref: 702
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-08	RI/FS	NRF-12 has been redefined as two separate areas for evaluation purposes. 12A consists of an underground pipe leading from the S1W retention basins (NRF-17) to a below surface concrete manhole. This pipe is known to have leaked on occasion. From the manhole, a perforated pipe used for draining or leaching purposes ran 400 feet to a leaching pit constructed at the end of the pipe. NRF-12B was a pond area where radioactive water was allowed to leach into the subsurface or evaporate. The underground perforated piping (12A) and leaching pit (12B) were used from 1955 through 1961. The pond area has since been filled in and covered with asphalt.	cesium-137		HW
			strontium-90		CW

NRF (WAG 08) Waste Sites

WasteSite: NRF-12B S1W Leaching Pit			NRF -	WasteType: Mixed	Ref: 702
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-08	RI/FS	NRF-12 has been redefined as two separate areas for evaluation purposes. 12A consists of an underground pipe leading from the S1W retention basins (NRF-17) to a below surface concrete manhole. This pipe is known to have leaked on occasion. From the manhole, a perforated pipe used for draining or leaching purposes ran 400 feet to a leaching pit constructed at the end of the pipe. NRF-12B was a pond area where radioactive water was allowed to leach into the subsurface or evaporate. The underground perforated piping (12A) and leaching pit (12B) were used from 1955 through 1961. The pond area has since been filled in and covered with asphalt.	cesium-137		CW
			strontium-90		HW
			lead		
WasteSite: NRF-13 S1W Temporary Leaching Pit			NRF -	WasteType: Mixed	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-08	No Further Action	This site is the location of a temporary radioactive discharge pit. A one-time release of 28,000 gallons of an oily radioactive effluent was made to the pit in 1956. The bottom of the pit was filled with sand and gravel to allow percolation of the liquid. The pit was later completely filled with excavated soil. Sampling performed in 1991 in the estimated location of the pit showed very small amounts of cobalt-60 and cesium-137 and slightly elevated amounts of arsenic. The primary potential COC is cesium-137, but it was detected below background level and well below remediation goals.	cobalt-60		HW
			cesium-137		CW
			arsenic		
WasteSite: NRF-14 S1W Leaching Beds			NRF -	WasteType: Radiological	Ref: 702
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-08	RI/FS	This area consists of two leaching beds; one constructed in 1960 and the other in 1963. These beds were open ponds that collected radioactive water and allowed the water to leach into the subsurface or evaporate. The majority (78%) of the radioactive water releases from the Naval Reactors Facility were to Sites NRF-14 and NRF-19 (A1W leaching bed). The beds were used until 1979. Large cobblestone was later placed in the leaching beds.	cesium-137		CW
			strontium-90		

NRF (WAG 08) Waste Sites

WasteSite: NRF-15 S1W Acid Spill Area			NRF -	WasteType: Chemical	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-03	No Further Action	NRF-15 and 20 are acid spill areas. Elevated levels of metals are present at each site. NRF-20 included lead contaminated soil above recommended screening level for lead cleanup. A soil removal action was performed at NRF-20 after receiving public comment on the proposed action. The only contaminants remaining at elevated levels after the removal action are mercury and lead (which is now below the remediation goal of 400 ppm). Sampling at NRF-15 showed elevated levels of chromium, lead, mercury, and nickel. The concentrations at both sites were determined to be below risk-based concentrations.	chromium		HW
			lead		
			mercury		
			nickel		
WasteSite: NRF-16 Radiography building Collection Tanks			NRF -	WasteType: Radiological	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-08	No Further Action	NRF-16 is the radiography building collection tank area. The building was originally a decontamination building used for cleaning radioactive equipment. The decontamination solutions were sent to two USTs. These tanks were used from 1954 to 1960. Adjacent to the building was a concrete pad that was used as a radioactive material storage area. The concrete pad was removed in 1979. The tanks were removed in 1993. There was no indication of leakage from the tanks and concrete pad from past spills that occurred in the area. Sampling performed during the RI/FS showed radioactivity levels below remediation goals.			CW
					De
WasteSite: NRF-17 S1W Retention Basins			NRF -	WasteType: Radiological	Ref: 702
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-08	RI/FS	The retention basins are concrete basins partially below the surface that collected radioactive water from various facilities. This was a storage area prior to releasing the water to NRF-11, -12, -14. The basins are known to have leaked an est. 33,000 gal. on one occasion. Sampling has been deferred until the basins are removed. The soil beneath the basins will be remediated if necessary to the cleanup criteria established in the ROD.	cesium-137		HW
			strontium-90		CW

NRF (WAG 08) Waste Sites

WasteSite: NRF-18 S1W Spray Products	NRF -	WasteType: Chemical	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-03	No Further Action	The spray ponds are large concrete structures that contained cooling water for plant operations. At one time, a chromium based corrosion inhibitor was used in the water. Leakage and overspray from the ponds caused elevated chromium concentration in the surrounding soil. The risk assessment evaluation assumed the spray ponds would remain in place limiting exposure to the soil below the basins if any contamination was present. The resulting qualitative risk assessment showed a low risk, but additional evaluation of the groundwater pathway was considered appropriate. The hydrogeologic study performed for the Comprehensive RI/FS concluded no significant impact to the groundwater from the spray ponds.	chromium	HW

WasteSite: NRF-19 A1W Leaching Bed	NRF -	WasteType: Radiological	Ref: 702
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-08	RI/FS	This area consists of an underground leaching bed. A perforated pipe runs through an engineered leaching bed that consists of various layers of gravels and sand. NRF-19 and NRF-14 represent the areas where the majority (78%) of radioactive water was released at the Naval Reactors facility.	cesium-137 strontium-90	CW

WasteSite: NRF-20 A1W Acid Spill Area	NRF -	WasteType: Chemical	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-03	No Further Action	NRF-15 and 20 are acid spill areas. Elevated levels of metals are present at each site. NRF-20 included lead contaminated soil above recommended screening level for lead cleanup. A soil removal action was performed at NRF-20 after receiving public comment on the proposed action. The only contaminants remaining at elevated levels after the removal action are mercury and lead (which is now below the remediation goal of 400 ppm). Sampling at NRF-15 showed elevated levels of chromium, lead, mercury, and nickel. The concentrations at both sites were determined to be below risk-based concentrations.	lead mercury chromium nickel	HW

NRF (WAG 08) Waste Sites

WasteSite: NRF-21A Old Sewage Basin			NRF -	WasteType: Radiological	Ref: 702
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-08	RI/FS	NRF-21 has been redefined as two separate areas for evaluation purposes. 21A consists of a former sewage basin area. The basin was an open pond used for non-radiological discharges. Cross-contamination with the radiological discharge system occurred in 1956. NRF-21A was used from 1956 to 1960. NRF-21B is referred to as a sludge drying bed and consists of a concrete bottom bed below surface level. 21B received sewage sludge from the sewage system and was cross-contaminated by the radioactive discharge system when 21A became contaminated. NRF-21B was used from 1951 to 1960.	cesium-137		CW
WasteSite: NRF-21B Sludge Drying Bed			NRF -	WasteType: Radiological	Ref: 702
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-08	RI/FS	NRF-21 has been redefined as two separate areas for evaluation purposes. 21A consists of a former sewage basin area. The basin was an open pond used for non-radiological discharges. Cross-contamination with the radiological discharge system occurred in 1956. NRF-21A was used from 1956 to 1960. NRF-21B is referred to as a sludge drying bed and consists of a concrete bottom bed below surface level. 21B received sewage sludge from the sewage system and was cross-contaminated by the radioactive discharge system when 21A became contaminated. NRF-21B was used from 1951 to 1960.	cesium-137		CW
WasteSite: NRF-22 A1W Painting Locker French Drain			NRF -	WasteType: Chemical	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-03	No Further Action	NRF-22 is the location of a former french drain that may have received paints, solvents, and possibly mercury. A removal action was performed after receiving public comment on the proposed action. Sampling performed after the removal action showed that elevated levels of lead and mercury remained. The excavated hole was 12 feet deep and was grouted to the surface eliminating all exposure pathways. The qualitative risk assessment after the removal action determined the risk to be low.	paints		HW
			solvents		
			mercury		

NRF (WAG 08) Waste Sites

WasteSite: NRF-23 Sewage Lagoons			NRF -	WasteType: Mixed	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-03	No Further Action	The lagoons are open rectangular ponds. Sampling has shown elevated levels of metals and radionuclides and only trace amounts of organics. A Track 1 investigation recommended this site be included in the WAG 8 RI/FS primarily due to detectable amounts of radionuclides. The COCs included arsenic, mercury, and cesium-137. The risk assessment evaluation for a future resident assumed an institutional control period of 100 years. The risk assessment used very conservative estimates and a risk management decision was made that the actual risks are acceptable and considerably lower than calculated so that no additional action is required.	arsenic		CW
			mercury		HW
			cesium-137		

WasteSite: NRF-24 NRF Demineralizer/Neutralization Facility			NRF -	WasteType: Chemical	Ref: 647
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8/NA	No Further Action	The Demineralizer and Neutralization facility is located on the NRF site. The unit consists of two large storage tanks containing acid and base, ion exchange tanks with the appropriate anionic and cationic resins, and two large neutralization tanks used to buffer ion exchange regenerant solutions prior to discharge to the Industrial Waste Ditch. The facility is used to produce de-ionized water for NRF. Ion exchange regenerant solutions are stored in the neutralization tanks and are buffered to a pH greater than 2.0 and less than 12.5 prior to final discharge. There is no evidence of hazardous wastes at the facility. The facility was built about 1960 and has operated for 30 years. Although the tanks store acid and bases, there is no evidence of any spills of hazardous materials at the facility from past operations. All the tanks are sealed and are either surrounded by gravel berms or have a concrete floor beneath them for collection purposes in case of a spill. Since the acid used is sulfuric acid, surface samples were taken and tested for sulfates and sulfites as well as pH. All samples were within the limits established by current legislation and were comparable to background levels.	sulfuric acid		HW

NRF (WAG 08) Waste Sites

WasteSite: NRF-25 Chemical Waste Storage Pad			NRF -	WasteType: Chemical	Ref: 646
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8/NA	No Further Action	The CWSP is located in the southwest corner of NRF. The CWSP is an asphalt pad measuring 40 feet by 60 feet and is surrounded by asphalt berms on three sides: north, south, and east. The pad is sloped to the east so that liquids spilled on the pad (if any) are contained. The pad is further divided by asphalt berms into three equal area bays. The CWSP was constructed in 1980 and used until 1985 to store containerized hazardous wastes until sufficient quantities had accumulated to facilitate economical shipments of the hazardous waste to off-site facilities. Only one spill has been documented. The spill was sulfuric acid and was immediately neutralized. A variety of hazardous constituents have been stored on the pad including corrosive wastes, dilute solutions of heavy metals (EP toxic), ignitable, and F listed wastes. Currently, no containerized hazardous wastes are being stored on the pad. All hazardous wastes from the CWSP have been disposed of in licensed disposal facilities and the pad is now being used for storage of waste oil.			HW

WasteSite: NRF-26A Industrial Waste Ditch			NRF -	WasteType: Radiological	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-07	No Further Action	This site is an industrial waste ditch that received and continues to receive discharges from various facilities at the Naval Reactors Facility. A remedial investigation was performed for this site.			CW

NRF (WAG 08) Waste Sites

WasteSite: NRF-26B Interior Industrial Waste Ditch			NRF -	WasteType: Radiological	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-09	No Further Action	This unit consists of the interior industrial waste ditch system. The interior waste ditch system is comprised of a network of culverts, pipes, and uncovered drainage ditches with a combined length of 23,000 feet. The system collected discharges from prototype operations, support operational activity, and storm water. The interior waste ditch has been used since 1953. Various modifications to the ditch system have been made throughout the years. The ditch may have received small amounts of hazardous constituents from cooling systems, photographic operation, and laboratory operations. No hazardous constituents have been discharged since 1985. Contaminants of concern included various metals, organics, and radionuclides (cesium-137 and cobalt-60). A track 2 assessment was performed on this unit. The calculated risks were within the target risk range and are considered by the agencies to be acceptable.	cesium-137		CW
			cobalt-60		

WasteSite: NRF-27 Main Transformer Yard			NRF -	WasteType: Chemical	Ref: 645
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8/NA	No Further Action	Unit 27 is the main transformer yard which is located on the west side of NRF. The transformer yard is bordered on the west by Icefish Ave. and Antietam Ave. on the south. The east and north boundaries are enclosed by buildings. The transformer yard is surrounded by fencing on all sides. The transformer yard was moved to this location in 1958 and has remained the same to the present. The area covers 200 ft. by 300 ft. consisting of power transformers. In 1988 EG&G Power Management initiated changeout or replacement of transformers and oil possibly containing PCBs. The transformer yard was surveyed and released as PCB free. Visual inspection and historical data indicate no known spills or releases in this site.			HW

NRF (WAG 08) Waste Sites

WasteSite: NRF-28 A1W Transformer Yard			NRF -	WasteType: Chemical	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-04	No Further Action	Past petroleum product (oil) release. The area was cleaned, but some residual contamination exists. COCs include polychlorinated biphenyls (PCBs), total petroleum hydrocarbons, benzene, toluene, ethylbenzene, and xylene. Each contaminant was determined to be below risk-based concentrations.	polychlorinated biphenyls (PCBs) total petroleum hydrocarbons benzene, ethylbenzene toluene xylene		HW
WasteSite: NRF-29 S5G Oily Waste Spill			NRF -	WasteType: Chemical	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-04	No Further Action	Past petroleum product (oil) release. The area was cleaned, but some residual contamination exists. COCs include polychlorinated biphenyls (PCBs), total petroleum hydrocarbons, benzene, toluene, ethylbenzene, and xylene. Each contaminant was determined to be below risk-based concentrations.	polychlorinated biphenyls (PCBs) total petroleum hydrocarbons benzene, ethylbenzene toluene xylene		HW
WasteSite: NRF-30 Gate House Transformer			NRF -	WasteType: Chemical	Ref: 644
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8/NA	No Further Action	Unit 30 is located on the west side of the NRF gatehouse. The transformer was installed in the early 1960s and removed in 1988 during facility upgrades. Boundaries include the NRF perimeter fence on the south and Antietam Avenue on the north. The area is about 10 ft. by 20 ft. consisting of a soil and grass covered area. In 1988 the transformer was removed due to construction and modification of the NRF gatehouse. The removal and disposal was completed by EG&G Inc. Power Management. Visual inspection of the site indicates no leakage from the transformer, and no evidence of PCB wastes. Construction activities have cleared the area of any trace of the transformer or pole site.			HW

NRF (WAG 08) Waste Sites

WasteSite: NRF-31 A1W Oily Waste Spill			NRF -	WasteType: Chemical	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-04	No Further Action	Past petroleum product (oil) release. The area was cleaned, but some residual contamination exists. COCs include polychlorinated biphenyls (PCBs), total petroleum hydrocarbons, benzene, toluene, ethylbenzene, and xylene. Each contaminant was determined to be below risk-based concentrations.	polychlorinated biphenyls (PCBs) total petroleum hydrocarbons benzene, ethylbenzene toluene xylene		HW
WasteSite: NRF-32 S5G Basin Sludge Disposal Bed			NRF -	WasteType: Mixed	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-08	No Further Action	NRF-32 is an area where sludge from a cleaning of the S5G basin was disposed. The sludge may have contained small amounts of radioactivity. The estimated maximum volume of sludge disposed to the area is 3,000 cubic feet. Sampling performed during the RI/FS did not show any elevated levels of radioactivity. Arsenic was detected at a slightly elevated level. No contaminants were detected above remediation goals.	arsenic		HW
					CW
WasteSite: NRF-33 South Landfill			NRF -	WasteType: Radiological	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-01	No Further Action	Rubble pile from past construction projects. The rubble piles consist primarily of soil, concrete, metal, and wood. No hazardous source is present.			CW

NRF (WAG 08) Waste Sites

WasteSite: NRF-34 Old Parking Lot Landfill		NRF -	WasteType: Radiological	Ref: 643
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8/NA	No Further Action	NRF 34 is located on the east side of Washington Blvd. at the entrance to the NRF parking lot. The boundaries to this site are distinct on three sides and desert to the south end. The dates as to when excess materials were dumped to this site are uncertain. Visual inspection of this area indicates only surface disposal of construction debris occurred at this site. Interviews with former employees did not identify any waste disposal activities in this area.		CW

WasteSite: NRF-35 Lagoon Landfill #1		NRF -	WasteType: Radiological	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-06	No Further Action	This site is a past landfill area or suspected landfill area.		CW

WasteSite: NRF-36 Lagoon Landfill #2		NRF -	WasteType: Radiological	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-06	No Further Action	This site is a past landfill area or suspected landfill area.		CW

NRF (WAG 08) Waste Sites

WasteSite: NRF-37 Old Painting Booth			NRF -	WasteType: Radiological	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-02	No Further Action	NRF-37 is the former location of a temporary painting booth and storage area. The area was used from approx. 1963 to 1970. Soil sampling showed no detectable solvents or elevated amounts of metals. Therefore, no hazardous source is present.		CW

WasteSite: NRF-38 ECF French Drain			NRF -	WasteType: Radiological	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-02	No Further Action	NRF-38 is a precast manhole that received steam condensate from the site steam system. The condensate would evaporate or infiltrate into the soil. The manhole is estimated to have been used from 1958 to the 1980s. No hazardous source is present.		CW

WasteSite: NRF-39 Old Radiography Area			NRF -	WasteType: Radiological	Ref: 642
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8/NA	No Further Action	NRF 39 is located 20 feet northwest of the north gate of the NRF perimeter. The boundaries to this site are not distinct due to the elimination of the building. The building and area were used during the construction of S1W and A1W plants. During the late fifties and early sixties, the area was used for radiography of materials for these plants. After the plant construction was finished the building was later used for storage, until the building was dismantled in the late 1960s. Visual inspection of the area indicates no surface disposal or waste burial of any kind occurred at this site. Interviews with former employees did not identify any waste disposal activities in this area.		CW

NRF (WAG 08) Waste Sites

WasteSite: NRF-40 Lagoon Construction Rubble			NRF -	WasteType: Radiological	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-01	No Further Action	NRF-40 is a soil pile from an expansion project to enlarge the current sewage lagoons. No hazardous waste source is present.			CW

WasteSite: NRF-41 East Rubble Area			NRF -	WasteType: Radiological	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-01	No Further Action	Rubble pile from past construction projects. The rubble piles consist primarily of soil, concrete, metal, and wood. No hazardous waste source is present.			CW

WasteSite: NRF-42 Old Sewage Effluent Ponds			NRF -	WasteType: Mixed	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-02	No Further Action	NRF-42 is the location of a former temporary sewage effluent pond used in the 1950s. There is no evidence that a hazardous source exists at the site, but elevated amounts of metal, semi-volatile organic, and low-level radionuclide contaminants may be present based on past sampling performed in the current sewage lagoons. Based on average concentration data from the current sewage lagoons, this site does not represent a significant groundwater threat. The site is currently covered with a 10 foot layer of soil, thus limiting ingestion or direct contact with any contaminants, if present.			HW

CW

NRF (WAG 08) Waste Sites

WasteSite: NRF-43 Seepage Basin Pumpout Area			NRF -	WasteType: Radiological	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-08	No Further Action	NRF-43 represents an area where the contents of NRF-21 (Old Sewage Basin) were pumped out. NRF-21 was a sewage basin that was pumped out to NRF-43 in 1958. Past sampling has detected some radioactivity in the pump out area. Arsenic and cesium-137 were detected at slightly elevated levels during sampling performed during the Comprehensive RI/FS. Plutonium-239 and carbon-14 were also detected during RI/FS sampling. The risk assessment evaluation showed an acceptable risk.	arsenic cesium-137 plutonium-239 carbon-14	CW

WasteSite: NRF-44 S1W Industrial Wastewater Spill Area			NRF -	WasteType: Radiological	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-04	No Further Action	This site is an area where wastewater was discharged between 1954 and 1959. The discharges included surface water runoff, steam condensate, cooling water, and water from an oil-water separator. No hazardous source is present.		CW

WasteSite: NRF-45 Site Incinerator			NRF -	WasteType: Chemical	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-03	No Further Action	This site is the former location of an incinerator used to burn outdated documents. The incinerator was used at this location from 1985 to 1992. Barium, silver, and zinc were detected at elevated levels during sampling of ash from the incinerator. The concentrations were determined to be below risk-based concentrations for the occupational and residential scenarios. The qualitative risk assessment for the site was determined to be low.	barium silver zinc	HW

NRF (WAG 08) Waste Sites

WasteSite: NRF-46 Kerosene Spill			NRF -	WasteType: Chemical	Ref: 641
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8/NA	No Further Action	NRF Unit 46 is located on the east entrance to the South Gravel Pit. The South Gravel Pit was used as a staging area for making asphalt to repair roads inside NRF. The actual dates of usage are March of 1987 to September of 1988. The unit has boundaries on all four sides. The boundary to the east and the south is a railspur from NRF to the site main line. The west boundary is pit fifteen feet deep and a wall of soil and lava rock. The north boundary is the south security fence of NRF.	kerosene		HW
WasteSite: NRF-47 Site Lead Shack			NRF - 614	WasteType: Chemical	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-02	No Further Action	NRF-52 and NRF-47 represent three locations of a lead casting and storage building. NRF-52 consists of two former locations in which the soil has been disturbed after each building relocation because of past construction activities. Soil samples collected near the original building location showed elevated levels of lead, however, the levels were still below the remediation goal of 400 ppm. The qualitative risk for the original building location was determined to be low. The building was then moved in 1956. There was no evidence of elevated lead levels at this second location. No hazardous source is present at this second building location. Although the building is no longer used for lead casting, samples collected from the current building location (NRF-47) showed the building siding and drainage system did not have elevated levels, thus no hazardous source was determined to be present.	lead		HW
WasteSite: NRF-48 West Refuge Pit #1			NRF -	WasteType: Radiological	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-06	No Further Action	This site is a past landfill area or suspected landfill area.			CW

NRF (WAG 08) Waste Sites

WasteSite: NRF-49 West Refuge Pit #2			NRF -	WasteType: Radiological	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-06	No Further Action	This site is a past landfill area or suspected landfill area.			CW

WasteSite: NRF-50 West Refuge Pit #3			NRF -	WasteType: Radiological	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-06	No Further Action	This site is a past landfill area or suspected landfill area.			CW

WasteSite: NRF-51 West Refuge Pit #4			NRF -	WasteType: Radiological	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-05	Five Year Review	This site is a CERCLA Municipal Landfill. The remedy for this site included containment with a native soil cover, soil gas monitoring, groundwater monitoring, periodic inspection and maintenance, and maintaining institutional controls.			CW

NRF (WAG 08) Waste Sites

WasteSite: NRF-52A&B Old Lead Shack	NRF -	WasteType: Chemical	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-02	No Further Action	NRF-52 and NRF-47 represent three locations of a lead casting and storage building. NRF-52 consists of two former locations in which the soil has been disturbed after each building relocation because of past construction activities. Soil samples collected near the original building location showed elevated levels of lead, however, the levels were still below the remediation goal of 400 ppm. The qualitative risk for the original building location was determined to be low. The building was then moved in 1956. There was no evidence of elevated lead levels at this second location. No hazardous source is present at this second building location. Although the building is no longer used for lead casting, samples collected from the current building location (NRF-47) showed the building siding and drainage system did not have elevated levels, thus no hazardous source was determined to be present.	lead	HW

WasteSite: NRF-53 East Refuge Pit and Trenching Area	NRF -	WasteType: Radiological	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-06	Five Year Review	This site is a CERCLA Municipal Landfill. The remedy for this site included containment with a native soil cover, soil gas monitoring, groundwater monitoring, periodic inspection and maintenance, and maintaining institutional controls.		CW

WasteSite: NRF-54 Old Boilerhouse Blowdown	NRF -	WasteType: Radiological	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-02	No Further Action	NRF-54 is a steam boiler blowdown pit that was used for several years in the 1950s. The pit has reinforced concrete walls and a dirt floor. The condition of the pit is not known since it is presently covered by grass. The pit received water from blowdown of the boilers to prevent scale buildup in the system. No hazardous source is present.		CW

NRF (WAG 08) Waste Sites

WasteSite: NRF-55 Misc. NRF Sumps and French Drains			NRF -	WasteType: Radiological	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-02	No Further Action	NRF-55 consists of 17 french drains located around the NRF. Eleven of the drains are used for steam condensate, five for storm water, and one receives water from occasional washing of vehicles. The french drains are gravel filled excavations to promote infiltration. These drains would not have received hazardous constituents, eliminating any hazardous source.			CW
WasteSite: NRF-56 Degreasing Facility			NRF -	WasteType: Chemical	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-03	No Further Action	This site is the former location of a pipe degreasing and pickling facility used between 1957 and 1961. The facility was replaced with a railroad car shed which used as a pipe and welder training shop and is currently a records storage building. The original facility was likely completely removed when the railroad car shed was placed at this location. No hazardous source is present.			HW
WasteSite: NRF-57 S1W Gravel Pit			NRF -	WasteType: Radiological	Ref: 640
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8/NA	No Further Action	NRF 57 is located on the southeast side of the NRF parking lot and west of the S1W Seepage Basin. The boundary on the west is Washington Blvd. The southern boundary is open desert. The gravel from the pit was used at NRF during the late fifties and early sixties. The gravel from this pit was also used in the 1986 expansion of the NRF parking lot. Visual inspection of this area indicates the area was backfilled and not used. Some traces of surface rubble exist on this site due to later construction in the area of the gravel pit. Interviews with former employees did not identify any waste disposal activities in the area.			CW

NRF (WAG 08) Waste Sites

WasteSite:	NRF-58 S1W Old Fuel Oil Tank Spill	NRF -	WasteType: Chemical	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-04	No Further Action	Past petroleum product (oil) release. The area was cleaned, but some residual contamination exists. COCs include polychlorinated biphenyls (PCBs), total petroleum hydrocarbons, benzene, toluene, ethylbenzene, and xylene. Each contaminant was determined to be below risk-based concentrations.	<p>polychlorinated biphenyls (PCBs)</p> <p>total petroleum hydrocarbons</p> <p>benzene, ethylbenzene</p> <p>toluene</p> <p>xylene</p>	HW

WasteSite:	NRF-59 Original S1W Refuse Pit	NRF -	WasteType: Radiological	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-05	No Further Action	This site is a past landfill area or suspected landfill area.		CW

WasteSite:	NRF-60 Old Incinerator	NRF -	WasteType: Chemical	Ref: 639
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8/NA	No Further Action	Unit 60 is located on the Northeast corner of the NRF perimeter fence. The boundaries are not distinct on three sides of the area. A dirt road runs along the north and east side of the unit. The west boundary is open and runs along the NRF perimeter fence. The dates of operation are from 1958 to 1985. In 1958, the area consisted of an area fenced off with chicken wire for an open burn. Then in 1960, the incinerator was installed for burning paper from NRF. This incinerator was used from 1960 to 1990 with the burned wastes being dumped into 4x4x8 ft. boxes. Visual inspection of the area indicates that during construction of the NRF perimeter fence, this area was cleaned and surfaced with fresh soil and rock.		HW

NRF (WAG 08) Waste Sites

WasteSite: NRF-61 Old Radioactive Materials Storage/Laydown NRF -			WasteType: Radiological	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-02	No Further Action	NRF-61 is a former location of a radioactive material storage and laydown area that was used from 1954 to 1960. Soil sampling showed detectable amounts of cesium-137 that were well below the remediation goal. The qualitative assessment assumed an institutional control period for the future residential scenario. Risk was determined to be low.	cesium-137	CW

WasteSite: NRF-62 ECF Acid Spill Area NRF -			WasteType: Chemical	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-04	No Further Action	This site is the location of a past nitric acid spill. Around 1960, 2,460 gallons of acid was spilled. The area has since been disturbed by construction activity. No remaining hazardous source is present.	nitric acid	HW

WasteSite: NRF-63 A1W Construction Debris Area NRF -			WasteType: Radiological	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-01	No Further Action	Rubble pile from past construction projects. The rubble piles consist primarily of soil, concrete, metal, and wood. No hazardous waste source is present.		CW

NRF (WAG 08) Waste Sites

WasteSite: NRF-64 South Gravel Pit			NRF -	WasteType: Chemical	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-02	No Further Action	This site is a gravel pit that has been used as a construction rubble pile. The rubble pile consists of concrete, metal, wood, and asphalt. A piece of asbestos was found at the site in 1989. A burn pile exists near the gravel pit and the ground appears stained with petroleum hydrocarbons. It is hypothesized that petroleum products were used to facilitate burning combustible waste. Soil sampling showed elevated total petroleum hydrocarbons. The qualitative risk was determined to be low.	petroleum hydrocarbons asbestos		HW
WasteSite: NRF-65 Southeast Corner Oil Spill			NRF -	WasteType: Chemical	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-04	No Further Action	Past petroleum product (oil) release. The area was cleaned, but some residual contamination exists. COCs include polychlorinated biphenyls (PCBs), total petroleum hydrocarbons, benzene, toluene, ethylbenzene, and xylene. Each contaminant was determined to be below risk-based concentrations.	polychlorinated biphenyls (PCBs) total petroleum hydrocarbons benzene, ethylbenzene toluene xylene		HW
WasteSite: NRF-66 Hot Storage Pit			NRF -	WasteType: Radiological	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-08	No Further Action	NRF-66 is an area where a tanker truck collected radioactive liquid waste for transportation to other INEEL facilities for processing. Spills reportedly occurred in this area. Contaminated soil was removed from the area in 1980. Sampling during the Comprehensive RI/FS showed slightly elevated amounts of cesium-137 that were well below remediation goals	cesium-137		CW

NRF (WAG 08) Waste Sites

WasteSite: NRF-67 Old Transformer Yard	NRF -	WasteType: Radiological	Ref: 651
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8/NA	No Further Action	Unit 67 is located on the west side of the plant services building. Between 1951 and 1957, this area was an open area containing the transformer yard. Construction from 1958 to the present have covered most of what was the transformer yard, and is now the plant services area. From 1951 to 1957, the area consisted of a fenced area containing the power supply system for NRF. The area was 100 ft. by 200 ft. directly behind plant services building. The transformer yard was moved in 1958 to its present location west of A1W and new buildings have been constructed on the old transformer yard site. Visual inspection of the area indicates that during construction, this area was cleared for buildings and asphalt roadways.		CW

WasteSite: NRF-68 Corrosion Area Behind BB11	NRF -	WasteType: Chemical	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-02	No Further Action	This site is an area that has been used for vehicle parking and construction pipe staging and cutting operations. This site was erroneously identified as a corrosion area. Soil sampling showed detectable total petroleum hydrocarbons in the area. Small amounts of chlorobenzene were also detected in the soil. The qualitative risk was determined to be low.	chlorobenzene petroleum hydrocarbons	HW

WasteSite: NRF-69 Plant Service UST Diesel Spill	NRF -	WasteType: Chemical	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-04	No Further Action	Past petroleum product (oil) release. The area was cleaned, but some residual contamination exists. COCs include polychlorinated biphenyls (PCBs), total petroleum hydrocarbons, benzene, toluene, ethylbenzene, and xylene. Each contaminant was determined to be below risk-based concentrations.	polychlorinated biphenyls (PCBs) total petroleum hydrocarbons benzene, ethylbenzene toluene xylene	HW

NRF (WAG 08) Waste Sites

WasteSite: NRF-70 Boiler House Fuel Oil Release			NRF -	WasteType: Chemical	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-04	No Further Action	Past petroleum product (oil) release. The area was cleaned, but some residual contamination exists. COCs include polychlorinated biphenyls (PCBs), total petroleum hydrocarbons, benzene, toluene, ethylbenzene, and xylene. Each contaminant was determined to be below risk-based concentrations.	polychlorinated biphenyls (PCBs) total petroleum hydrocarbons benzene, ethylbenzene toluene xylene		HW
WasteSite: NRF-71 Plant Service UST Gasoline Spill			NRF -	WasteType: Chemical	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-04	No Further Action	Past petroleum product (oil) release. The area was cleaned, but some residual contamination exists. COCs include polychlorinated biphenyls (PCBs), total petroleum hydrocarbons, benzene, toluene, ethylbenzene, and xylene. Each contaminant was determined to be below risk-based concentrations.	polychlorinated biphenyls (PCBs) total petroleum hydrocarbons benzene, ethylbenzene toluene xylene		HW
WasteSite: NRF-72 NRF Waste Oil Tank			NRF -	WasteType: Chemical	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-04	No Further Action	Past petroleum product (oil) release. The area was cleaned, but some residual contamination exists. COCs include polychlorinated biphenyls (PCBs), total petroleum hydrocarbons, benzene, toluene, ethylbenzene, and xylene. Each contaminant was determined to be below risk-based concentrations.	polychlorinated biphenyls (PCBs) total petroleum hydrocarbons benzene, ethylbenzene toluene xylene		HW

NRF (WAG 08) Waste Sites

WasteSite: NRF-73 NRF Plant Services Varnish Tank	NRF -	WasteType: Chemical	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-04	No Further Action	NRF-73 is a former varnish tank. The varnish tank was used from 1970 to 1980 and was removed in 1991. Xylene was the primary component of the varnish. There was no evidence of tank leakage when the tank was removed in 1991. No hazardous source is present.	Xylene	HW

WasteSite: NRF-74 Abandoned USTs Between NRF Security Fe	NRF -	WasteType: Chemical	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-04	No Further Action	Past petroleum product (oil) release. The area was cleaned, but some residual contamination exists. COCs include polychlorinated biphenyls (PCBs), total petroleum hydrocarbons, benzene, toluene, ethylbenzene, and xylene. Each contaminant was determined to be below risk-based concentrations.	polychlorinated biphenyls (PCBs) total petroleum hydrocarbons benzene, ethylbenzene toluene xylene	HW

WasteSite: NRF-75 Fuel Oil Revetment Oil Releases	NRF -	WasteType: Chemical	Ref: 638
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-04	No Further Action	Past petroleum product (oil) release. The area was cleaned, but some residual contamination exists. COCs include polychlorinated biphenyls (PCBs), total petroleum hydrocarbons, benzene, toluene, ethylbenzene, and xylene. Each contaminant was determined to be below risk-based concentrations.	polychlorinated biphenyls (PCBs) total petroleum hydrocarbons benzene, ethylbenzene toluene xylene	HW

NRF (WAG 08) Waste Sites

WasteSite: NRF-76 Vehicle Barrier Removal			NRF -	WasteType: Chemical	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-04	No Further Action	Past petroleum product (oil) release. The area was cleaned, but some residual contamination exists. COCs include polychlorinated biphenyls (PCBs), total petroleum hydrocarbons, benzene, toluene, ethylbenzene, and xylene. Each contaminant was determined to be below risk-based concentrations.	polychlorinated biphenyls (PCBs) total petroleum hydrocarbons benzene, ethylbenzene toluene xylene		HW
WasteSite: NRF-77 A1W Fuel Oil Revetment Oil Releases			NRF -	WasteType: Chemical	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-04	No Further Action	Past petroleum product (oil) release. The area was cleaned, but some residual contamination exists. COCs include polychlorinated biphenyls (PCBs), total petroleum hydrocarbons, benzene, toluene, ethylbenzene, and xylene. Each contaminant was determined to be below risk-based concentrations.	polychlorinated biphenyls (PCBs) total petroleum hydrocarbons benzene, ethylbenzene toluene xylene		HW
WasteSite: NRF-79 ECF Water Pit Release			NRF -	WasteType: Radiological	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-08	No Further Action	NRF-79 is a past water release from the Expeded Core Facility water pits. Approximately 62,500 gallons of water are estimated to have leaked in 1991 from the pits. The release was estimated to have been 30 feet below ground surface. The water contained detectable amounts of radionuclides. A risk assessment was performed assuming all the water migrated directly to the groundwater and was available for domestic use. The risk assessment evaluation showed an acceptable risk.			CW

NRF (WAG 08) Waste Sites

WasteSite: NRF-80 A1W/S1W Radioactive Line Near BB19 NRF -			WasteType: Radiological	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-08	No Further Action	This area consists of an underground pipe that was known to have leaked near the S1W spray pond. The pipe carried radioactive water for eventual discharge to the S1W leaching beds. Previous sampling has not shown levels above remediation goals, but the potential exists that contaminants of concern at NRF-80 are cesium-137 for the future residential scenario and cobalt-60 for the current occupational scenario. However, an exposure route would be present for the occupational scenario if current institutional controls are maintained.	cesium-137 cobalt-60	CW
WasteSite: NRF-81 A1W Processing Building Area Soil NRF -			WasteType: Radiological	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-08	No Further Action	NRF-81 is an area around a radioactive processing building where known spills have occurred in the past. Typically, these spills were cleaned up to the maximum extent possible at the time. Cesium-137 and cobalt-60 were the only radionuclides detected at elevated levels during past sampling.	cesium-137 cobalt-60	CW
WasteSite: NRF-82 Soil Above UST Vault NRF -			WasteType: Radiological	Ref: 638
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
8-08	No Further Action	This site was a new area identified after the Comprehensive Remedial Investigation was completed. This unit consists of the soil above an underground storage tank vault. Currently, the tank and it's contents are scheduled to be removed under other regulatory actions. One spill was known to have occurred at the area in 1972. The spill was cleaned up to the standards at that time and additional construction has occurred in the area. Slightly elevated amounts of radioactivity were reported after the clean up was performed in 1972. Additional clean up was performed in 1977. The remaining radioactivity is below remediation goals. The qualitative risk was determined to be low.		CW

NRF (WAG 08) Waste Sites

WasteSite: NRF-83			NRF -	WasteType: Unknown	Ref: NA
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
8-08	New Site				

ANL-W (WAG 09) Waste Sites

WasteSite:		ANL -	WasteType: Mixed	Ref: 164
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
9-04	RI/FS	<p>The Industrial Waste Pond (IWP) is an unlined (approximately 3 acre) evaporative seepage pond fed by the Interceptor Canal and other drainage ditches. The pond was excavated in 1959, has had a maximum water depth of about 4m (13ft.) and is still being used today. The human health risk assessment indicates that cesium-137 in the Industrial Waste Pond poses unacceptable risk to humans, while five inorganics (chromium, mercury, selenium, silver, and zinc) in the Industrial Waste Pond pose unacceptable risks to the ecological receptors. Currently there is no viable exposure routes to humans or the ecological receptors (burrowing animals) as long as the Industrial Waste Pond is still in use, with water covering the sediments. However, in the future, after the useful life of the Industrial Waste Pond, sludges could pose a threat to humans and the burrowing animals. ANL-W anticipates that the Industrial Waste Pond will continue to receive cooling water discharges from the Sodium Process Facility until December, 2001. Sometime thereafter, in order to meet human health remedial action objectives, the selected alternative will be implemented once the Industrial Waste Pond is dry.</p>	<p>cesium-137</p> <p>chromium</p> <p>mercury</p> <p>selenium</p> <p>silver & zinc</p>	<p>CW</p> <p>HW</p>

ANL-W (WAG 09) Waste Sites

WasteSite: ANL-01A Main Cooling Tower Blowdown Ditch			ANL -	WasteType: Mixed	Ref: 164
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9-04	RI/FS	The Main Cooling Tower Blowdown Ditch (MCTBD) around from the west side of the Cooling Tower north between the security fences to the Industrial Waste Pond. It is an unlined channel approximately 213m (700ft.) in length and 0.9 to 4.6m (3 to 15 ft.) wide. The ditch has been used from 1962 to the present to convey industrial wastewater from the Cooling Tower to the Industrial Waste Pond. The main source of impurities discharged to the Industrial Waste Pond were water treatment chemicals used to regenerate the ion exchange resin, which removes minerals from cooling water used in the EBR-II steam system. Soil samples were collected in 1987, 1988, and 1994 and were analyzed for volatile and semivolatile organic compounds, PCBs, pesticides, herbicides, dioxin/furans, metals, and radionuclides. While the human health risk assessment shows no unacceptable risks, the ecological risk assessment shows unacceptable risks to the ecological receptors due to ten inorganics (arsenic, barium, copper, lead, manganese, mercury, nickel, selenium, silver, and sodium).	PCBs, pesticides, & herbicides		CW
			dioxin/furans, metals, & radionuclides		HW
			arsenic, barium, & copper		
			lead, manganese, & mercury		
			nickel, selenium, silver, & sodium		
WasteSite: ANL-04 ANL Sewage Lagoons			ANL -	WasteType: Mixed	Ref: 363
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9-01	No Further Action	The sanitary sewage lagoons are located at the Sanitary Sewage Treatment Facility, north of the ANL-W facility. Two lagoons were constructed in 1965 along with a third built later in 1974. The lagoons receive all sanitary wastes originating at ANL-W, with the exception of the Transient Reactor Test Facility, Sodium Process facility, and the Sodium Components Maintenance Shop. The three lagoons are sealed with a bentonite liner. A large leak in the northeast corner of the third lagoon was detected after construction in 1974. The leak was sealed with a hypalon liner. Between 1975 and 1981, photo processing solutions were discharged from the Fuel Assembly and Storage Building to the Sanitary Waste Lift Station, which discharges to the lagoons. Sampling and maintenance are current activities at the site.	silver		HW
			low level medical radionuclides		CW
			arsenic		
			chromium (hexavalent)		

ANL-W (WAG 09) Waste Sites

WasteSite: ANL-05 ANL Open Burn Pits 1,2,3			ANL -	WasteType: Chemical	Ref: 164
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9-03	No Further Action	Three abandoned open burn pits are located at ANL-W. The pits were initially used to burn construction wastes, such as paper and wood in the early 1960s. In addition, approximately 150 gals of organic wastes from analytical chemistry operations were disposed in the burn pits from 1965 to 1970. The organic wastes consisted primarily of toluene, xylene, hexane, isopropyl alcohol, butyl cellosolve, tributylphosphate, and mineral oil. A risk assessment was performed on the results of the sampling that indicates that the potential risk from exposure to all contaminants detected is less than the lower limit of the NCP target risk range.	toluene		HW
			xylene		
			hexane		
			isopropyl alcohol		
			butyl cellosolve		

WasteSite: ANL-08 EBR-II Leach Pit (Radioactive)			ANL -	WasteType: Radiological	Ref: 164
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9-02	No Further Action	The EBR-II Leach Pit is located between the inner and outer security fences in the southwest corner of the ANL-W facility. The Leach Pit was an irregularly shaped, unlined underground basin that was excavated with explosives into basalt bedrock in 1959. The Leach Pit was used to dispose of ANL-W liquid industrial waste including cooler tower blowdown, sanitary effluent, cooling condensates, and radioactive effluent, until 1973. The majority of the sludge was removed during an interim action in December 1993, after which the bottom of the Leach Pit was lined with 5 to 7cm (2 to 3in.) of bentonite clay and backfilled to grade. A risk assessment performed on the concentration of the contaminants in the basalt and in the remaining sludge indicates that the total potential risk is 6E-06 from ingestion of groundwater contaminated with beryllium and neptunium-237, which is at the lower limit of the NCP target risk range (i.e., 1E-06). A Track 2 Summary Report was completed and signed by the RPMs that recommended additional evaluation of the vadose zone below the Leach Pit in the OU 9-04 Comprehensive RI/FS. The additional sampling and modeling of the contaminants in the vadose zone in the OU 9-04 Comprehensive RI/FS show no unacceptable risks.	beryllium		CW
			neptunium-237		

ANL-W (WAG 09) Waste Sites

WasteSite: ANL-09 ANL Interceptor Canal			ANL -	WasteType: Radiological	Ref: 164
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9-04	RI/FS	The ANL-W Interceptor Canal was utilized to transport industrial waste to the Industrial Waste Pond and to divert spring runoff and other natural waters around the ANL-W. Between 1962 and 1975, two 4-in. pipes transported liquid industrial wastes and cooling tower effluent to the Interceptor Canal. Discharges of the industrial waste to the Interceptor Canal were discontinued in 1973, and the and the cooling tower blowdown discharges were discontinued in 1975. During plant dredging clean out operations at the Interceptor Canal in October 1969, abnormal background radioactivity was detected. Additional radiation surveys in 1973 and 1975 indicated that the Interceptor Canal still had some contaminated areas. The Interceptor Canal Site has been divided into two separate areas for the risk assessment. These two areas are the Mound, which consists of the dredged material placed on the canal bank, and the Canal itself. The results of the human health risk assessment shows that cesium-137 poses unacceptable risks to humans in both the Canal and the Mound, while mercury poses unacceptable risks to the ecological receptors in the Canal area only	cesium-137		CW
			mercury		

WasteSite: ANL-10 Dry Well between T-1 and ZPPR Mound			ANL -	WasteType: Radiological	Ref: 668
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9/NA	No Further Action	This dry well is four feet below the ground surface and is 6 feet in depth. The well is filled with rocks having a minimum rock size of three inches and a maximum rock size of twelve inches. The only waste to this well was from a septic tank associated with the resident engineer's office lavatory units. The septic tank was removed in 1966. No chemistry laboratory was located in the resident engineer's office. No chemicals were disposed into the septic system from personnel interviews.			CW

WasteSite: ANL-11 Waste Retention Tank by 783			ANL - 783	WasteType: Radiological	Ref: 652
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9/NA	No Further Action	This unit was initially installed to collect suspect (radioactive) waste water if Building 783 sprinklers were actuated. In 1975 this building was no longer used to store radioactive material and is now being used as a rigging facility. While a radioactive storage facility, no hazardous substances or hazardous wastes were disposed of in this tank. There are no industrial or sanitary connections associated with Building 783.			CW

ANL-W (WAG 09) Waste Sites

WasteSite: ANL-12 Suspect Waste Retention Tank	ANL - 793	WasteType: Mixed	Ref: 669
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
9/NA	No Further Action	Components from EBR-II contaminated with sodium were cleaned on the sodium cleanup pad by washing with water or steam. The sodium cleanup pad drained to the suspect waste retention tank. The pad was concrete covered with carbon steel with stainless steel on top. The 2500 gallon retention tank was carbon steel, the water containing sodium hydroxide was either discharged to a leaching pit if radioactivity was low enough, or tanked to the evaporator in Building 752. Liquid disposition records (1972-1975) showed no water discharged to the environment with pH less than 2 or greater than 12.5.	sodium sodium hydroxide	CW HW

WasteSite: ANL-14 Septic Tank and Drain Fields (2)	ANL - 753	WasteType: Radiological	Ref: 666
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
9/NA	No Further Action	This septic tank and leaching pits were used for the sanitary waste system for Building 753 (Plant Services) until 1979. The sanitary waste that were sent to this system included the showers, floor drains in the locker rooms, urinals, toilets and sinks. The sanitary waste system in this building is now connected to the main site system. No operations involving chemicals (i.e., paint thinners, solvents) are performed in areas where the sanitary waste system exists. There is no chemistry laboratory in Building 753.	sanitary waste	CW

WasteSite: ANL-15 Dry Well by 768	ANL - 768	WasteType: Chemical	Ref: 653
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
9/NA	No Further Action	The hot well by 768 is a carbon steel tank. It is 84" in depth with a 36" O.D. The tank has a 6" diameter overflow located 18" below grade level. Steam trap drains from EBR-II Power Plant discharge to the hot well. Morpholine, used as a pH control for the secondary steam system, is maintained between 8.6 - 9.4. A sample taken on the hot well, for pH, was 8.3	morpholine	HW

ANL-W (WAG 09) Waste Sites

WasteSite: ANL-16 Dry Well by 759 (2)			ANL - 759	WasteType: Chemical	Ref: 659
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9/NA	No Further Action	These two dry wells are french drains. The condensate returns from Building 759 (fire house) for the steam heating system drain here. The steam heating system is from the auxiliary boiler or from EBR-II steam system. No hazardous substances are associated with this steam system. Morpholine is used for secondary pH control in EBR-II steam system and the auxiliary boiler uses sodium hydroxide (pH control), phosphates (dissolved solids), and Liquimine VI for condensed corrosion control.	morpholine sodium hydroxide phosphates Liquimine VI		HW
WasteSite: ANL-17 Dry Well			ANL - 720	WasteType: Chemical	Ref: 667
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9/NA	No Further Action	This dry well received industrial waste from boiler blowdown, air cooling equipment and an air compressor. The boiler blowdown was an effluent containing treatment chemicals. The chemicals used were Nalco -435 (pH control) and phosphates. The boiler blowdown was approximately 600 gallons. This dry well was in operation from 1958 to 1980. Approximately 3 lbs. of Nalco -435 and 4.5 lbs. of phosphates were used each year. The dry well (2' in diameter x 4' in length) had an underlay of course gravel.	Nalco -435 phosphates		HW
WasteSite: ANL-18 Septic Tank and Drain Field by 789			ANL - 789	WasteType: Chemical	Ref: 658
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9/NA	No Further Action	The septic tank (1,000 gallons) and drain field (200' in length) received restroom and cafeteria waste from Building 752. Building 752 contains a chemistry laboratory but no sanitary waste drains are associated with this lab.			HW

ANL-W (WAG 09) Waste Sites

WasteSite: ANL-19 Sludge Pit West of T-7 (Imhoff Tank)			ANL - 768/ 765/	WasteType: Radiological	Ref: 363
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9-01	No Further Action	The Imhoff Tank and sludge pit collected sanitary waste from the power plant (Bldg. 768), the Fuel Conditioning Facility (Bldg. 765), the Laboratory and Office Building (Bldg. 752), and the Fire House (Bldg. 759). The Imhoff Tank used to settle out the sanitary wastes from 1963 to 1966. After settling, the sludge from the Imhoff Tank was pumped to the adjacent sludge pit. Liquid effluent from the Imhoff Tank was discharged to the EBR-II Leach Pit. All industrial wastes and laboratory chemicals were discharged separately through industrial waste lines that bypassed the Imhoff Tank/sludge pit. The Imhoff Tank and sludge pit were cut down below grade and filled with dirt in 1978.			CW

WasteSite: ANL-20 Septic Tank and Drain Field			ANL - 793	WasteType: Radiological	Ref: 665
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9/NA	No Further Action	The septic tank and leach field receives wastes from the restroom associated with 793. This includes a sink, floor drains, and toilet. This system was installed in 1983 and prior to this, no sanitary waste system existed for the building. There is no chemistry laboratory associated with this building.	sanitary waste		CW

WasteSite: ANL-21 TREAT Suspect Waste Tank/Leaching Field			ANL -	WasteType: Radiological	Ref: 660
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9/NA	No Further Action	The "Septic Tank" receives non-radioactive water from a suspect waste retention tank. The "septic tank" is nothing more than a collection tank (1,000 gal.) which then drains into a leaching field which is approximately 20'x70'. Nothing but non-radioactive water has ever been sent to this "septic tank". No hazardous substances or hazardous wastes have been associated with this system.			CW

ANL-W (WAG 09) Waste Sites

WasteSite: ANL-22 TREAT Septic Tank and Leaching Fields			ANL - 720	WasteType: Radiological	Ref: 662
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9/NA	No Further Action	The septic tank (5200 gal.) and leaching field (approximately 25'x100') receive lavatory unit waste from Building 720 (TREAT). In addition, this system receives lavatory and sink wastes from T-15 and T-27. There has never been a chemistry laboratory in any of the buildings mentioned and from personnel interviews, no chemicals have ever been discharged to the septic tank.	sanitary waste		CW
WasteSite: ANL-23 TREAT Seepage Pit and Septic Tank			ANL - 720	WasteType: Radiological	Ref: 664
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9/NA	No Further Action	The septic tank and seepage pit received lavatory unit (urinals and toilets) waste from Building 720 (TREAT) from 1958 to 1980. There has never been a chemistry laboratory in Building 720. In addition, wash basins and janitor's deep sinks went as suspect waste (potentially radioactive) to a retention tank, which is separate from this system.	sanitary waste		CW
WasteSite: ANL-24 Lab and Office Acid Neutralization Tank			ANL - 752	WasteType: Chemical	Ref: 657
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9/NA	No Further Action	An acid collection system was installed in the northeast basement area of the L&O, Building 752, in late 1973 for the purpose of segregating and collecting relatively clean acid waste from the Analytical laboratories. The system consists of a PVC cup sink at each B-wing laboratory sink location and piped with PVC piping to a 200 gallon holding tank. The system was designed so that the collected acid could be neutralized and processed for disposal. The system is used primarily for collection of the acid washings from reusable laboratory glassware that has been used for dissolution, dilution, and containment of cold line fuel samples. Hydrochloric acid accounts for approximately 95% of the current volume of approximately 2 liters/week of acid used in lab-ware washing. The remaining 5% is nitric acid with a trace of sulfuric acid. A minimum of 3 volumes of water follow each acid disposal from the laboratories.	hydrochloric acid nitric acid sulfuric acid		HW

ANL-W (WAG 09) Waste Sites

WasteSite: ANL-25 Interior Building Coffin Neutralization Tank			ANL -	WasteType: Mixed	Ref: 656
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9/NA	No Further Action	Casks used to transfer fuel from EBR-II to HFEF/S or HFEF/N are the IBCs (Interior Building Coffins). These two casks have been decontaminated twice in the history of ANL-W. Wastes generated are terri-towels that have been dampened with acetone. These towels are allowed to dry prior to placing them in radioactive waste that is shipped to the RWMC for burial. In decontaminating the interior of the IBCs, 6 gallons of HNO3 acid are used and then drained to a holding tank, which is an integral part of the process. After flushing the IBC with HNO3 acid, 25 gallons of demineralized water is flushed through the IBC to the holding tank along with 6 gallons of NaOH. This mixture of HNO3 acid, demineralized water, and NaOH results in a solution having a pH of 4 - 6. This solution is then drained to the radioactive retention tanks.	acetone		CW
			HNO3 acid		HW
			NaOH		
WasteSite: ANL-26 Critical Systems Maint. Degreasing Unit			ANL -	WasteType: Chemical	Ref: 663
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9/NA	No Further Action	This degreasing unit used a Graynells' product (Super Agitene mixed with Stoddard Solvent) from 1980 to April 1986. From April 1986, this unit is using a Safety-Kleen product (105 solvent). This material is disposed of as a hazardous waste. Safety-Kleen replenishes the material and hauls away the old material under a proper manifest. Super Agitene waste for 1984 and 1985 were disposed of as hazardous waste. Prior to this, from personnel interviews, this waste was shipped to CFA Landfill.	Super Agitene mixed with Stoddard Solvent		HW
			105 solvent		
WasteSite: ANL-27 Plant Services Degreasing Unit			ANL -	WasteType: Chemical	Ref: 655
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9/NA	No Further Action	This degreasing unit used Varco solvent from 1984 to May 1986. These materials were placed in 55 gallon drums along with old oil. These drums were disposed of as hazardous wastes. The solvent used now is Safety Kleen 105 solvent. This material is removed, replenished, and disposed of by Safety Kleen Corp.	Varco solvent		HW
			old oil		
			Safety Kleen 105 solvent		

ANL-W (WAG 09) Waste Sites

WasteSite: ANL-28 EBR-II Sump (Regeneration)			ANL -	WasteType: Chemical	Ref: 363
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9-01	No Further Action	The EBR-II Sump is an underground coated carbon steel tank located SW of Power Plant (Bldg. 768). The sump, installed in 1970, is in use. The tank is a centralized collection facility for cooling tower blowdown, ion exchange regeneration effluent, and small quantities of laboratory chemicals from the water chemistry laboratory in the Power Plant before discharging via a pipe to the Main Cooling Tower Blowdown Ditch. Currently, the Power Plant is not operating, but minor volumes of water chemistry water are still being discharged to the Main Cooling Tower Blowdown Ditch. The sump was originally used to raise the pH of cooling tower blowdown wastewater. Before 1980, hexavalent chromium was used as a corrosion inhibitor and hence, low levels of chromate's were discharged through the sump. Sulfuric acid and sodium hydroxide solutions were also used in the system.	chromium		HW
			sulfuric acid		CW
			sodium hydroxide		

WasteSite: ANL-29 Industrial Waste Lift Station			ANL - 774/ 752/	WasteType: Mixed	Ref: 363
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9-01	No Further Action	The Industrial Waste Lift Station was installed on the east side of the ANL-W site in 1972. It receives the industrial waste effluents from the Zero Power Physics Reactor support wing (774), the Lab and Office building (752), the EBR-II Engineering Labs (772/789), and the Fuel Manufacturing Facility (704). The waste effluents from these facilities are then discharged, from the lift station, to the Industrial Waste Lift Station Discharge Ditch (ANL-35). The only COC identified from process knowledge of water released to the IWLS is silver. After additional sampling, cesium-137 was found.	silver		HW
			cesium-137		

ANL-W (WAG 09) Waste Sites

WasteSite: ANL-30 Sanitary Waste Lift Station			ANL - 778	WasteType: Mixed	Ref: 363
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9-01	No Further Action	The Sanitary Waste Lift Station (Bldg. 778) was built in 1965. It receives all sanitary waste originating at ANL-W, with the exception of the Transient Reactor Test Facilities (Bldgs. 720, 721, 722, 724, and T-15), the Sodium Process Facility operations trailer, and the Sodium Components Maintenance Shop (Bldg.793). The SWLS discharges to the Sanitary Sewage Lagoons (ANL-04). Between 1975 and 1981, photo processing solutions were discharged from the Fuel Assembly and Storage Building to the SWLS. The manager of Fuel Assembly and Storage Building during that period estimates that approximately 1.32 Troy ounces of silver was discharged to the SWLS. Photo processing was discontinued at the Fuel Assembly and Storage Building in 1981. Consequently, there have been no further releases to the SWLS. Silver and low-levels of medical radionuclides are the only hazardous constituents potentially discharged to the SWLS.	LLRW		CW
			silver		HW

WasteSite: ANL-31 Industrial/Sanitary Waste Lift Station			ANL -	WasteType: Radiological	Ref: 164
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9-03	No Further Action	The Industrial/Sanitary Waste Lift Station (Bldg. 760) sanitary side is still used. However, the industrial side is inactive. In 1995, samples collected in the industrial side were analyzed for metals and radionuclides. The results indicated that several radionuclides pose a potential risk at the lower limit of the NCP target risk range. Therefore, under a best management practice, ANL-W removed the piping and contaminated soil from the Lift Station to the Meter House in November 1995. Also under a best management practice the remaining 27m (90 ft.) of the piping and soil from the Meter House to the EBR-II Leach Pit was removed in the summer of 1996. After the removals, the verification samples collected showed that the remaining contaminants were below the risk based concentrations.	radionuclides		CW

ANL-W (WAG 09) Waste Sites

WasteSite: ANL-32 TREAT Control Building: Septic Tank/Leach			ANL - 721	WasteType: Chemical	Ref: 654
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9/NA	No Further Action	The septic tank (1,000 Gal.) and leaching field (27' X 65') receive lavatory and sink wastes from Building 720 and Building 724 (future control room). There has never been a chemistry laboratory in either building and from personnel interviews, no chemicals have ever been discharged to the septic tank.			HW
WasteSite: ANL-33 TREAT Control Building: Septic/Seepage Pit			ANL - 721	WasteType: Radiological	Ref: 661
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9/NA	No Further Action	The septic tank received waste from water fountains, sinks and lavatory units. The TREAT control building has never contained a chemistry laboratory. From personnel interviews, no hazardous substances or hazardous wastes have ever been disposed in this system.	sanitary waste		CW
WasteSite: ANL-34 Fuel Oil Spill			ANL - 755	WasteType: Chemical	Ref: 164
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9-03	No Further Action	ANL-34 is the site of a 50 gal spill of #5 fuel oil from an above ground storage tank. The spilled fuel oil occupied an area approximately 1.5m x 6.1m (5ft. X 20ft.) and was confined within the bermed area. A risk assessment was performed on the mobile (i.e., naphthalene) and the most hazardous (i.e., benzene) constituents of fuel oil. The risk assessment indicates that the risk would be below the lower limit of the NCP target risk range.	#5 fuel oil		HW

ANL-W (WAG 09) Waste Sites

WasteSite: ANL-35 Industrial Waste Lift Station Discharge			ANL -	WasteType: Chemical	Ref: 164
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9-04	RI/FS	The Industrial Waste Lift Station Discharge Ditch, also known as the North Ditch, is located inside the security fences. The ditch is approximately 152m (500ft.) in length with a bottom width of 0.91 to 1.2m (3 to 4ft.). At any one time, there is approximately 5 to 8cm (2 to 3in.) of water in the ditch. The ditch receives industrial waste from most facilities at ANL-W. In 1988, soil was excavated from the North Ditch in an effort to relieve clogging in the ditch by cattails and weeds. In 1994, additional soil samples were collected and analyzed for metals and radionuclides. The risk assessment for human health shows that none of the contaminants pose unacceptable risks. The ecological risk assessment shows that three remaining inorganics (manganese, mercury, and silver) pose an unacceptable risk to the environment.	manganese		HW
			mercury		
			silver		

WasteSite: ANL-36 TREAT Photo Processing Discharge Ditch			ANL -	WasteType: Chemical	Ref: 363
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9-01	No Further Action	The TREAT Photo Processing Discharge Ditch is located NE of and parallel to the Photo lab (Bldg. 724) and the TREAT Office Building (Bldg. 721). The ditch is actually a very shallow linear depression. Approx. 1,500L of photo processing solutions are estimated to have been discharged to the ditch over the 2-year period from 1977 to 1979. It is unlikely that the photo processing solutions discharged to the ditch at any one time, and the relatively short length of time it was used. Wastes discharged to the ditch were generated in the Photo Lab. In 1987, 20 soil samples were collected from the ditch and qualitatively screened by x-ray spectrometry. Of these 20 soil samples, three were analyzed for total silver.	silver		HW

ANL-W (WAG 09) Waste Sites

WasteSite: ANL-53 Cooling Tower Riser Pits	ANL -	WasteType: Radiological	Ref: 164
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
9-04	No Further Action	The Cooling Tower Riser Pits are located approximately 3m (10ft.) east of the Main Cooling Tower. Each of the four pits is approximately 3.7m (12ft.) deep with 23 to 38cm (9 to 15in.) of soil covering the rock bottom. During winter shutdown periods of the Main Cooling Tower, the riser pipes were drained to prevent damage caused by freezing and the riser pits are used to collect the discharge. The risk assessment performed in the OU 9-04 Comprehensive RI/FS indicates that the risk to human health and the environment is less than the lower limit of the NCP target risk range.		CW

WasteSite: ANL-60 Knawa Butte Debris pile	ANL -	WasteType: Radiological	Ref: 164
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
9-01	No Further Action	The Knawa Butte is located due north of the Hot Fuel Examination Facility (Bldg. 785) near the security fence. The butte was used as a construction refuse pile until September 1972 when a service request was made to renovate the existing pile and convert it to a doughnut-shaped mound. The butte consists of primarily of clean soil and rock excavated from ANL-W facility basement construction. No potential source of hazardous constituents is known to be associated with this site.		CW

WasteSite: ANL-61 EBR-II Transformer Yard	ANL -	WasteType: Chemical	Ref: 164
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
9-01	No Further Action	The EBR-II Transformer Yard located south of the EBR-II Power Plant (Bldg. 768) is the site of PCB and diesel fuel contamination. The PCB contamination is due to historic (i.e., prior to 1978) leakage from four transformers. All four transformers were replaced and the majority of the contaminated soil was removed during a cleanup action from 1988 through 1992. An additional area of PCB contaminated soil adjacent to an underground diesel storage tank was identified for removal. The PCB contaminated soil and underground diesel storage tank were removed in the summer of 1997. Verification samples were collected after removal and show that the remaining PCB contamination was cleaned to the risk based cleanup levels.	PCBs	HW

ANL-W (WAG 09) Waste Sites

WasteSite: ANL-61A PCB Contaminated Soil Adjacent to ANL-61			ANL -	WasteType: Chemical	Ref: 363
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9-01	No Further Action	This site is basically the east portion of site ANL-61, EBR-II Transformer Yard, where PCB-contaminated soil was not removed. The only contaminants identified at this site are PCBs. Based on the nature and extent of contamination at ANL-61, the majority of the contamination is located at depth [i.e., 1.2 to 2.7m (4 to 9 ft.)] and in one corner of the site with aerial dimensions of 4.6 x 6.4m (15 x 21 ft.). The aerial dimensions are bounded on three sides by the EBR-II facility, and it is bounded on the fourth side by the analytical results from the removal action that occurred at ANL-61.	PCBs		HW
WasteSite: ANL-62 Sodium Boiler Building Hotwell			ANL - 766	WasteType: Radiological	Ref: 164
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9-01	No Further Action	The Sodium Boiler Building (Bldg. 766) condensate hotwell, built in 1962, is located north of the EBR-II Power Plant (Bldg. 768). This hotwell, which is identical to the EBR-II Power Plant condensate hotwell, receives water from the steam trap and condensate drains. Hazardous constituents (hydrazine and tritium) believed to have been present at the site were detected.			CW
WasteSite: ANL-63 Septic Tank 789-A			ANL - 789A	WasteType: Radiological	Ref: 164
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
9-01	No Further Action	This septic tank is located approximately 18m (60 ft.) northeast of the Equipment Building (Bldg. 789-A) and was believed to have been installed in the late 1950s. No potential source of hazardous materials is known to be associated with this site.			CW

Sitewide Area (WAG 06 and 10) Waste Sites

WasteSite: ARVFS-01 Containers of Contaminated NaK			SW -	WasteType: Radiological	Ref: 671
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10/NA	No Further Action	Within ARVFS Storage Bunker. The storage bunker was used by the DOD during the 1960s. Explosive tests were conducted in the AFVFS Test Pit from 1980 to 1981. The area has been characterized by D&D and is determined to be radiologically contaminated. No hazardous materials are known to be in the area.			CW
WasteSite: ARVFS-02 Contaminated Tank			SW -	WasteType: Chemical	Ref: 676
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10/NA	No Further Action	200 gallons of a eutectic solution of sodium potassium (NaK) in four containers that are stored in an underground bunker at the INEL Army Reentry Vehicle Facility Site (ARVFS). The contamination route of concern is groundwater.	sodium potassium (NaK)		HW
WasteSite: BORAX Windblown Area			SW -	WasteType: Radiological	Ref: 681
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-06	RI/FS	Retained in OU 10-04 RI/FS.			CW

Sitewide Area (WAG 06 and 10) Waste Sites

WasteSite: BORAX-01 II-V Leach Pond			SW -	WasteType: Mixed	Ref: 681
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-06	RI/FS	See OU 6-02.			CW

6-02	RI/FS	Retained for evaluation in OU 10-04 RI/FS. SE of BORAX Facility. The pond received demineralizer water from the BORAX reactors. The primary waste materials were sulfuric acid and sodium hydroxide. In addition, radioactive contamination has been detected. The pond was not lined and it has been backfilled in a D&D operation. It is assumed that the acids and bases neutralized each other. Transferred to 10-06 RI/FS.	sulfuric acid	HW
			sodium hydroxide	CW
			Cs-137	
			Co-60, U-234/235/238	
			Pu-239/240	

WasteSite: BORAX-02 BORAX-I Burial Grounds			BOR -	WasteType: Radiological	Ref: 670
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
6-01	RI/FS	Retained for evaluation in OU 10-04 RI/FS. The BORAX-I reactor was a small experimental reactor used in the summer months of 1953 and 1954. In 1954, with the design mission complete, the reactor was intentionally destroyed. The destruction methods led to surface contamination. Much of the radioactive debris was collected, consolidated in the below ground foundation of the former reactor, and buried with approx. 5 feet of soil. Surrounding the buried reactor, a 84,000 square foot area of radiologically contaminated surface soil was covered with approx. 6 inches of gravel to reduce the radiation levels at the ground surface.	Cs-137	CW	
			Co-60		
			U-235		

Sitewide Area (WAG 06 and 10) Waste Sites

WasteSite: BORAX-03 BORAX AEF Septic Tank			AEF - 703	WasteType: Radiological	Ref: 609
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
6-02	No Further Action	This facility was used for sewage from the BORAX buildings. There is no record of hazardous waste entering the system. D&D was scheduled for 1995.			CW
De					
WasteSite: BORAX-04 BORAX Trash Dump			BOR -	WasteType: Chemical	Ref: 608
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
6-02	No Further Action	SW of BORAX Facility. This area was used for general construction material during the construction of the BORAX facilities. The exact nature of the contaminants is unknown. During a D&D effort the material was removed to the CFA landfills. There is no record of hazardous materials other than asbestos. Transferred to 10-06 RI/FS.	asbestos		HW
De					
WasteSite: BORAX-05 BORAX Fuel Oil Tank			BOR -	WasteType: Chemical	Ref: 619
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
6-03	No Further Action	USTs 602-SW1 & 602-SW2. SW of AEF-602. This facility is a 1000 gallon buried fuel oil tank for the BORAX Buildings. The condition of the tank is unknown, but is assumed to be good.	fuel oil		HW

Sitewide Area (WAG 06 and 10) Waste Sites

WasteSite: BORAX-07 BORAX Inactive Fuel Oil Tank			AEF -	WasteType: Chemical	Ref: 618
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
6-03	No Further Action	AEF-601. This facility is a 1000 gallon buried fuel oil tank for the BORAX buildings. The condition of the tank is unknown, but is assumed to be good.	fuel oil	HW

WasteSite: BORAX-08 BORAX II-V Ditch			BOR -	WasteType: Mixed	Ref: 670
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
6-02	RI/FS	Retained for evaluation in OU 10-04 RI/FS. Contaminated subsurface soils.	Cs-137 metals	CW HW

WasteSite: BORAX-08 Radionuclide Contaminated Soil			SW -	WasteType: Radiological	Ref: 670
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
10-06	RI/FS	Retained in OU 10-04 RI/FS. See OU 6-02. Contaminated surface & subsurface soil	Cs-137 Sr-90 Co-60	CW

Sitewide Area (WAG 06 and 10) Waste Sites

WasteSite: BORAX-09 BORAX-V Reactor Building		BOR -	WasteType: Mixed	Ref: 670
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
6-02	R/I/FS	Retained for evaluation in OU 10-04 R/I/FS. BORAX-09 is comprised of below-ground structures left from AEF-601 including subfloor concrete foundations and reactor components, and any other remaining artifacts of the BORAX-V Facility located within the fenced boundary. Underground items include two reactor vessels, one used for the BORAX-II-IV experiments, and one used in the BORAX-V experiments, a water storage pit (now dry), an equipment pit, a subreactor room, a utility pipe trench, a steam pipe trench, and a dry storage pit. D&D tasks performed between 1985 and 1992 at the BORAX facility included the following: 1) above ground removal of AEF-601 Reactor Building portions with disposal at RWMC, 2) BORAX-01 Leach Pond was backfilled, graded, and seeded, 3) Cooling tower was dismantled and recycled, 4) turbine building was removed, foundation demolished belowgrade, backfilled, and regraded, and 5) other miscellaneous structures, piping, storage tanks, and transformers were removed. To be included in 10-04 R/I/FS.	Cs-137, Sr-90 Co-60 lead cadmium, calcium mercury	CW/HW De/Di
WasteSite: Buried Telecommunications Cable		SW -	WasteType: Chemical	Ref: 680
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
10-07	New Site Identification	Installed in the early 1950s, the cable consists of copper wiring with paper insulation enclosed by thick lead sheathing. Cable cut in 1990. Will not be retained in OU 10-04.	lead	HW

Sitewide Area (WAG 06 and 10) Waste Sites

WasteSite:	DF-1 Dairy farm Disposal Pit	SW -	WasteType: Chemical	Ref: 678
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
10/NA	No Further Action	The pit near the Dairy Farm is approximately 30x10x4. Items known to have been deposited in the pit include old oil cans, gasoline cans, glass bottles, wood, metal, wire, paint cans and syringes used on animals (no needles). The Navy used this area as a disposal site in the late 1940s.	gasoline oil paint	HW

WasteSite:	EBR-02 EBR-I Septic Tank & Seepage Pit	AEF - 702	WasteType: Radiological	Ref: 621
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
6/NA	No Further Action	AEF-702 and AEF-703. This facility received sewage from some of the EBR buildings. There is no record of hazardous waste entering the system.		CW

WasteSite:	EBR-03 EBR-I Seepage Pit	SW -	WasteType: Mixed	Ref: 670
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
10-04	RI/FS	Contaminated soil and potentially contaminated ground water are concerns.	Pu-238 Pu-239 Th-228, Th-230, Th-232 U-234/235/238	CW
6/NA	No Further Action	Revisited in OU 10-04. WMO-702. This facility received sewage from the EBR buildings. There is no record of hazardous waste entering the facility.		HW

Sitewide Area (WAG 06 and 10) Waste Sites

WasteSite: EBR-04 EBR-I Septic Tank			SW -	WasteType: Radiological	Ref: 670
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-04	RI/FS	Contaminated tank contents (sludge).	Pu-238 Pu-239 Th-228, Th-230, Th-232 U-234/235/238		CW
6/NA	No Further Action	Revisited in OU 10-04. WMO-701. This facility received sewage from the EBR-I buildings. There is no record of hazardous waste entering the facility.			CW

WasteSite: EBR-05 EBR-I Cesspool, Septic Tank & Seepage Pit			EBR - 709/71	WasteType: Radiological	Ref: 620
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
6/NA	No Further Action	This facility received sewage from the EBR Reactor building. There is no record of hazardous waste entering the system.			CW

WasteSite: EBR-06 EBR-I Septic Tank & Seepage Pit			EBR - 714/71	WasteType: Radiological	Ref: 622
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
6/NA	No Further Action	This facility received sewage from the EBR buildings. There is no record of hazardous waste entering the system.			CW

Sitewide Area (WAG 06 and 10) Waste Sites

WasteSite: EBR-07 EBR-I Fuel Oil Tank		AEF - 704	WasteType: Chemical	Ref: 616
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
6-03	No Further Action	AEF-704. This facility is a buried, 500 gallon diesel fuel tank for one of the EBR facilities. There is no record on the condition of the tank, but it is assumed to be in good condition.	diesel fuel	HW

WasteSite: EBR-08 EBR-I Fuel Oil Tank		WM - 703	WasteType: Chemical	Ref: 615
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
6-03	RI/FS	Retained for evaluation in OU 10-04 RI/FS. WMO-703. This facility is a 4000 gallon fuel oil tank for the EBR facility. It is a buried tank, condition unknown, but assumed to be good.	fuel oil	HW

WasteSite: EBR-09 EBR-I Fuel Oil Tank at WMO-601		WM - 704	WasteType: Chemical	Ref: 614
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
6-03	RI/FS	Retained for evaluation in OU 10-04 RI/FS. WMO-704. This facility is a 200 gallon, buried fuel oil tank for the facility. The tank condition is unknown but assumed to be good.	fuel oil	HW

Sitewide Area (WAG 06 and 10) Waste Sites

WasteSite: EBR-10 EBR-I Gasoline Tank			WM - 705	WasteType: Chemical	Ref: 613
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
6-03	RI/FS	Retained for evaluation in OU 10-04 RI/FS. WMO-705. This facility is a buried, 50 gallon gasoline tank for the EBR facility. The condition is unknown but is assumed to be good.	gasoline		HW
WasteSite: EBR-11 EBR-I Fuel Oil Tank			EBR - 706	WasteType: Chemical	Ref: 617
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
6-03	RI/FS	Retained for evaluation in OU 10-04 RI/FS. This facility is a 4500 gallon buried fuel oil tank for the EBR-I reactor building. The tank condition is unknown but is assumed to be good.	fuel oil		HW
WasteSite: EBR-12 EBR-I Diesel Tank			EBR - 707	WasteType: Chemical	Ref: 612
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
6-03	RI/FS	Retained for evaluation in OU 10-04 RI/FS. This facility is a buried 1000 gallon diesel fuel tank for the EBR Reactor building. The tank condition is unknown but is assumed to be good.	diesel fuel		HW

Sitewide Area (WAG 06 and 10) Waste Sites

WasteSite: EBR-13 EBR-I Gasoline Tank			EBR - 708	WasteType: Chemical	Ref: 611
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
6-03	No Further Action	This facility is a buried 600 gallon gasoline tank for the EBR Reactor building. The tank condition is unknown, but is assumed to be good.	gasoline		HW

WasteSite: EBR-14 EBR-I Gasoline Tank			EBR - 717	WasteType: Chemical	Ref: 610
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
6-03	No Further Action	This facility was a gasoline tank, 500 gallon, for the EBR facilities. The tank may not exist anymore. There is no record, but there is no evidence of it. We assume it is still in place and in good condition.	gasoline		HW

WasteSite: EBR-15 EBR-I Radioactive Soil Contamination			SW -	WasteType: Radiological	Ref: 680
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-06	RI/FS	Retained in OU 10-04 RI/FS. See OU 6-04. Contaminated surface & subsurface soil	Cs-137 Sr-90 Co-60		CW
6-04	RI/FS	Soil comprising four regions surrounding the EBR-601 reactor facility. Excavation of rad-contaminated soil occurred in 1995 under OU 10-06 RI/FS. Currently, this site is retained for evaluation in OU 10-04 RI/FS. Rad piping was also discovered in this area. A 'new site identification' will occur.	Cs-137		CW

Sitewide Area (WAG 06 and 10) Waste Sites

WasteSite: EBR-I Windblown Area			SW -	WasteType: Radiological	Ref: 681
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-06	RI/FS	Retained in OU 10-04 RI/FS.			CW

WasteSite: EBR-I/BORAX-A			SW -	WasteType: Mixed	Ref: 680
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-04	RI/FS	Includes BORAX-02, BORAX-01, BORAX-08, BORAX-09, EBR-08, EBR-09, EBR-10, EBR-11, EBR-12, EBR-15. See WAG 6. The EBR-I and BORAX sites consist primarily of old above ground and below ground tanks, but also include spill areas and solid waste disposal areas.			HW

WasteSite: EOCR-01 Leach Pond			SW -	WasteType: Mixed	Ref: 675
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10/NA	No Further Action	NW of Reactor Building. The facility received demineralizer waste water from the reactor facility. Wastes included sulfuric acid and sodium hydroxide. There is no liner in the pond. It is assumed that the acids and bases neutralized each other.	sulfuric acid		CW
			sodium hydroxide		HW

Sitewide Area (WAG 06 and 10) Waste Sites

WasteSite: EOCR-02 Injection Well			SW -	WasteType: Radiological	Ref: 674
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10/NA	No Further Action	East of Reactor Facility. This well received waste water from the reactor building. There is no record that hazardous or radioactive waste entered the system. The system received water from the reactor room, canal and all drains except for the laboratory, boiler room and utility room areas.			CW

WasteSite: EOCR-03 Oxidation Pond			SW -	WasteType: Mixed	Ref: 703
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10/NA	No Further Action	East of Reactor Building. This facility was intended to be used for radioactively contaminated waste water from the EOCR reactor. The reactor never operated and there is no record of the pond receiving any waste.	Asbestos		CW
			Metals		HW

WasteSite: EOCR-04 Septic Tank			SW -	WasteType: Radiological	Ref: 673
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10/NA	No Further Action	SW corner of reactor building. This facility received sanitary sewage waste from the EOCR Reactor building. There is no record of hazardous waste entering the system.			CW

Sitewide Area (WAG 06 and 10) Waste Sites

WasteSite:	EOCR-05 Blowdown Sump (EOCR-719	SW - 719	WasteType: Mixed	Ref: 672
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
10/NA	No Further Action	This facility received blowdown water from the boilers in the reactor building. There is no record of hazardous waste entering the system; however, the water did contain phosphates and sulfates for corrosion control.	phosphates sulfates	CW HW

WasteSite:	LCCDA-01 Disposal Pit #1	SW -	WasteType: Mixed	Ref: 680
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
10-01	RI/FS	Retained in 10-04. Located in the SW corner of INEEL, the pits were used primarily for disposal of solid and liquid corrosive chemicals such as nitric acid, sulfuric acid, and sodium hydroxide. Surficial radionuclides were detected in 1997.	Cs-137, Co-60, U-234/235/238 Sr-90, nitric acid, sulfuric acid, hydrochloric ac ammonium citrate, waste oil, solvents, barium beryllium, chromium, cyanide manganese vanadium, carbon tetrachloride	CW HW CW
10-06	RI/FS	See OU 10-01.		

WasteSite:	LCCDA-02 Disposal Pit #2	SW -	WasteType: Mixed	Ref: 680
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OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
10-01	RI/FS	Retained in 10-04. Located in the SW corner of INEEL, the pits were used primarily for disposal of solid and liquid corrosive chemicals such as nitric acid, sulfuric acid, and sodium hydroxide. Surficial radionuclides were detected in 1997.	hydrochloric acid, sulfuric acid ammonium hydroxide beryllium vanadium carbon tetrachloride	HW CW

Sitewide Area (WAG 06 and 10) Waste Sites

WasteSite: LCCDA-02 Disposal Pit #2			SW -	WasteType: Mixed	Ref: 680
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-06	RI/FS	See OU 10-01.			CW

WasteSite: MISC Sites Radionuclide Contam. Soils (Windblown)			SW -	WasteType: Radiological	Ref: 681
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-06	RI/FS	Includes all 10-06 sites and areas of windblown contamination as defined by EMI (Energy Measurements, Inc.) aerial isopleths for LOFT, TSF, ANL-W, BORAX, CFA, RWMC, TRA, ICPP, NRF, and PBF/ARA.			CW

WasteSite: OMRE-01 Leach Pond			SW -	WasteType: Mixed	Ref: 670
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-02	RI/FS	Transferred to OU 10-04 in 1995. Organic-Moderated Reactor Experiment (OMRE) Leach Pond. Contaminated subsurface soils, The contamination route of concern is groundwater.	Cs-137, Sr-90, Co-60		CW
			organic decomposition products		HW
			SVOCs		
			VOCs		
			metals		

Sitewide Area (WAG 06 and 10) Waste Sites

WasteSite: OMRE-01 Leach Pond			SW -	WasteType: Mixed	Ref: 670
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-04	RI/FS	The OMRE was a 12-MW thermal reactor that operated from 1957 to 1963. It was located 2 miles east of CFA near the present day Security Training Facility (STF). The leach pond and surrounding area is currently controlled as a soil contamination area. The entire soil contamination area is covered with grass, but the former pond location is identified as a slightly mounded area. Discharges from the past include 211,960 liters of radioactive aqueous waste and 3.8 million liters of reactor cooling water. In 1997, OU 10-04 investigated radionuclides and metals in the soil, verified the presence of organic contamination in the vadose zone, and discovered rad-contaminated soil and stained soil in a nearby ditch. Borehole sampling occurred.	Cs-137, Eu-152		CW
			1,1,1-TCA		HW
			Co-60		
			Sr-90		
			Pu-239/240		

WasteSite: ORD			SW -	WasteType: Chemical	Ref: 670
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-03	RI/FS	ORD-1 through 29 Ordnance Areas. Contaminated media is subsurface & surface soil. TNT and RDX (from Navy aerial bombing practice, testing) and tons of soil contaminated with explosive agents have been removed from the site since 1993 as part of an interim action and subsequent removal actions. The remaining ordnance areas will be evaluated in OU 10-04 RI/FS.	UXO, TPH, nitrate		HW
			total phosphorus, picric acid		
			PCBs, pesticides		
			VOCs, SVOCs		
10-05	RI/FS	Ordnance Areas. Contaminated media is subsurface & surface soil. TNT and RDX (from Navy aerial bombing practice, testing) and tons of soil contaminated with explosive agents have been removed from the site since 1993 as part of an interim action and subsequent removal actions. The remaining ordnance areas will be evaluated in OU 10-04 RI/FS.	UXO, TPH, nitrate		HW
			total phosphorus, picric acid		
			PCBs, pesticides		
			VOCs, SVOCs		

Sitewide Area (WAG 06 and 10) Waste Sites

WasteSite: PBF-22 SPERT-IV Leach Pond			SW - 758	WasteType: Radiological	Ref: 681
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-06	RI/FS	See OU 5-09. PBF-758.			CW

WasteSite: STF-01 STF-601 Sumps and Pits			SW - 601	WasteType: Mixed	Ref: 670
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-04	New Site Identification	Contaminated media is surface water in sumps and pits, with potential soil contamination beneath STF-601. Retained in 10-04 RI/FS.	asbestos		CW
			organics		HW
			metals		
			radionuclides		

WasteSite: STF-02 STF Gun Range			SW -	WasteType: Chemical	Ref: 670
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-04	New Site Identification	Contaminated media is surface and subsurface soil	metals		HW
			organics		

Sitewide Area (WAG 06 and 10) Waste Sites

WasteSite: TRA-34 North Storage Area (NSA)			SW -	WasteType: Radiological	Ref: 681
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-06	RI/FS	See OU 2-04.			CW

WasteSite: TSF-06 TAN/TSF-1 Area (Soil)			SW -	WasteType: Radiological	Ref: 681
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-06	RI/FS	See OU 1-05.			CW

WasteSite: TSF-26 PM-2A Tank Site			SW -	WasteType: Radiological	Ref: 681
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-06	RI/FS	See OU 1-05.			CW

Sitewide Area (WAG 06 and 10) Waste Sites

WasteSite: TSF-29 Acid Pond			SW - 735	WasteType: Radiological	Ref: 681
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-06	RI/FS	See OU 1-04. TAN-735.			CW

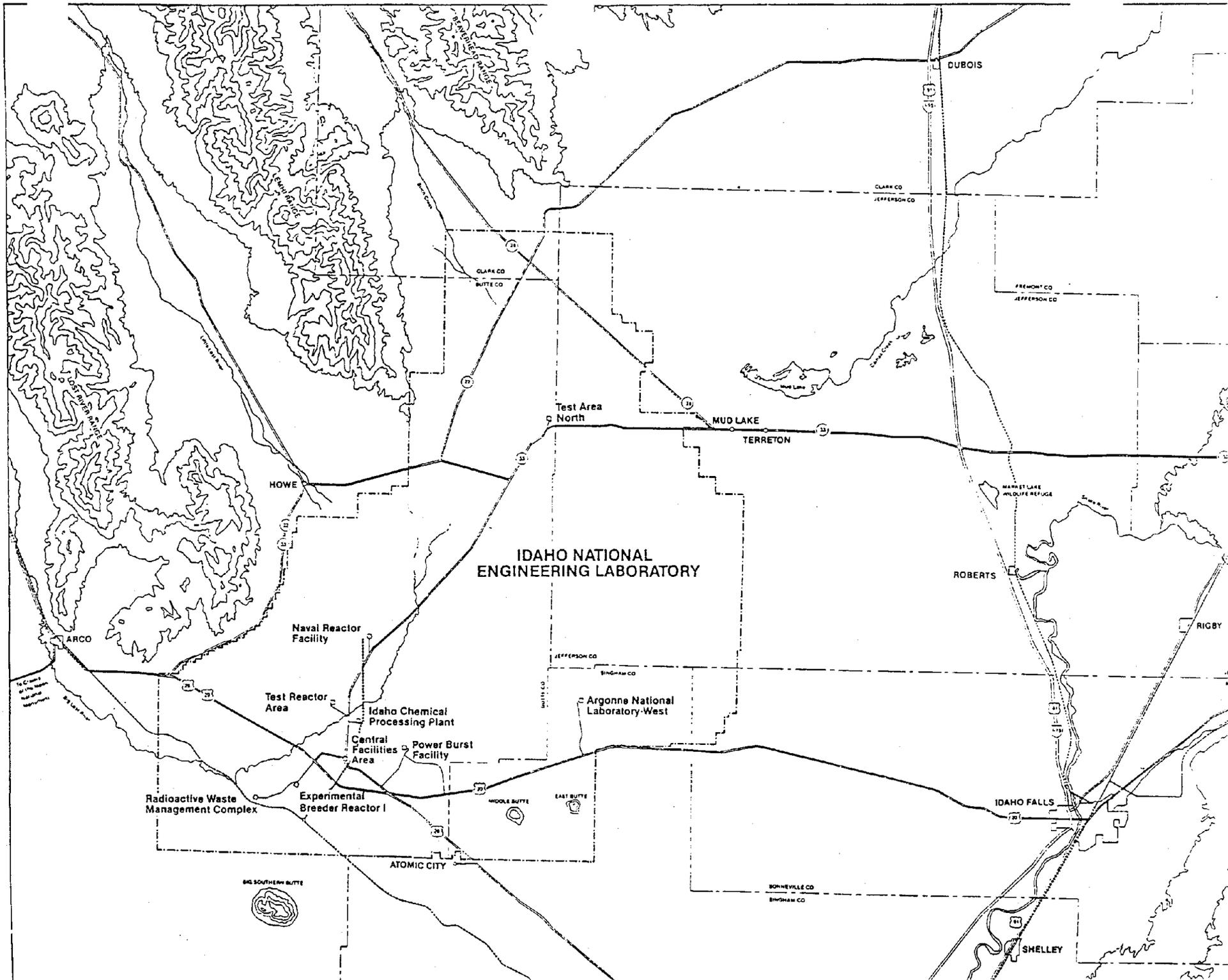
WasteSite: WAG 6 Comprehensive RI/FS			SW -	WasteType: Mixed	Ref: 670
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-04	RI/FS	Includes Aquifer. Contaminated groundwater is a concern. All retained waste sites in WAG 6 and 10.			CW

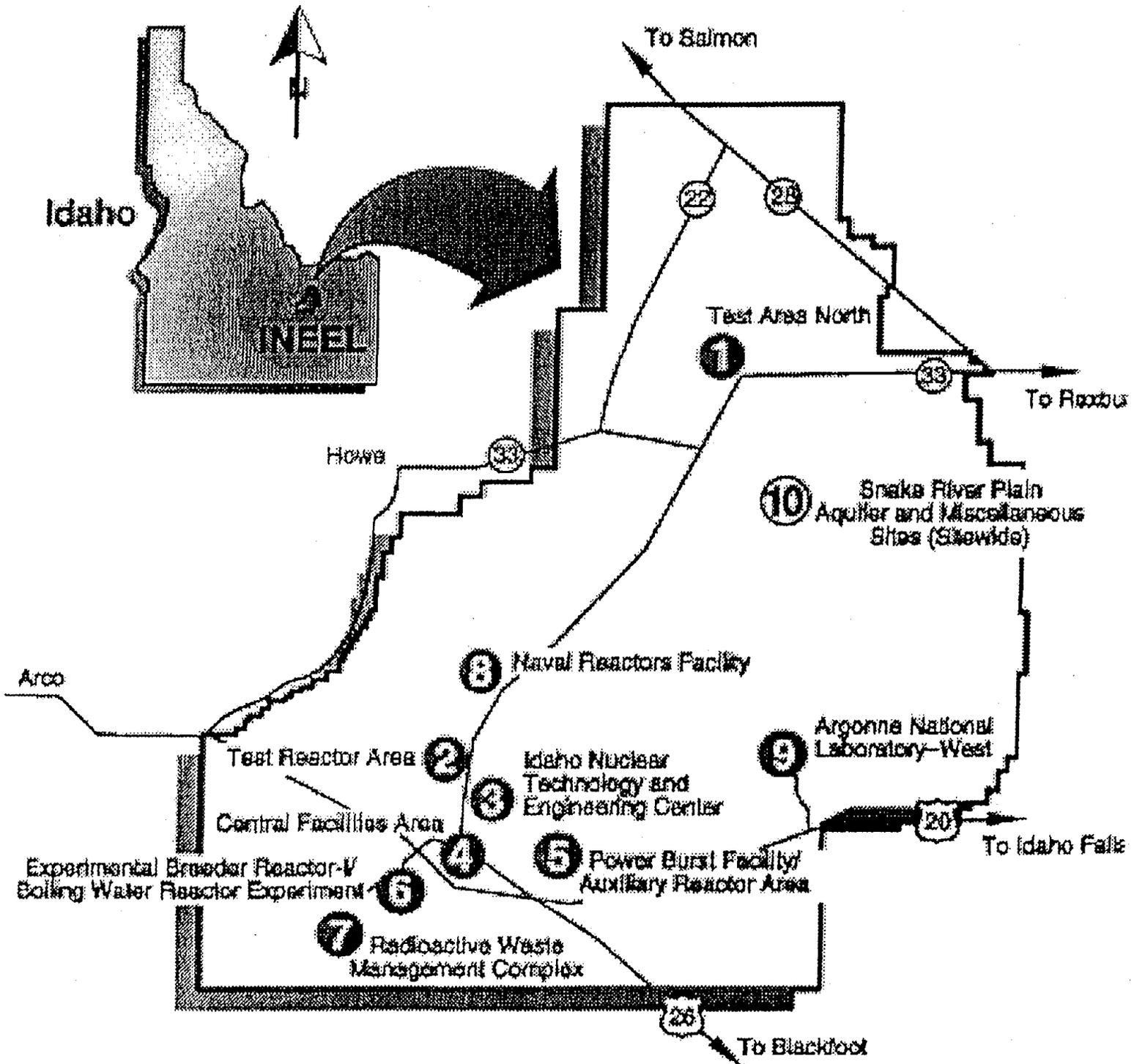
6-05 RI/FS This will be incorporated into the 10-04 Comprehensive RI/FS. HW
CW

WasteSite: WAG 7 Comprehensive RI/FS			SW -	WasteType: Mixed	Ref: NA
OU	Status	SiteDescription	Contaminants of Concern		Task Cat.
10-08	RI/FS	See WAG 7 Comprehensive.			HW CW

Sitewide Area (WAG 06 and 10) Waste Sites

WasteSite: ZPPR-01 Waste pit (Disposal Area)		SW -	WasteType: Radiological	Ref: 677
OU	Status	SiteDescription	Contaminants of Concern	Task Cat.
10/NA	No Further Action	The disposal area is in an old borrow pit located outside the fence south of ZPPR. It is estimated that approximately 2000 tons of material were deposited in the pit. Dirt and rocks account for 99% of this. The remaining 1% is broken concrete, a few pieces of rebar and an occasional piece of wood. Some asphalt from a road upgrade was deposited in the pit. Most of the asphalt has been removed.		CW





Appendix 2: INEEL Selected Site Maps

The following maps provide a view of the entire INEEL site and associated WAGs. The Map on Page 217 provides WAGs with their associated number.

Comprehensive maps of each WAG are available via the world wide web at <http://titanic.inel.gov/1025/index.html> (the INEEL Comprehensive Facility & Land Use Plan Home Page). If the WAG of interest is selected via this index site under the section 'Facilities', 'Area Map' links become available at the bottom of the WAG specific web page.⁽⁹⁾ WAG maps can then be viewed by a downloadable Computer Aided Design (CAD) viewer. The web site prompts the download. These maps are not available for hard copy printing unless special software is purchased.

