

General



Department of Energy

Albuquerque Operations Office
Los Alamos Area Office
Los Alamos, New Mexico 87544

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FEB 10 1998

Toxics Enforcement
Section 6EN-AT

FEB 05 1998

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Ms. Lou Roberts
Toxic Enforcement Section
U. S. Environmental Protection
Agency, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Dear Ms. Roberts:

Subject: Polychlorinated Biphenyls (PCB) - Notification Verification for the
Los Alamos National Laboratory (LANL)

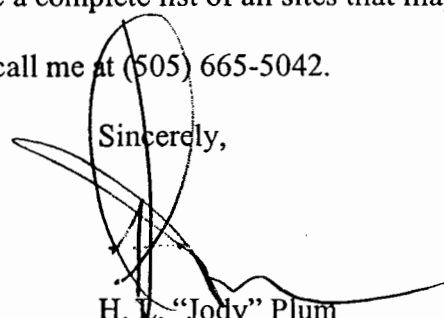
The purpose of this letter is to provide PCB spill notification to the U. S. Environmental Protection Agency (EPA). As you are aware from past written and verbal communication, our records did not indicate that EPA had been properly notified of all past PCB spill incidents. We have now completed an exhaustive records search to determine if this ever, in fact, did occur.

Based on our review of these records, some PCB spill events have occurred for which our file records were inconclusive as to whether or not notification was submitted to EPA. To ensure that all of these spill events have been reported to EPA, a table listing of those events is enclosed.

We are also enclosing a list of Environmental Restoration (ER) project sites for which we believe notification to EPA Region 6 have occurred. We are enclosing this as a separate list for you to ensure that you have a complete list of all sites that may have PCB issues.

If you have any questions, please call me at (505) 665-5042.

Sincerely,


H. L. "Jody" Plum
Office of Environment

Enclosures



13147

Table of Possible PCB Spills
Based on Review of PCB Program Historical Records

DATE IDENTIFIED	TA	BLDG	ROOM	DESCRIPTION	RANGE OF CONTAMINATION	AMOUNT OF PCB SPILLED	APPLICABILITY OF SPILL POLICY	LEVEL OF CLEANUP PERFORMED	DOCUMENTATION	NOTIFICATIONS	REFERENCE NUMBER IN FILES
Discovery and cleanup 8/21/90 - 10/3	TA-03	22	Outside	PCB Transformer (South) pad cleaning and soil removal	Assume source concentration > 500 ppm	Unknown, however at least 40 drums of contaminated soil were removed	Potential pre-1987 spill;	Transformer pad(s) were cleaned with capsur four times; soil was excavated and sampled until PCBs were <10 ppm	JCI memos 09/11/92 and 10/1/92 to R. Morales with summary of PCB cleanup jobs	File contains no copy of notification notice.	9
Discovery 05/28/85 and 00/17/89, Duration 05/28/85 - 09/00/90.	TA-03	29	Wing 9	Doc of problems in 1985. In 1989 gasket failure in elevator Hydraulic System (PCB ID # 881759) in Wing 9; oil flowed onto floor and some went into the floor drain into sump(to the TA-50 Rad Plant). No oil was pumped from the sump to the plant.	Analysis of elevator oil indicated 28,000 ppm PCBs; Swipes: side of tank 4213 ug/100 cm2, front of tank 1024 ug/100 cm2; soil in bottom of shaft 430 ppm	6 gallons	Pre-1987 spill (initial discovery in 1985); 1989 spill managed as nonreportable high concentration spill	Double wash/double rinse on concrete floor under elevator reservoir, contaminated drywall removed, 8 - 10" soil removed from bottom of lift cylinder shaft. Sump and pipe was steamcleaned and drain was to be plugged. Waste shipped to TA-54 for disposal	LANL Spill Report, memos, sample locations, analytical results	File contains no copy of notification notice.	18
Discovery and cleanup 8/8/92	TA-03	66	D wing (Basement)	Stained pads identified during transformer replacement	Source concentration assumed to be > 500 ppm	Unknown	Potential pre-1987 spill;	cleanup to < 10 ppm; cleanup completed by 04/08/92; concrete slabs disposed of at Area G	LANL memo from R. Morales to J. Mitchell	File contains no copy of notification notice.	251
02/11/92	TA-03	66	J-3 WING	Concrete floor under previous transformer locations in basement was stained; identified during transformer replacement	Source concentration assumed to be > 500 ppm	Unknown	Potential pre-1987 spill;	Contaminated concrete was cut out and new pads were poured	Memos, sample locations, analytical results	File contains no copy of notification notice.	36
Prior to 04/08/92	TA-03	66	J Wing	Stained pads identified during transformer replacement	Source concentration > 500 ppm	Unknown	Potential pre-1987 spill;	Cleanup to < 10 ppm; cleanup completed by 04/08/92; concrete slabs disposed of at Area G	LANL memo from R. Morales to J. Mitchell	File contains no copy of notification notice.	252

Table of Possible PCB Spills
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DATE IDENTIFIED	TA	BLDG	ROOM	DESCRIPTION	RANGE OF CONTAMINATION	AMOUNT OF PCB SPILLED	APPLICABILITY OF SPILL POLICY	LEVEL OF CLEANUP PERFORMED	DOCUMENTATION	NOTIFICATIONS	REFERENCE NUMBER IN FILES
Discovery 5/13/86	TA-03	102	Basement	Oil leak next to transformer in basement; leak appeared to be coming from the duct work behind the transformer	Detectable PCBs; no data on concentration	Unknown	Pre-1987 Spill;	No cleanup documented	Memo: 05/13/86 from Carpenter to Ziegler; discussing oil leak, PCB concentrations detected in machining equipment and concerns about exposure to PCBs	File contains no copy of notification notice.	44
1986, 7/22/94	TA-03	206	Outside structure, 229	During replacement of an Askarel transformer (PCB ID #855012), an aged grayish residue was discovered underneath the transformer base. In 1986 small leaks had been recorded and valves were adjusted to minimize pad contamination	101,513 ug/cm2 after double wash/rinsed five times	Unknown; 3 x 5 foot area was visibly stained and had obviously permeated the concrete pad	Potential pre-1987 spill; managed as high conc "old spill" which occurred prior to May 4, 1987; recom in spill report to address with EPA on how to treat/clean old spills.	Double washed/rinsed five times, swipe taken which indicated 101,513 ug/100cm2; contaminated pad area was encapsulated with polymeric paint before the new non-PCB transformer was placed on the pad	Spill Report, analytical, memo	File contains no copy of notification notice.	55
01/00/00	TA-03	282	Outside	Oil stain containing PCBs found in soils.	Source concentration unknown, assume > 50 - < 500 ppm; Swipe 159.9 ug/100 cm2	Unknown	Potential pre-1987 spill;	Unknown, although if in logbook, cleanup is assumed	LANL PCB log book (1986-1989)	File contains no copy of notification notice.	59
02/03/89	TA-03	287	-	PCB contaminated liquid from a compressor	Source concentration assumed to be > 50 - < 500 ppm	Unknown	Post-1987 spill EPA Spill Cleanup Policy applied	unknown	LANL Spill Report, memo	File contains no copy of notification notice.	
Prior to 01/29/86	TA-03	382	Outside	Zia Motor Pool area was to be sampled for organics, PCBs and metals; focus was on oil-stained ditch, oil-stained soil, drums of waste not labeled. No results of sampling on file	Unknown	Unknown	Potential pre-1987 spill;	No action identified	Memo: 04/21/86 from Al Tiedman to William Green; Follow-up of Preliminary Reconnaissance Findings at Zia Motor Pool	File contains no copy of notification notice.	45
Unknown; cleanup 02/07/92	TA-03	66 Butler Building	Unknown	Contamination at the north entryway by the door and next to the wire cage	Unknown source concentration; assume > 50 ppm - < 500 ppm	Unknown	Potential pre-1987 spill; Managed as a post-1987 spill.	Cleanup to < 10 ppm; cleanup completed by 09/11/92	JCI memo Subcontract # 9-X86-Y7575-1 PCB Activities Update	File contains no copy of notification notice.	249

Table of Possible PCB Spills
Based on Review of PCB Program Historical Records

DATE IDENTIFIED	EA	BLDG	ROOM	DESCRIPTION	RANGE OF CONTAMINATION	AMOUNT OF PCB SPILLED	APPLICABILITY OF SPILL POLICY	LEVEL OF CLEANUP PERFORMED	DOCUMENTATION	NOTIFICATIONS	REFERENCE NUMBER IN FILES
10/07/87	TA-03		Shop 7D	Record of conversation about potential PCB contamination around the Heat Treat furnace and instructions on what and where to sample; no further information on results	Unknown	Unknown if spill occurred	Unknown if spill occurred.	Unknown	Memo from Fred Bolton to George Kieren documenting conversation with C. Nylander	File contains no copy of notification notice	6
02/01/90	TA-08	23	Basement	Voltg. Reg. developed a slow leak which dripped onto the concrete floor below; floor drain with outfall to canyon nearby. Samples were taken in the area including a floor drain edge and side wall. The drain was plugged after sampling.	Assumed to be > 500 ppm. Samples taken of the floor drain lip, side wall, and bottom 28.2, 1640, 262 ug/100cm2 respvly; manhole sludge < 0.63 ug/g soil where outfall daylight 8.5 ug/g	100 ml.	Post-1987 spill EPA Spill Cleanup Policy applied; managed as a high concentration nonreportable spill <i>why?</i>	Double washed/double rinsed using CAPSUR of the entire area identified to be contaminated with PCBs. The drain was cleaned also	Clean up report, Analytical results, sample locations	File contains no copy of notification notice.	78
08/03/89	TA-08	430	Station 9	PCB transformer leaked onto concrete pad	Source concentration > 500 ppm	Unknown	Post-1987 spill EPA Spill Cleanup Policy applied; managed as a high concentration nonreportable spill	Unknown	Memo	File contains no copy of notification notice.	81
1945 - 1953	TA-12 (within current boundaries of TA-67)	4	Outside	Firing residues in large steel lined pit potentially include PCBs	Unknown source concentration; assume > 50 < 500 ppm	Unknown	Pre-1978 spill;	Unknown	Unverified information from ER Project files	File contains no copy of notification notice.	ER

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01/31/90	TA-15	185	-	PCB capacitor leaked	Swipe 136 ug/100 cm2	Unknown	Post-1987 spill EPA Spill Cleanup Policy applied; managed as a low concentration nonreportable spill	Unknown	LANL PCB log book (1990-1993)	File contains no copy of notification notice	87
06/05/85	TA-16	260	-	Anecdotal evidence of 1983 suspect PCB fire	Source concentration assumed to be > 500 ppm; Swipe 107 ug/100 cm2	Unknown	Pre-1987 spill; Managed as non-reportable because no PCBs detected in soot.	Cleanup of building per anecdotal evidence, no cleanup levels documented	Action Plan, memos, analytical results, sample locations	File contains no copy of notification notice.	87
07/28/87	TA-16	430	Structure 563, Station 9, Outside	PCB transformer had a small leak from the electrical conduit pipe down to the pad and adjacent soil. Had been retrofitted in 1984 w/non-PCB mineral oil, sampled and < 50 ppm, however, leached back and when sampled in '87 ws 25,000 ppm. PCB ID# 4997	Actual concentration 25,000 ppm	1/2 to 1 gallon	Potential pre-1987 spill; Managed as a nonreportable high concentration spill	Double wash/double rinse of transformer and area. Sampling indicated that soil was contaminated and cleanup continued until soil was < 25 ppm (level for outdoor substation). Total of 691 ft3 was disposed of at TA-54, Area G	LANL Spill Report, analytical results, memos	File contains no copy of notification notice.	91A
10/00/92	TA-18	252	-	Pajarito Well # 2 building with suspected PCB residue from 1983 PCB fire. Sooty area behind a piece of equipment was identified during an internal audit.	Source concentration > 500 ppm	Unknown	Pre-1987 spill;	Cleanup was accomplished for reasons of appearance, however an area behind the piece of equipment was not cleaned.	Memos, action plan, analyses	File contains no copy of notification notice.	94A

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08/12/85; 01/13/89 01/1/92	1A-35	2	A-10 (north end)	Transformer had leaked in drip pan and onto basement floor mixing with backed-up water from floor drains. Site was cleaned up. Another spill was recorded in 1989 - a small leak from bushings. Floor stained from past overflows of oil or condensate	Source concentration assumed to be > 500 ppm Actual concentrations, 6.7 ug/100cm2 to 1600 ug/100 cm2	1985 cleanup accomplished, '89 spill appeared that only a small amount of fluid had leaked. during cleanup, it appeared that various locations on the floor near the transformer and near the drain had PCB contamination exceeding 10 ug/100 cm2.	Pre-1987 and post-1987 spill. Managed as nonreportable high concentration	1985 spill floor was scrubbed and sampled 1989 Double wash double rinse, could not clean to 10 ug/100 cm2. Further cleaning was delayed until scrubbing machine was obtained.; double wash/double rinse'd again; final swipe indicated < 10 ug/100 cm2	Incident Report for 1985 spill. 10.1 spill memo analytical results grid diagram for 1989 spill	File contains no copy of notification notice.	111
10/08/92	1A-35	8	-	Release from PCB fluorescent light ballast	Unknown	Unknown	Unknown	Unknown	LANL Spill Report, analytical results	File contains no copy of notification notice.	115
03/26/93	1A-37	36	-	PCB equipment leakage	Source concentration > 500 ppm	Unknown	Post-1987 spill EPA Spill Cleanup Policy applied; managed as nonreportable high concentration spill	Unknown cleanup levels	LANL Spill Report, analytical results	File contains no copy of notification notice.	130
01/14/87	1A-39	4	-	PCB Transformer leak	Unknown	Unknown	Pre-1987 Spill;	Cleanup levels not documented	Memo, analytical results	File contains no copy of notification notice.	132
1956 to Present	TA-46	1	Outside, nearby	Effluent from metallurgical polishing released into Canada del Buey could potentially contain PCBs Duplicate of 46-004(g). ER determined NFA	No PCBs detected during investigation	Not applicable	Not applicable	Unknown	SWMU Report 10/31/90; DOE Environmental Survey Team Preliminary Report (date unknown); Revised Implementation Plan dated 1/12/90	File contains no copy of notification notice.	ER
06/24/92	1A-46	MPF-3	Outside	GLE capacitor failure	Unknown	Unknown	Unknown	Unknown	LANL Spill Report, analytical results	File contains no copy of notification notice.	182

Table of Possible PCB Spills
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DATE IDENTIFIED	TA	BLDG	ROOM	DESCRIPTION	RANGE OF CONTAMINATION	AMOUNT OF PCB SPILLED	APPLICABILITY OF SPILL POLICY	LEVEL OF CLEANUP PERFORMED	DOCUMENTATION	NOTIFICATIONS	REFERENCE NUMBER
Discovery 08/05/94. Duration at least 1989-94, likely much longer	TA-50	4	Outside	PCB transformer (ID# 855023) was being replaced when a thickened, paint-like layer of oil under the transformer was noted. A records search determined that an earlier small spill (few drops) in August 1989 had been noted and corrected.	Source concentration at least 60,260 ug/100 cm2	2 drops recorded in 1989 however, buildup of thick dried oil on pad under transformer indicates a larger volume.	Per memo from R. Morales to L. Sobajinski; spill occurred prior to 5/4/87, managed as a nonreportable high concentration. Decision was made to include it in SWMU cleanups.	Pad was double washed/double rinsed five times; tested 60,260 ug/100 cm2 after cleaning and coated with polymeric paint before new non-PCB transformer was installed.	LANL Spill Report, memo from R. Morales to L. Sobajinski, analytical results, memo from JCT	File contains no copy of notification notice.	ER
02/25/90	TA-50	7	ROOM1	Ruptured hydraulic hose fittings released fluid	Unknown if PCB-containing	10 gal.	Post-1987 spill.	Unknown	LANL Spill Report	File contains no copy of notification notice.	188
02/25/90	TA-53	30	Inside	Air Compressor contained PCB contaminated oil leak	Unknown source concentration assume > 50 - < 500 ppm	5 gal.	Post-1987 spill.	Unknown	LANL Spill Report	File contains no copy of notification notice.	
Unknown - Present as of 10/31/90	TA-53	67	Outside	PCB transformer reported to have a moderate leak during a transformer assessment; reported to have a moderate leak requiring installation of a drip pan; PCB ID# 5036; extent of environmental release unknown	Source concentration assumed to be > 500 ppm	Unknown	Pre-1978 and/or pre-1987 spill.	Unknown	SWMU Report 10/31/90	File contains no copy of notification notice.	ER

Table of Possible PCB Spills
Based on Review of PCB Program Historical Records

DATE OCCURRED	TA	BLDG	ROOM	DESCRIPTION	RANGE OF CONTAMINATION	AMOUNT OF PCB SPILLED	APPLICABILITY OF SPILL POLICY	LEVEL OF CLEANUP PERFORMED	DOCUMENTATION	NOTIFICATIONS	REFERENCE NUMBER IN FILES
06/12/87	TA-53	70	Outside	TA-53 power station a GE "Magvar" capacitor (PCB) ruptured and contaminated the concrete footings and soil. Because these were same type of capacitors as the TA-3-22 plant had, all were scheduled to be replaced 10/88. 09/88 another capacitor ruptured	Source concentration > 500 ppm	Both capacitors 6.2 gallons	Post-1987 spill managed as reportable high concentration spill	Area was cleaned up. Soil excavated to < 25 ppm, old footings removed, old racks removed. Approx 900 cubic yds soil removed and disposed of at TA-54-Area G in plastic lined and tarped dump trucks	Pan Am PCB Cleanup Report, March 1989; HSE-8 memo on event, Environmental Emergency Notification form	LANL notified Emergency Preparedness Office. EPO notified NRC and NMFIID Hotline. DOE/AI was not notified	205

**PCB SPILLS REPORTED
TO EPA THROUGH SWMU REPORTS**

IDENTIFIED (discovery date, duration of event)	TA	SWMU Number	BLDG	ROOM	DESCRIPTION	RANGE OF CONTAMINATION	AMOUNT OF PCB SPILLED	DOCUMENTATION	NOTIFICATIONS
Unknown - 1987 Decommissioned	TA-0	0-029(a)		San Ildefonso Reservation	Transformers located on San Ildefonso Reservation; two transformers at LA Well # 5; cleaned up when decommissioned per existing requirements;	Source concentration assumed to be > 500 ppm; analytical results indicate 162 - 292 ppm	Unknown however, soil was removed during decommissioning	SWMU Report 10/31/90, 09/11/92 JCI memo to R. Morales tracking progress of PCB cleanup activities and indicating LA Well # 5, soil removal, closed out; RFI Phase Report, OU 1071, SWMU Aggregate O-G, Leakage from PCB Transformers, April 1993	Notification to EPA through SWMU Report
Unknown - 1987 Decommissioned	TA-0	0-029(b)		San Ildefonso Reservation	Transformers located on San Ildefonso Reservation; three transformers at LA Well # 4; cleaned up when decommissioned per existing requirements;	Source concentration assumed to be > 500 ppm; analytical results indicate 206 - 362 ppm	Unknown	SWMU Report 10/31/90; RFI Phase Report, OU 1071, SWMU Aggregate O-G, Leakage from PCB Transformers, April 1993	Notification to EPA through SWMU Report
Unknown - 1987 Decommissioned	TA-0	0-029(c)		San Ildefonso Reservation	Transformers located on San Ildefonso Reservation; one transformer at Guaje Well #1; cleaned up when decommissioned per existing requirements;	Source concentration should be assumed to be > 500 ppm; analytical results indicate < 50 ppm	Unknown	SWMU Report 10/31/90; RFI Phase Report, OU 1071, SWMU Aggregate O-G, Leakage from PCB Transformers, April 1993	Notification to EPA through SWMU Report

**PCB SPILLS REPORTED
TO EPA THROUGH SWMU REPORTS**

DATE IDENTIFIED (D=discovery date, L=duration of event)	TA	SWMU Number	BLDG	ROOM	DESCRIPTION	RANGE OF CONTAMINATION	AMOUNT OF PCB SPILLED	DOCUMENTATION	NOTIFICATIONS
1980s duration, discovery date 10/30/85	TA-02	2-002	1	Outside	Equipment stored outside for several years for disposal leaked PCB contaminated oil which dripped onto asphalt paving and ran into storm drain to Los Alamos Canyon; presence of PCBs was not suspected until oil was being drained for disposal	Unknown source concentration, assume > 50 < 500 ppm; Actual concentrations of oil sampled ranged from 5.1 - 362 ppm	Unknown	Memo describing spill, analytical results, photos of spill area; SWMU report 10/31/90	Notification to EPA through SWMU Report
Active 1950s to at least 10/31/90	TA-03	3-012(b)	22	Outside	Outfall of cooling tower water to Sandia Canyon; During a four month period, 3 PCB capacitors within the two capacitor banks associated with the Power Plant (SM-22) ruptured. When the third capacitor ruptured in July, the capacitor bank was shut down and a W.O. to replace the capacitors was issued.	Suspected < 10 ppm Source concentration > 500 ppm; actual concentrations ranged from 3.0 - 26,000 ug/100 cm2 racks and footings; 2.1 - 30,000 ppm soil below racks	Unknown At least 10 gallons	SWMU Report 10/31/90; TA-3 RFI Report (LA-UR-96-726) LANL Spill memo, memos, sample locations, analytical results, Pan Am clean up report; SWMU Report 10/31/90; RFI Work Plan for OU1114, Addendum 1 (LA-UR- 95-731)	Notification to EPA through SWMU Report Notification to LANL emergency responders who notified LAAO. Also contacted NMED, NRC, and DOE/AL notification to EPA through SWMU Report
4/24/87 - 07/17/87	TA-03	3-003(m)	22	Outside (1188)					
Active as of 10/31/90	TA-03	3-003(e)	29	Basement	10 Transformers in the basement; stains noted;	Source concentration assumed to be > 500 ppm	Unknown	SWMU Report 10/31/90; RFI Work Plan for OU1114, Addendum 1 (LA-UR-95-731)	Notification to EPA through SWMU Report

**PCB SPILLS REPORTED
TO EPA THROUGH SWMU REPORTS**

DATE IDENTIFIED (discovery date, location of event)	TA	SWMU Number	BLDG	ROOM	DESCRIPTION	RANGE OF CONTAMINATION	AMOUNT OF PCB SPILLED	DOCUMENTATION	NOTIFICATIONS
10/31/90, 9/12/1992	1A-03	3-003(i)	32	Transformer Vault	Transformers stored in vault, stains noted on concrete. In 1992 PCB transformer leaked onto concrete pad.	Source concentration assumed to be > 500 ppm; Swipe at time of spill was 240 ug/100cm2	Unknown	LANI, PCB logbook (1990- 1993), SWMU Report 10/31/90, RFI Work Plan for OU1114, Addendum 1 (1A-UR- 95-731)	Notification to EPA through SWMU Report
Active 1970s to 1992	1A-03	3-056(e) [formerly 3-001(t)]	32		Storage for vacuum pump oil, possibly contaminated with tritium, organic solvents; electrical parts this PRS duplicates other PRSs (3-001j,n).	Source concentration unknown, assume > 50 - < 500 ppm	Unknown	SWMU Report 10/31/90, RFI Work Plan for OU1114, Addendum 1 (1A-UR-95-731)	Notification to EPA through SWMU Report
00/00/84	1A-03	3-003(g)	35	Basement	PCB oil spilled from a transformer in the basement; stains noted.	Source concentration assumed to be > 500 ppm	Unknown	SWMU Report 10/31/90, RFI Work Plan for OU1114, Addendum 1 (1A-UR-95-731)	Notification to EPA through SWMU Report
Unknown to at least 10/31/90	1A-03	3-052(a)	39	Storm drain	Storm drain near the north end of building 39 was noted to be full of metal filings and stained with oil, suspected PCBs	Unknown source concentration; assume > 50 - < 500 ppm	Unknown	SWMU Report 10/31/90, RFI Work Plan for OU1114, Addendum 1 (1A-UR-95-731)	Notification to EPA through SWMU Report
Active as of 10/31/90	1A-03	3-003(h)	39	Unknown	4 PCB transformers; stains noted.	Source concentration assumed to be > 500 ppm	Unknown	SWMU Report 10/31/90, RFI Work Plan for OU1114, Addendum 1 (1A-UR-95-731)	Notification to EPA through SWMU Report
Active as of 10/31/90	1A-03	3-003(j)	40	Basement	4 transformers stored in the basement.	Source concentration assumed to be > 500 ppm	Unknown	SWMU Report 10/31/90, RFI Work Plan for OU1114, Addendum 1 (1A-UR-95-731)	Notification to EPA through SWMU Report
1977 - 1987	1A-03	3-003(j)	40	Outside	Drum and capacitor storage; south of building; stained soil noted.	Source concentration unknown; assume > 50 - < 500 ppm	Unknown	SWMU Report 10/31/90, RFI Work Plan for OU1114, Addendum 1 (1A-UR-95-731)	Notification to EPA through SWMU Report

**PCB SPILLS REPORTED
TO EPA THROUGH SWMU REPORTS**

DATE IDENTIFIED (D=discovery date, L=duration of event)	TA	SWMU Number	BLDG	ROOM	DESCRIPTION	RANGE OF CONTAMINATION	AMOUNT OF PCB SPILLED	DOCUMENTATION	NOTIFICATIONS
Active 1970s to '92	TA-03	3-056(d) [formerly 3-001(s)]	47	Outside	Waste oil, solvents, kerosene present;	Unknown source concentration; assume > 50 - < 500 ppm	Unknown	SWMU Report 10/31/90, RFI Work Plan for OU1114, Addendum 1 (EA-UR-95-731)	Notification to EPA through SWMU Report
Active as of 10/31/90	TA-03	3-003(l)	66	Basement	9 Transformers in the basement, stains noted.	Source concentration assumed to be > 500 ppm	Unknown	SWMU Report 10/31/90, RFI Work Plan for OU1114, Addendum 1 (EA-UR-95-731)	Notification to EPA through SWMU Report
Unknown to at least 10/31/90	TA-03	3-052(b)	66	Storm drain	Storm drain northeast of Building 66 receives runoff from the north side of 66; runoff from construction has also entered the drain; suspected PCBs	Unknown source concentration; assume > 50 < 500 ppm	Unknown	SWMU Report 10/31/90, RFI Work Plan for OU1114, Addendum 1 (EA-UR-95-731)	Notification to EPA through SWMU Report
Active 1970s to '99	TA-03	3-056(b) [formerly 3-001(k)]	70		Storage area for diesel waste, capacitors, other;	Unknown source concentration; assume > 50 < 500 ppm	Unknown	SWMU Report 10/31/90, RFI Work Plan for OU1114, Addendum 1 (EA-UR-95-731)	Notification to EPA through SWMU Report
Active to at least 10/31/90	TA-03	3-003(d)	141	Outside	Transformers stored south of building; stained soil noted;	Source concentration assumed to be > 500 ppm	Unknown	SWMU Report 10/31/90, RFI Work Plan for OU1114, Addendum 1 (EA-UR-95-731)	Notification to EPA through SWMU Report
1979 - 1986	TA-03	3-003(p)	142		PCB-containing transformer and capacitor storage;	Source concentration assumed to be > 50 - < 500 ppm	Unknown	SWMU Report 10/31/90, Los Alamos National Laboratory Voluntary Corrective Action Completion Report for Potential Release Sites, Groups 3A and 3B (ICF Kaiser Engineers, Inc., Morrison Knudsen, Job #93069-043-00, Sept. 25, 1995	Notification to EPA through SWMU Report

**PCB SPILLS REPORTED
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Active since 1986	TA-03	3-003(a)	218	Outside	Capacitors, transformers, and batteries stored outside the building; stained soil noted;	Source concentration assumed to be > 50 - < 500 ppm	Unknown	SWMU Report 10/31/90; RFI Operable Unit Work Plan for OU1114 (LA-UR-93-1000)	Notification to EPA through SWMU Report; coordination and notification to NMED and EPA TSCA
Active 1970s - 79	TA-03	3-056 ^(c) [formerly 3-001 ^(d)]	223	Outside	Capacitors and transformers with PCB oils; unmarked drums that may contain waste oil and solvents;	Source concentration assumed to be > 50 - < 500 ppm; after remediation < 63 ppm	Unknown	SWMU Report 10/31/90; RFI Operable Unit Work Plan for OU1114 (LA-UR-93-1000)	Notification to EPA through SWMU Report; coordination and notification to NMED and EPA TSCA
Inactive as of 10/31/90	TA-03	3-003(b)	253	Outside	Capacitors; stored outside the building; stained soil noted;	Source concentration assumed to be > 50 - < 500 ppm	Unknown	SWMU Report 10/31/90; RFI report for 53 Potential Release Sites in TA-3, 59, 60, and 61 (LA-UR-96-726)	Notification to EPA through SWMU Report
Prior to 10/31/90	TA-03	3-003(n)	271	Outside	PCB transformer storage area; stained soil noted	Source concentration assumed to be > 50 - < 500 ppm	Unknown	SWMU Report 10/31/90; RFI Work Plan for OU1114, Addendum 1 (LA-UR-95-731)	Notification to EPA through SWMU Report
1960s to at least 10/31/90	TA-03	3-059	271	Outside	Salvage area which stored equipment, batteries, and scrap materials including PCB items	Source concentration assumed to be > 50 - < 500 ppm	Unknown	SWMU Report 10/31/90; RFI Work Plan for OU1114, Addendum 1 (LA-UR-95-731)	Notification to EPA through SWMU Report
Prior to 10/31/90	TA-03	3-003(o)	287		Capacitor storage and maintenance;	Unknown source concentration, assume > 50 - < 500 ppm	Unknown	SWMU Report 10/31/90; RFI Work Plan for OU1114, Addendum 1 (LA-UR-95-731)	Notification to EPA through SWMU Report
Decommissioned as of 10/31/90	TA-03	3-003 ^(s)	287	Outside	Drums, capacitors, stored south of building; stained soil noted;	Unknown source concentration assume > 50 - < 500 ppm	Unknown	SWMU Report 10/31/90; Operable Unit Work Plan for OU1114 (LA-UR-93-1000)	Notification to EPA through SWMU Report

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TO EPA THROUGH SWMU REPORTS**

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Unknown to at least 10/31/90	TA-03	3-052(d)	287	Storm drain	Oil stains were observed on the pavement outside of the SE corner of building 287 and on downgradient slopes into the storm drain; stains appear to be from capacitor maintenance operations in the area;	Unknown source concentration assume < 500 ppm	Unknown	SWMU Report 10/31/90; RFI Work Plan for OU1114, Addendum 1 (LA-UR-95-731)	Notification to EPA through SWMU Report
Active 1970s - 79	TA-03	3-056(f) [formerly 3-001(n)]	316	-	Storage of unknown waste types; this PRS no longer exists; replaced by 3-003(l)	Unknown	Unknown	SWMU Report 10/31/90; RFI Work Plan for OU1114, Addendum 1 (LA-UR-95-731)	Notification to EPA through SWMU Report
Prior to 10/31/90	TA-03	3-003(k)	316	Outside	East of the building; stained soil noted;	Unknown	Unknown	SWMU Report 10/31/90; RFI Work Plan for OU1114, Addendum 1 (LA-UR-95-731)	Notification to EPA through SWMU Report
Unknown to at least 10/31/90; Discovery 1986	TA-03	3-052(c)	422	Storm drain	In 1986, oil entered the storm drain near building 422, flowed down the drain pipe and daylighted southwest of building 22; spill occurred during the flushing of the hydraulic line;	Unknown if PCBs were present in the hydraulic fluid; worst case assume unknown source concentration; assume > 50 < 500 ppm	Unknown	SWMU Report 10/31/90; RFI Work Plan for OU1114, Addendum 1 (LA-UR-95-731)	Notification to EPA through SWMU Report
Active 1970s - 79	TA-03	3-056(h) [formerly 3-001(u)]	105, 287	Outside	Storage of capacitors, transformers, oil, unknown wastes;	Source concentration assumed to be 50 - 500 ppm	Unknown	SWMU Report 10/31/90; RFI Work Plan for OU1114, Addendum 1 (LA-UR-95-731)	Notification to EPA through SWMU Report

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03/01/88	TA-03	3-003(l)	16 (Van de Graaff)	Basement	2 PCB transformers in the basement; VCAs are planned to address remaining contamination on concrete	Source concentration assumed to be > 500 ppm	Unknown	SWMU Report 10/31/90; RFI Work Plan for OU1114; Addendum 1 (LA-UR-95-731)	Notification to EPA through SWMU Report
late 1970s - 1980s	TA-06	6-006	5,6		Storage area for drums located near buildings 5 and 6; area is partially surrounded by a 4 foot berm; old equipment, capacitors transformer oil, and other wastes were stored; suspect PCBs	Unknown source concentration; assume > 50 < 500 ppm PCBs or worst case > 500 ppm (transformer oils); SWMU sampled. PCBs < .5 ppm in 2 samples	Unknown	SWMU Report 10/31/90; FUS update (7/11/97)	Notification to EPA through SWMU Report
02/00/87	TA-08	8-008(b)	21	Outside	Transformer placed in storage west of building 21 and sampled at the time of storage;	Original source concentration assumed to be > 500 ppm; analytical < 50 ppm	Unknown	SWMU Report 10/31/90; OU-1157 Work Plan	Notification to EPA through SWMU Report
10/00/68	TA-08	8-008(d)	21	Outside	Transformer placed in storage southeast of building 21 near Anchos Ranch Rd; suspect PCBs;	Source concentration assumed to be > 500 ppm	Unknown	SWMU Report 10/31/90; OU-1157 Work Plan	Notification to EPA through SWMU Report
05-00/86	TA-08	8-008(a)	22	Outside	Transformer placed in storage southwest of building 22 and sampled at the time of storage; unknown if releases occurred;	Source concentration assumed to be > 500 ppm; analytical 922 ppm	Unknown	SWMU Report 10/31/90; OU-1157 Work Plan	Notification to EPA through SWMU Report

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1940s to at least 10/31/90	TA-08	8-009(c)	23	Outside	Storm sewer and outfall from TA-8-23 parking lot discharges to the north; potential PCBs	Unknown source; assume > 50 - < 500 ppm; SWMU sampled. PCBs found at about 1 ppm level	Unknown	SWMU Report 10/31/90, FUS Update (7/11/97)	Notification to EPA through SWMU Report
07/00/87	TA-08	8-008(c)	24	Outside	Transformer placed in storage east of building 24 and sampled at the time of storage; unknown if releases occurred.	Source concentration assumed to be > 500 ppm; analytical 64 ppm	Unknown	SWMU Report 10/31/90, OU-1157 Work Plan	Notification to EPA through SWMU Report
1945 - 1953	TA-12 (within current boundaries of TA-67)	12-001(a)	4	Outside	Firing residues in large steel lined pit potentially include PCBs	Unknown source concentration; assume > 50 - < 500 ppm	Unknown	Unverified information from ER Project files	None identified
1950s to at least 10/31/90	TA-16	16-027(a)	260	110	Transformer listed as having a moderate leak during a transformer assessment survey 7/87; contains 100 - 500 gallons PCB dielectric oil. PCB ID# 5608. 31-35 years old.	Source concentration > 500 ppm	Unknown	SWMU Report 10/31/90, TA-16 RFI Work Plan 7/95	Notification to EPA through SWMU Report
1940s - 1980s	TA-16	16-026(b)	307	Outside	Outfall on north side of 307 drained to Water Canyon; outfall received condensate and possibly IH ₂	Unknown source concentration, assume > 50 - < 500 ppm; Aroclor TIC of 360 ppm	Unknown	SWMU Report 10/31/90, TA-16 RFI Work Plan 7/93	Notification to EPA through SWMU Report
1950s to at least 10/31/90, leak discovered in 1987	TA-16	16-027(d)	430	Outside	Slowly leaking PCB Transformer discovered in 7/87 during a transformer assessment survey	Source identified as 25,000 ppm PCBs; ER Project has no record of releases	Unknown, however at least 80 drums of contaminated soil was removed	SWMU Report 10/31/90, JC1 memos 9/11/92 and 10/1/92 addressed to R Morales; TA-16 RFI Work Plan 7/95	Notification to EPA through SWMU Report

**PCB SPILLS REPORTED
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at least 10/31/90	TA-16	16-027(a)	430	Structure 563, Outside	Transformer contained 100-500 gallons of PCB oil and was listed as having a moderate leak. Located 100 feet from the building on a pad. The pad has a drain, cracks, and open spaces around conduit and ground wire. PCB ID# is 4997.	Source identified as 25,000 ppm PCBs. ER Project identified as 1987/1989 LANI. cleanup. Site cleanup completed in 11/92.	Unknown	SWMU Report 10/31/90; TA-16 RII Work Plan 7/95	Notification to EPA through SWMU Report
1950s to at least 10/31/90	TA-16	16-027(b)	540		Transformer located on the second floor, contains 100 - 500 gallons of PCB dielectric oil and vents to the inside of the building. Identified as having a moderate leak during a transformer assessment survey in 7/87. PCB ID #5020. 31 - 35 years old.	Source assumed to be > 500 ppm; ER Project has no spill records and the transformer was retrofilled in 1988.	Unknown	SWMU Report 10/31/90; TA-16 RII Work Plan 7/95	Notification to EPA through SWMU Report

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1981 to at least 10/31/90	TA-21	21-003	61		Drum storage area at Building 61 and at a nearby bermed asphalt pad; soil around storage pad is stained and has a sheen;	Source concentration assumed to be 500 ppm; early ER soil sampling identified concentrations up to 91,000 ppm; ER phase I has begun, identifying the 10 ppm boundary; recent samples from the pad could not duplicate the results of earlier sampling	Unknown	SWMU Report 10/31/90; Phase I	Notification to EPA through SWMU Report
Prior to 1966	TA-21	21-024 (b)	-	Outside	Outfall and septic system for building TA-21-61 (SWMU 21-003);	Unknown; site is downgrade from PCB storage area at bldg. TA-21-61; phase I data from 21-003 indicate that outfall is outside the 10 ppm boundary	Unknown	SWMU Report 10/31/90; Phase I Report IC, TA-21 Operable Unit RFI, Outfalls Investigation, LA-UR-94-228	Notification to EPA through SWMU Report
1948 - 1992 (Decommissioned)	TA-32	32-001	9	-	Former incinerator site; suspected PCB contamination < 10 ppm;	Unknown	Unknown	SWMU Report 10/31/90; RFI Report for PRS 32-001 (LA-UR-95-2231)	Notification to EPA through SWMU Report
1948 - 1988	TA-33	33-011(a)	21	Outside	Waste storage area near Building 21 at the drilling storage yard; drums of waste oils potentially contaminated with PCBs	Unknown source concentration; assume > 50 < 500 ppm; detected 1 - 2 ppm PCBs in soil at the site. No PCBs detected in 1993 sampling	Unknown	SWMU Report 10/31/90; RFI Report 1/95	Notification to EPA through SWMU Report

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TO EPA THROUGH SWMU REPORTS**

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Prior to and including 1988	TA-33	33-012(a)	39	Inside	Waste storage area for wastes generated from vehicle maintenance and equipment repair operations and waste oils to be recycled; waste oils potentially contained PCBs and metals multiple oil stains observed outside	Unknown source concentration; assume > 500 < 500 ppm; Detected 0.25 - 2.3 ppm in soil at site	Unknown	SWMU Report 10/31/90; RFI Report 1/95	Notification to EPA through SWMU Report
1962 - 1974	TA-33	33-009	Area 6	Outside	Surface disposal of PCB capacitors; area was located near the edge of a canyon; area was decommissioned in 1974-75 and waste removed to TA-54; debris remains downslope in the canyon	Unknown source concentration; assume > 50 < 500 ppm; actual concentrations 0.2 - 2 ppm	unknown	SWMU Report 10/31/90; RFI Report 9/95	Notification to EPA through SWMU Report
as of 1/31/90	TA-33	C-33-001		Outside	PCB Transformer; potentially retrofilled	Source concentration assumed to be > 500 ppm; detected 4-11 ppm in drainage	Unknown	SWMU Report 10/31/90; 1996 ER sampling (FIMAD); sampling plan 9/95. No report written yet.	Notification to EPA through SWMU Report
Active as of 10/31/90	TA-33	C-33-002		Outside	PCB Transformer; potentially retrofilled	Source concentration assumed to be > 500 ppm; detected 0.65 - 4.5 ppm in drainage	Unknown	SWMU Report 10/31/90; 1996 ER sampling (FIMAD); sampling plan 9/95. No report written yet	Notification to EPA through SWMU Report

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TO EPA THROUGH SWMU REPORTS**

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Unknown to present	TA-35	35-016(a)	2		Several active storm drains to handle rain water run-off, possible floor drain effluents from several rooms at TA-35-2; Room A10 containing floor drains for two 2,000 gal. tanks containing low-level radioactive/acid wastes; Room A13 containing floor drain.	Unknown source concentration; assume > 50 < 500 ppm; PCBs detected in 9 samples concentrations ranged from 0.031 to 1.88 mg/kg.	Unknown	SWMU Report 10/31/90; Update from ER Project Field Unit 4	Notification to EPA through SWMU Report
1950s - 1970s	TA-35	35-014(b)	2	Outside	Leaking drum located near Building 2. Drum contained oil with 50.4 ppm PCBs; unknown if all the contaminated soil removed; drum removed; location of release unknown;	Unknown source concentration; assume > 50 < 500 ppm; ER Project sampling maximum detected 0.06 mg/kg	Unknown	SWMU Report 10/31/90; RFI Report (LA-UR-96-1293)	Notification to EPA through SWMU Report
1950s - 1970s	TA-35	35-003(j), 35-003(k), 35-014(d)	29	Outside, nearby	Two stained soil areas near seige tanks near 29 which may be the result of leaks from the valve system of the seige tanks; stained soil at entry point of culvert;	Unknown source concentration; assume > 50 < 500 ppm; ER project sampled in 1993; PCBs detected in 3 samples at concentrations of 0.095, 0.64, and 2.9 mg/kg.	Unknown	SWMU Report 10/31/90, RFI Report (LA-UR-96-1293)	Notification to EPA through SWMU Report

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TO EPA THROUGH SWMU REPORTS**

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09/23/85	TA-35	35-018(a)	32	Outside	Transformer on porous concrete pad; active leak requiring drip pan; no other spill containment; transformer assessment survey on 7/23/87 required daily inspection;	Assume source concentration of > 500 ppm	Unknown	SWMU Report 10/31/90, VCA Report LA-UR-96-3271	Notification to EPA through SWMU Report
Unknown to present	TA-35	35-016(q)	34		Several active storm water collection basins that have eroded into large gullies between TA-35-34 and the edge of Ten Site Canyon and drain southward into the canyon. Three sediment samples collected showed detectable quantities of SVOC's, PCBs, metals	Unknown source concentration; assume > 50 < 500 ppm; sampling detected 0.071 (s) and 0.077(s) mg/kg	Unknown	RFI Report (LA-UR-96-2082)	Notification to EPA through RFI Report
Unknown	TA-35	35-016(f)	85		Active storm drain runs 50 ft. from TA-35-85 north to the south rim of Mortandad Canyon. Oil spills have occurred near the source areas of the drain. Soil samples from stained areas showed detectable concentrations of PCBs.	Unknown source concentration; assume > 50 < 500 ppm	Unknown	RFI Report (LA-UR-96-1293)	Notification to EPA through RFI Report

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1950s - 1970s	TA-35	35-014(e1)	85	Outside, nearby	Dielectric oil spill by north side of TA-35-85. Bulldozed off mesa, resides on canyon slope. Two dead trees noted directly downslope of the pile.	Unknown source concentration; assume > 50 < 500 ppm; Sampled in 1994; no PCBs detected; further sampling to be conducted	Unknown	SWMU Report 10-31-90 Update from Field Unit 3	Notification to EPA through SWMU Report
1950s - 1970s	TA-35	35-014(e2)	85	Outside, nearby	Area stained by overflows from the decommissioned waste oil impoundment at northeast side of TA-35-85. Soil samples for stained areas show detectable PCB concentrations.	Unknown source concentration; assume > 50 < 500 ppm	Unknown	RFI Report (LA-UR-96-1293)	Notification to EPA through SWMU Report
1977 to Present	TA-35	35-016(n)	86		Several active daylight channels established in 1977 to handle rainwater runoff from TA-35-86. Channel runs 75 ft. south to discharge into Ten Site Canyon near the northeast corner of TA-35-207. Three areas stained by oil spills near facility and point	Unknown source concentration; assume > 50 < 500 ppm; detected 0.064 mg/kg (s.l-)	Unknown	RFI Report (LA-UR-96-2082)	Notification to EPA through RFI Report

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TO EPA THROUGH SWMU REPORTS**

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1950s - 1970s	TA-35	35-014(g1)	86	Outside, nearby	Dielectric oil spill 4 ft. long and two ft. wide in area of storm drain system near northeast corner of TA-35-207, coinciding with outfall SWMU 35-016(n)	Unknown source concentration; assume > 500 ppm. PCB detected in outfall line kg	Unknown	SWMU Report 10/31/90; RFI Report (I.A-UR-96-2082)	Notification to EPA through SWMU Report
1950s - 1970s	TA-35	35-014(g2)	86	Outside, nearby	Dielectric oil spill on asphalt covered area by fence south of TA-35-86. Stains are near two dumpsters resulting from leaking containers formerly stored in the area. Stains appear to be oil.	Unknown source concentration; assume > 500 ppm	Phase I investigation completed. RFI Report (I.A-UR-96-2082) submitted. PRS recommended for NEA, awaiting NOD.	SWMU Report 10/31/90; RFI Report (I.A-UR-96-2082)	Notification to EPA through SWMU Report
1950s - 1970s	TA-35	35-014(g3)	86	Outside, nearby	Spill on west side of TA-35-86, flowed southward through culvert under road south of TA-35-86, across parking lot west of TA-35-207, down an embankment, between tanks TA-35-278 and -279, and southward across mesa into Ten Site Canyon.	Unknown source concentration; assume > 500 ppm	Unknown	SWMU Report 10/31/90	Notification to EPA through SWMU Report

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1950s - 1970s	TA-35	35-014(f)	188	Outside, nearby	Leaking dielectric oil-handling system connecting USTs (SWMU 35-011[d]) to the building. Stained soil on E side of TA-35-188. TPH levels as high as 22,500 mg/kg in soil samples. Crankcase oil stained area at base of compressor at NE corner of TA-35-188.	Unknown if PCBs involved, Unknown worst case assume unknown source concentration, assume > 500 - 500 ppm		SWMU Report 10/31/90 A.C.A. Notification to EPA through Report 1996 (TA-35-188) SWMU Report 33111	
Active as of 10/31/90	TA-35	35-018(b)		Basement	Transformer located in the basement of TA-35-2 where a leak of PCB-contaminated dielectric oil was discovered, cleaned in 1985 and later removed in 1991. There was no spill containment, but no releases into the environment. Evidence of Pu contamination.	Assume source concentration of > 500 ppm	Unknown	SWMU Report 10/31/90 RFI Work Plan 1996?	Notification to EPA through SWMU Report
1/1/1950 no longer active	TA-36	C-36-003	36-1	Outfall	This site is a photo-processing outfall and is located on Mesita de Potrillo near Threemile Canyon	2.8 ppm based on RFI report dated September 1995	Unknown	RFI Report for Field Unit 2: Dated September 1995 w/analytical results and fax dated 8/6/97 stating work at this site continues	Notification to EPA through SWMU Reports

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Inactive 1983 to at least 10/31/90	1A-39	39-002(a)	2	Outside	Potential PCB contamination from storage of used vacuum pump oil and transformer oil	Assume source concentration > 500 ppm; actual concentrations detected to date are 1.1 to 1.6 ppm	Unknown	SWMU Report 10/31/90	Notification to EPA through SWMU Report
1953 to at least 10/31/90	1A-39	39-007(b) [formerly 39- 002(b)]	6	Outside	Concrete pad 5 feet x 5 feet near building 6, waste storage area	Unknown source concentration; assume > 50 < 500 ppm; actual concentrations detected 22.1 - 37.1 ppm	Unknown	SWMU Report 10/31/90	Notification to EPA through SWMU Report
Unknown - 1995	1A-39	39-007(c) [formerly 39-002(c)]	56	Outside	Asphalt paved storage area near building 56	Unknown source concentration; assume > 50 < 500 ppm; actual concentrations detected 1.4 - 1.9 ppm	Unknown	SWMU Report 10/31/90	Notification to EPA through SWMU Report
Unknown - 1995	1A-39	39-007(a)	63	Outside	Waste storage area assumed to be inactive; wastes included waste oil containing lead and solvents	Unknown source concentration; actual concentrations detected ranged from 2.6 to 3100 ppm	Unknown	SWMU Report 10/31/90	Notification to EPA through SWMU Report
1960s	1A-39	39-001(a)	69	Underneath	Disposal trenches located in the flood plain within Ancho Canyon contain among other wastes, PCB- containing oil	Unknown source concentration; assume > 50 < 500 ppm	Unknown	SWMU Report 10/31/90	Notification to EPA through SWMU Report
until at least 10/31/90	1A-39	39-002(f) (deleted because only empty drums were noted)	88	Outside	Waste storage area; potentially stored contaminated transformer oil; no evidence to date that waste containers leaked	Assume > 500 ppm	Unknown	SWMU Report 10/31/90	Notification to EPA through SWMU Report

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Active period prior to 1993, possibly prior to 1972	TA-39	39-006(a)	104 (formerly 12)	Outside	PCBs detected at low concentrations in active and inactive sand filters associated with septic system. Photo. Processing wastes were discharged to the system in the past. practice was discontinued around 1972	Unknown source concentration; assume < 50 - > 500 ppm; actual concentrations < 4.4 ppm and 1.2 - 1.8 ppm	Unknown	SWMU Report 10/31/90	Notification to EPA through SWMU Report
1960s - 1970s	TA-39	39-001(b)	56	Underneath	MDA-Y and two adjacent disposal trenches located near Building 56; wastes included PCB-containing oil	Unknown	Unknown	SWMU Report 10/31/90	Notification to EPA through SWMU Report
1960s - ??	TA-46	46-007	1	Outside, southwest	Treatment ditch used to remove cesium from cells; waste included cells containing cesium metal, broken glassware; PCBs suspected.	No PCBs detected during investigation	Not applicable	SWMU Report 10/31/90; TA-46 RFI Report, 6/96	Notification to EPA through SWMU Report initially, then determined no further action
1958 to at least 10/31/90	TA-46	46-004(g)	1		Ducts and drains in Building 1 may have PCB contamination. Duplicate of 46-004(e)	No PCBs detected during investigation	Not applicable	SWMU Report 10/31/90; TA-46 RFI Report, 6/96	Notification to EPA through SWMU Report initially, then determined no further action
1954 - 1973	TA-46	46-003(a)	8	Septic System	Septic system may have handled industrial wastes also; PCBs detected or suspected.	Unknown source concentration; assume < 50 - > 500 ppm	Unknown	SWMU Report 10/31/90; TA-46 RFI Work Plan, 8/93	Notification to EPA through SWMU Report

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Since at least 10/31/90	TA-46	46-004(h)	16	Ducts/Drains	Industrial drain from TA-46-16	Unknown source concentration; assume > 50 - < 500 ppm	Unknown	SWMU Report 10/31/90; TA-46 RFI Work Plan, 8/93	Notification to EPA through SWMU Report
1956 - 1973	TA-46	46-003(b)	22	Septic System	Septic system may have handled industrial wastes also; PCBs detected or suspected.	Unknown source concentration; assume > 50 - > 500 ppm	Unknown	SWMU Report 10/31/90; TA-46 RFI Work Plan, 8/93	Notification to EPA through SWMU Report
1958 to at least 10/31/90	TA-46	46-004(f)	24	Drain	Drain in building 24; detected or suspected PCBs.	Unknown source concentration; assume > 50 - > 500 ppm	Unknown	SWMU Report 10/31/90; TA-46 RFI Work Plan, 8/93	Notification to EPA through SWMU Report
1958 to at least 10/31/90	TA-46	46-004(m)	30	Drain	Hydraulics laboratory (30) released noncontact cooling water to the ground; suspected PCBs	No PCBs detected during investigation	Not applicable	SWMU Report 10/31/90; TA-46 RFI Report 6/96	Notification to EPA through SWMU Report initially, then determined no further action
1958 to at least 10/31/90	TA-46	46-004(a)	31	Drains	Acid drains from Building 31; detected or suspected PCBs.	Unknown source concentration; assume > 50 - > 500 ppm	Unknown	SWMU Report 10/31/90; TA-46 RFI Work Plan 8/93	Notification to EPA through SWMU Report
1956 to Present	TA-46	46-006(d)	31	Outfall area	Discolored soil along canyon edge (Canada del Buey)	Source concentration unknown; assume > 50 - < 500 ppm; actual concentrations detected 0.05 - 2.0 ppm initially. Later investigations detected 1.2 - 43.4 ppm	Unknown	SWMU Report 10/31/90; DOE Environmental Survey Team Preliminary Report (date unknown). Revised Implementation Plan dated 1/12/90, RFI Report 6/96	Notification to EPA through SWMU Report
Unknown - 1980s	TA-46	46-008(f)	31	Outside	Four barrels of oil which may have been product or waste were stored on the southeast side of building 31; stained soil;	Unknown source concentration; assume > 50 - > 500 ppm	Unknown	SWMU Report 10/31/90; TA-46 RFI Work Plan 8/93	Notification to EPA through SWMU Report

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Unknown to at least 10/31/90	TA-46	46-010(d)	41	Outside storage area	Container storage area wastes include acetone, methanol, ethanol, liquid absorbed on wipes, vacuum pump oils; suspected PCBs	No PCBs detected during investigation	Not reported, det.	SWMU Report 10/31/90, TA- 46 RFI Work Plan 8/93	Notification to EPA through SWMU Report
1956 - 1973	TA-46	46-003(b)	49	Septic System	Septic system may have handled industrial wastes also; PCBs detected or suspected; drainline may have discharged into Canada del Buey;	Unknown source concentration; assume < 50 > 500 ppm	Unknown	SWMU Report 10/31/90, TA- 46 RFI Work Plan 8/93	Notification to EPA through SWMU Report
1956 - 1973	TA-46	46-003(d)	53	Septic System	Septic system may have handled industrial wastes also; PCBs detected or suspected;	Unknown source concentration; assume < 50 > 500 ppm	Unknown	SWMU Report 10/31/90, TA- 46 RFI Work Plan 8/93	Notification to EPA through SWMU Report
1958 to at least 10/31/90	TA-46	46-004(c)	61	Sump	Sump collected industrial liquid waste from acid drains from Building 31 and tank 81; NPDES outfall 043 discharged into Canada del Buey; detected or suspected PCBs;	Unknown source concentration; assume < 50 > 500 ppm	Unknown	SWMU Report 10/31/90, TA- 46 RFI Work Plan 8/93	Notification to EPA through SWMU Report
1960 - 1973	TA-46	46-003(c)	66	Septic System	Septic system may have handled industrial wastes also; PCBs detected or suspected;	Unknown source concentration; assume < 50 > 500 ppm	Unknown	SWMU Report 10/31/90, TA- 46 RFI Work Plan 8/93	Notification to EPA through SWMU Report

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1958 to at least 10/31/90	TA-46	46-004(d)	69	Sump	Sump connected in series to either a laboratory and shop (58) or Building 16; the sumps were abandoned after 1973; detected or suspected PCBs.	Unknown source concentration; assume .50 - > 500 ppm	Unknown	SWMU Report 10/31/90; TA-46 RFI Work Plan 8/93	Notification to EPA through SWMU Report
1958 to at least 10/31/90	TA-46	46-004(e)	70	Sump	Sump connected in series to either a laboratory and shop (58) or Building 16; the sumps were abandoned after 1973; detected or suspected PCBs;	Unknown source concentration; assume .50 - > 500 ppm	Unknown	SWMU Report 10/31/90; TA-46 RFI Report 8/93	Notification to EPA through SWMU Report
Unknown - 1980s	TA-46	46-008(g)	76	Outside	Storage of 20 drums of waste directly on the ground; wastes were reportedly waste acids, chemicals, oils, out-of-service transformers, power supplies, waste oil, untested dielectric oil; stained soil;	Unknown source concentration; assume .50 - > 500 ppm	Unknown	SWMU Report 10/31/90; TA-46 RFI Work Plan 8/93	Notification to EPA through SWMU Report

**PCB SPILLS REPORTED
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1976 to at least 10/31/90	TA-46	46-003(h)	77	Drain	Warehouse was discharging untreated sanitary waste (assume to Canada del Buey) in 1976 and was rerouted to the sanitary lagoon. Unknown when discharge stopped. PCBs detected or suspected	No PCBs detected during investigation	Not applicable	SWMU Report 10/31/90, TA-46 RFI Report 6/96	Notification to EPA through SWMU Report
1958 to at least 10/31/90	TA-46	46-004(b)	81	Drains	Acid drains from tank 81; detected or suspected PCBs	No PCBs detected during investigation	Not applicable	SWMU Report 10/31/90, TA-46 RFI Report 6/96	Notification to EPA through SWMU Report
Unknown - 1980s	TA-46	46-008(a)	88		Storage area that included waste oil, out-of-service transformers, chemicals and other wastes; stained soil; suspected PCBs;	Unknown concentration; assume < 50 - > 500 ppm	Unknown	SWMU Report 10/31/90, TA-46 RIF Work Plan 8/93	Notification to EPA through SWMU Report
1960 - 1974	TA-46	46-003(i)	94	Septic System	Septic system may have handled industrial wastes also; PCBs detected or suspected;	Unknown source concentration; assume < 50 - > 500 ppm	Unknown	SWMU Report 10/31/90; TA-46 Work Plan 8/93	Notification to EPA through SWMU Report
1973 to at least 10/31/90	TA-46	46-002	149	Sanitary lagoon	Sanitary lagoon lined with Gunite discharges through a sand filter to Canada del Buey; chemical drains were connected to the lines to the lagoon;	Unknown source concentration; assume . 50 ppm - > 500 ppm	Unknown	SWMU Report 10/31/90, TA-46 RFI Work Plan 8/93	Notification to EPA through SWMU Report

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Unknown	TA-46	46-009(b)	149	Surface Disposal south	Disposal area south of sanitary lagoon 149 contains sand from the sanitary lagoon sand filter on the mesa above that has lost its filtering capability; suspected PCBs;	Unknown source concentration; assume < 50 ppm - > 500 ppm	Unknown	SWMU Report 10/31/90; TA-46 RFI Work Plan 8/93	Notification to EPA through SWMU Report
to at least 10/31/90	TA-46	46-006(c)	158	Drainage ditch	Oil was noted in a drainage ditch near building 158	No PCBs detected during investigation	Not applicable	SWMU Report 10/31/90; DOE Environmental Survey Team Preliminary Report (date unknown); Revised Implementation Plan dated 1/12/90; TA-46 RFI Report 6/96	Notification to EPA through SWMU Report
Late 1980s to at least 10/31/90	TA-46	46-005	170	Surface Impoundment	Surface impoundments (170 and 171) used for solar experiments, now used for sanitary waste; suspected PCBs;	Unknown source concentration; assume < 50 > 500 ppm	Unknown	SWMU Report 10/31/90; TA-46 RFI Work Plan 8/93	Notification to EPA through SWMU Report
OSDS to at least 10/31/90	TA-46	46-005	171	Surface Impoundment	Surface impoundments (170 and 171) used for solar experiments, now used for sanitary waste; suspected PCBs;	Unknown source concentration; assume < 50 > 500 ppm	Unknown	SWMU Report 10/31/90; TA- 46 RFI Work Plan 8/93	Notification to EPA through SWMU Report

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1956 to at least 10/31/90	TA-46	46-006(b)	197	Ditch	Oil was noted in a drainage ditch near shed 197; oil-like substance leaking from and around shed 197; past spills include SF ₆ corner of shed upgradient of stormdrain. Soil stained where drain daylight outside TA fence	No PCBs detected during investigation	Not applicable	SWMU Report 10/31/90; DOE Environmental Survey Team Preliminary Report (date unknown); Revised Implementation Plan dated 1/12/90; TA-46 RFI Report 6/96	Notification to EPA through SWMU Report. Not identical, although addressed in Revised Implementation Plan under response to Environmental Problem 19 of DOE survey
Active to at least 10/31/90	TA-46	46-003(g)	230	Septic System	Septic system may have handled industrial wastes also; PCBs detected or suspected;	Unknown source concentration; assume < 50 > 500 ppm	Unknown	SWMU Report 10/31/90; TA-46 RFI Work Plan 8/93	Notification to EPA through SWMU Report
Unknown - 1980s	TA-46	46-008(e)	255	Outside	Four barrels of what may have been waste vacuum oil on the east side of building 255; stained soil;	Unknown source concentration; assume < 50 > 500 ppm	Unknown	SWMU Report 10/31/90; TA-46 RFI Work Plan 8/93	Notification to EPA through SWMU Report
Unknown - 1980s; survey 11/88	TA-46	46-008(d)	262	Outside	Two unlabeled drums of oil; suspected PCBs; stained soil;	Unknown source concentration; assume < 50 > 500 ppm	Unknown	SWMU Report 10/31/90; TA-46 RFI Work Plan 8/93	Notification to EPA through SWMU Report
1958 to at least 10/31/90	TA-46	46-004 (p) - (z)		Outfalls	Outfalls	No PCBs detected during investigation	Not applicable	SWMU Report 10/31/90; TA-46 RFI Report 6/96	Notification to EPA through SWMU Report

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1956 to at least 10/31/90	TA-46	46-006(a)	1, 42	Drainage ditch	15 drums of dielectric oil stored in a drainage ditch between and north of 1 and 42, east of Manifold 71; analyses detected Arochlor 1221 and 1254; no information on concentrations	No PCBs detected during investigation	Not applicable	SWMU Report 10/31/90; DOE Implementation Plan 3/06/91; DOE RFI Report 6/96	Notification to EPA through SWMU Report
Unknown - 1980s	TA-46	46-008(b)	6, 15	Manholes	Drums stored near manholes; waste types included waste oils, stained soil	No PCBs detected during investigation	Not applicable	SWMU Report 10/31/90; RFI Report 6/96	Notification to EPA through SWMU Report
Unknown	TA-46	46-009(a)		Surface Disposal	Fill area at the head of a tributary to Canada del Buey; potentially an inactive landfill; suspected PCBs;	Unknown source concentration; assume < 50 > 500 ppm	Unknown	SWMU Report 10/31/90; RFI Work Plan 8/93	Notification to EPA through SWMU Report
						Source concentration: #5548 - 40.3 ppm; #5549 - 51.9 ppm	#5548 - 3 gallons; #5549 - 1 gallon	SWMU Report 10/31/90; TA-48 Work Plan, PCB Program memos, analytical results, sample locations	Notification to EPA through SWMU Report
09/13/89	TA-48	48-008	1	26	Two transformers leaking PCB contaminated oil in Room 26 east side of basement TA-48-1. ID No. 5549 leaking from top valve in 1987 and ID No. 5548 leaking Sept. 1989. Both produced 4 gal. of contaminated oil. Leaked onto floor. Did not flow from room				

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Unknown	TA-48	48-009	1		Two air compressors located in caged area on loading dock east of TA-48-1 breakdown every 2-3 months and leave oil stains on the ground. Absorbent clay material placed on ground and removed after each breakdown. A trail of visible oil stains extends 200	Unknown if air compressors contain PCBs not sampled	Unknown	SWMU Report 10/31/90, TA-48 Work Plan	Notification to EPA through SWMU Report
1959 - 1961	TA-49	49-008(a)	Area 5		Soil contamination from operations associated with decommissioned buildings 3, 6, 8, 20, 96, 104, 105, 106, Area 5; suspected PCBs	Unknown source concentration; assume > 500 ppm	Unknown	SWMU Report 10/31/90	Notification to EPA through SWMU Report
1968-Present(L) 06/06/97(11)	TA-53	53-001(a)	2	Waste Storage Area Building North of Bldg. 2	This site was formerly a satellite storage area	<4ppm	VCA Plan in progress	SWMU Report and fax dated 08/06/97	Notification to EPA through WSMU Report

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1969 - 1986	TA-53	53-005	2	Disposal pit	Disposal pit for shop operations at building 2; unlined and contained oil and water; pit removed in 1986; liquid was sucked out, walls scraped and drummed; PCBs detected in liquid 4 - 5 ppb	Unknown concentration; assume < 50 - > 500 ppm	Unknown	SWMU Report 10/31/90; Unverified data from ER waste volume projection database	Notification to EPA through SWMU Report
Active until at least 10/31/90	TA-53	53-011(d)	71	Outside	PCB transformer reported to have a moderate leak during a transformer assessment; reported to have a moderate leak requiring installation of a drip pan; PCB ID# 5034; tranformer was dripping into a porous concrete block	Source concentration assumed to be > 500 ppm	Unknown	SWMU Report 10/31/90	Notification to EPA through SWMU Report
1960s until at least 10/31/90	TA-53	53-002(a)	166	Lagoons	Clay-lined lagoons operated in series then discharged to Los Alamos Canyon; PCBs detected in the sludge; third lagoon 53-002(b) was constructed in 1986 and lagoons discharged to it	Unknown source concentration; assume > 500 ppm	Unknown	SWMU Report 10/31/90; Unverified data from ER waste volume projection database	Notification to EPA through SWMU Report

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Active until at least 10/31/90	TA-53	53-011(a)	184	Outside	PCB transformer reported to have a moderate leak during a transformer assessment; reported to have a moderate leak requiring installation of a drip pan; PCB ID# 5054; extent of environmental release unknown	Source concentration assumed to be > 500 ppm	Unknown	SWMU Report 10/31/90	Notification to EPA through SWMU Report
Active until at least 10/31/90	TA-53	53-011(b)	196	Outside	PCB transformer reported to have a moderate leak during a transformer assessment; reported to have a moderate leak requiring installation of a drip pan; PCB ID# 5043; extent of environmental release unknown	Source concentration assumed to be > 500 ppm	Unknown	SWMU Report 10/31/90	Notification to EPA through SWMU Report
Active before 10/1/89	TA-54	54-022	75 (formerly 00- 1057)	Inside	Transformer at the White Rock Pump Station leaked; maximum capacity 10 gallons; removed on 10/1/89	Source concentration < 634 ppm	Unknown	SWMU Report 10/31/90; FUS update (7/11/97)	Notification to EPA through SWMU Report
Active 1981 - 1990	TA-54	54-020	MDA-G	Underground	Thirteen disposal shafts containing radioactive PCB contaminated oils; potential exists for releases from containers	Source concentration assumed to be > 500 ppm	Unknown	SWMU Report 10/31/90; FUS update (7/11/97)	Disposal practice covered under PCB Disposal Approval issued in 1980

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Unknown - Present as of 10/31/90	TA-54	54-002		Outside	Gas cylinder storage area; suspected PCBs	Source concentration unknown; assume > 50 - 500 ppm	Unknown	SWMU Report 10/31/90; FUS update (7/11/97)	Notification to EPA through SWMU Report
1970s - Present as of 10/31/90	TA-60 (formerly TA-3)	60-001(a) (formerly 3-001(g))	1 (formerly 382)	Outside	Active container storage area; wastes stored include paint booth wastes, used batteries, empty drums, waste oil; stained soil; suspected PCBs;	Unknown source concentration; assume > 50 - > 500 ppm	Unknown	SWMU Report 10/31/90; OU 1114 RFI Work Plan (LA-UR- 93-1000)	Notification to EPA through SWMU Report
Unknown to at least 10/31/90	TA-60 (formerly TA-3)	60-004(a) [formerly 3- 005(a)]	Sigma Mesa	Outside	Storage area half way to the end of the mesa; wastes included old out- of-date equipment and general debris, non- PCB oils; suspected PCBs;	Source concentration assumed to be > 500 ppm	Unknown	SWMU Report 10/31/90; OU 1114 RFI Work Plan (LA-UR- 93-1000)	Notification to EPA through SWMU Report
Unknown to at least 10/31/90	TA-60 (formerly TA-3)	60-004(b) [formerly 3- 005(b)]	Sigma Mesa	Outside	Storage area near the end of mesa; wastes were 12 drums containing diesel sludge from USTs at the Western Stm Plant during decommissioning, transformers containing oil, and large vessels contents unknown; suspected PCBs;	Source concentration assumed to be > 500 ppm	Unknown	SWMU Report 10/31/90; OU 1114 RFI Work Plan (LA-UR- 93-1000)	Notification to EPA through SWMU Report

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Unknown to at least 10/31/90	TA-60 (formerly TA-3)	60-004(e)	Sigma Mesa	Outside	Storage area east of the geothermal well pad. 1989 ER recon survey identified 5 transformers, 4 large dumpsters, stainless steel piping, corrugated tin, 6 large fans and 5 stg tnks (3k to 5k gals each); suspected PCBs.	Source concentration assumed to be 500 ppm	Unknown	SWMU Report 10/31/90; RFI Report to EPA on TA-3 10/31/90	Notification to EPA through SWMU Report
1974 to present	TA-61	61-005 (formerly 0- 006)		Landfill	Active municipal landfill on East Jemez Road, operated by Los Alamos County for both the county and LANL use. Wastes include primarily nonhazardous waste but potential contaminants could include volatiles, semivolatiles, pesticides, PCBs, metals	Unknown	Unknown	SWMU Report 10/31/90; OU 1114 RFI Work Plan (LA-UR- 93-1000)	Notification to EPA through SWMU Report

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08/01/89	TA-61	61-007 (formerly 0-023)		Outside	During sewer construction activities, PCBs were encountered in the soil along East Jemez Rd near the Mountain Mobile Mix cement plant. An additional apparently isolated site was located 75' west of the original site;	Actual concentrations of PCBs ranged from 4300 ppm to > 10 ppm; higher concentrations thought to be present in the area; 1, 2, 4 trichlorobenzene was also detected	Unknown, area was auger sampled and soil excavated along the trench route apparently an area 25' long x trench width x 20' deep in one place; contaminated soil was transported to TA-54, Area G in dump trucks	SWMU Report 10/31/90; PCB Program Spill Report files (memo, analytical data); OU 1114 RFI Work Plan (LA-UR-93-1000)	Notifications were made to EPA who set the cleanup level to 100 ppm in the soil in the bottom of the trench
Inactive since 1988	TA-61 (formerly TA-3)	61-002 (formerly 3-003C)	23 (formerly 282)	Outside	Fenced area outside Building 23 included a storage area for capacitors, transformers, and other electrical equipment. PCB-marked equipment noted to be leaking;	Unknown source concentration; assume > 500 ppm; suspected < 10 ppm present	Unknown	SWMU Report 10/31/90; OU 1114 RFI Work Plan (LA-UR-93-1000)	Notification to EPA through SWMU Report