7057 G-000-711.123

OHIO ENVIRONMENTAL PROTECTION AGENCY DIRECTOR'S FINDINGS AND ORDERS AND SECTION IV CONCENT DECREE REPORT - TECHNICAL PROGRESS REPORT FOR APRIL 1, 1995 THROUGH JUNE 30, 1995

07/19/95

DOE-1240-95
DOE-FN EPAS
75
REPORT

cc w/enc:

Administrative Record/FERMCO

cc w/enc (except boring logs):

J. M. Owendoff, EM-40/FORS
K. A. Chaney, EM-424/QO
J. Van Kley, Ohio AGO
J. S. Rogers, DOJ
P. Harris, OEPA-Dayton
G. E. Mitchell, OEPA-Dayton
P. Pardi, OEPA-Dayton
J. A. Saric, USEPA-V
A. E. Hunt, FERMCO
R. L. Glenn, Parsons

7057

Department of Energy
Fernald Environmental Management Project
P. O. Box 398705
Cincinnati, Ohio 45239-8705
(513) 648-3155

JUL 1 9 1995

DOE-1240-95

Mr. Thomas A. Winston, District Chief
Ohio Environmental Protection Agency
Southwest District Office
401 East 5th Street
Dayton, Ohio 45402-2911

Dear Mr. Winston:

OHIO ENVIRONMENTAL PROTECTION AGENCY DIRECTOR'S FINDINGS AND ORDERS AND SECTION IV CONSENT DECREE REPORT - TECHNICAL PROGRESS REPORT FOR APRIL 1, 1995 THROUGH JUNE 30, 1995

Enclosed is the Quarterly Technical Progress Report describing Fernald Environmental Management Project (FEMP) progress with respect to compliance with the Stipulated Amended Consent Decree and the Ohio Environmental Protection Agency (OEPA) Director's Findings and Orders.

In addition to this report, the following are enclosed:

- Revised 1994 RCRA Facility Annual Hazardous Waste Report.
- Revised Table C-4, which provides a list of all waste streams identified under the Stipulated Amended Consent Decree, as well as waste streams identified as a result of routine Resource Conservation and Recovery Act (RCRA) determinations. A table specifying the changes has been added.
- Copies of Soil Boring Logs for this reporting period.

If you have any questions, please contact Ed Skintik at (513) 648-3151.

Sincerely,

Jack R. Craig
Director

FN:Skintik

Enclosure: As Stated

Recycled and Recyclable

OHIO ENVIRONMENTAL PROTECTION AGENCY
DIRECTOR'S FINDINGS AND ORDERS AND SECTION IV CONSENT DECREE
QUARTERLY TECHNICAL PROGRESS REPORT

April 1, 1995 - June 30, 1995

Introduction

Section 4.13 of the Stipulated Amended Consent Decree requires that beginning October 20, 1990, and continuing on the twentieth day of every third month thereafter, DOE shall submit a quarterly technical progress report to Ohio EPA. In accordance with this section, the option of combining this report with ongoing reports being submitted pursuant to the Director's Findings and Orders issued June 4, 1987, is exercised.

This report describes activities at the Fernald Environmental Management Project (FEMP) from April 1, 1995 through June 30, 1995, and status as of June 30, 1995. The report contains two sections. Section I addresses outstanding commitments contained within the Stipulated Amendment to the Consent Decree. Section II pertains to compliance with Section IV of the Consent Decree, and incorporates remaining outstanding items from the Ohio EPA Director's Findings and Orders that have not been addressed within the Consent Decree.

OHIO ENVIRONMENTAL PROTECTION AGENCY
DIRECTOR'S FINDINGS AND ORDERS AND SECTION IV CONSENT DECREE
QUARTERLY TECHNICAL PROGRESS REPORT

April 1, 1995 - June 30, 1995

Section I - Stipulated Amended Consent Decree

Section	Activity	Status
3.5.1.(D)(I)	Submit report on results and analysis for remaining drums identified under the Stipulated Amended Consent Decree by September 30, 1992.	**COMPLETE.** Sampling and analysis report was submitted to the Ohio EPA on September 25, 1992.
3.8(B)	Daily/weekly inspection of Plant 1 Pad.	**ONGOING.** Inspections are performed as required to meet the proposed requirements.
3.11	Report all Hazardous Waste Management Units (HWMU).	**ONGOING.** On June 24, 1995, DOE submitted to Ohio EPA consumption records for the Primary Calciner. Ohio EPA requested the records in a letter transmitted to DOE on February 14, 1995. Ohio EPA will review the records prior to determining DOE's reclassification request on the unit. The Hilco Oil Recovery System reclassification effort continues to date. Once all the necessary information pertaining to the unit is obtained, a reclassification request letter will be submitted to Ohio EPA.

Section II - Consent Decree

Section	Activity	Due Date	Status
4.9	Perform cleanout of SWRB (when approximately 150,000 gallons of sediment is accumulated) at 24-month intervals on maintenance schedules approved in the SWRB PTI.		AS REQUIRED. The SWRB west chamber was inspected in July 1993 and several leaks in the liner were noted. The integrity of the entire liner system is not in jeopardy. The solids were transported to Plant 8 via the FEMP "Super Sucker" vacuum truck. Use of the new line constructed for the SPIT Project, as previously reported in the Quarterly Report, proved to be less efficient. The solids were stored in dedicated tankage and processed through the existing EIMCO vacuum filter. Approximately 1650 drums of solids have been shipped to NTS. Approximately 60 drums remain to be shipped. Repair of the last few leaks (holes) in the liner were completed during the first week of July 1994. Re-evaluation and monitoring of the leak detection system should be completed within the next quarter. The East basin continues to show no indication of leaking. Inspection of the East Basin is scheduled for December 1995. The sediment level in the East basin has been revised from the Mid-March indication of a maximum 6-inch depth and average depth of 4-inches. The revised readings based on actual grid measurements indicate an average depth of 2-3/4 inches over the bottom of the basin (Nominally 190' x 190'). This equates to approximately 62,000 gallons of sediment accumulation. In the process of preparing a requisition for sludge removal equipment for SWRB and BSL.
4.9	Perform cleanout of BSL (when approximately 500,000 gallons of sediment is accumulated, but no more than once per year, as stated in the BSL PTI).	7/30/95	AS REQUIRED. The lagoon was evaluated for cleanout in September 1994. The volume of sediment was below the level requiring cleanout. The next survey is scheduled for July 1995.

OHIO ENVIRONMENTAL PROTECTION AGENCY
DIRECTOR'S FINDINGS AND ORDERS AND SECTION IV CONSENT DECREE
QUARTERLY TECHNICAL PROGRESS REPORT

April 1, 1995 - June 30, 1995

Section	Activity	Due Date	Status
4.11(A)	Implement a Best Management Practices (BMP) Plan after approval by Ohio EPA for control of wastes that may be discharged from the FEMP.	4/18/88	ONGOING. The Ohio EPA approved the BMP Plan on 7/10/89. Documentation for required actions is being reviewed to assure that all requirements of the plan have been satisfied. Follow-up actions are being identified based on this review.
4.11(B) DFO11	Maintain BMP Plan.		ONGOING. See previous item.
4.11(C)	Amend BMP whenever there is a change in the facility which has the potential to affect the discharging of waste.		AS REQUIRED. No amendments were required during the reporting period. The BMP committee has reviewed the plan to determine what modifications are needed. A comprehensive revision of the BMP Plan is presently in preparation. Issue of this revision to the Ohio EPA for approval is anticipated during CY1995.
4.11(D) DFO 13	If requested by Ohio EPA, modify the BMP Plan within 45 days.		AS REQUIRED. No requests for modifications were received during the reporting period.
4.12	Modify the Zone of Influence Study Report within 30 days of Ohio EPA request.		AS REQUIRED. No requests for changes and/or additions to the report were received during the reporting period.
(DFO) 14(A)	Study the integrity of the FEMP outfall.		COMPLETED. A new effluent/outfall line was installed as part of Removal Action 3 - South Groundwater Contamination Plume. This task was identified as part of the work plan for Part 2 of the South Plume Removal Action submitted to the Ohio EPA. The new outfall line was designed to handle future FEMP remediation flows. The line was placed into operation on May 1, 1993. The existing line was subsequently removed from service and will be remediated in the future. Investigation of past possible leakage of the original outfall line was completed as a work plan addendum for Operable Unit 5 and results incorporated in the OU5 RI report.

Section	Activity	Due Date	Status
4.14	Comply with any permits issued to DOE pursuant to ORC 6111.03 (J) with regard to sewage, industrial wastes or other wastes, and to comply with OAC 3745-31-02 and any permits issued pursuant to OAC 3745-31-02.		ONGOING. Compliance with issued permits is ongoing. During May, 29 exceedances of the pH limit at Manhole 175 occurred. These were due to discharge of high pH wastewater from the General Sump, normally routed to the Biosurge Lagoon. The change in discharge was necessary due to heavy rains, in order to avoid overflow of the BSL. The pH of the actual discharge to the river (downstream of Manhole 175) was within acceptable limits. During May, 2 fecal coliform exceedances occurred due to an inoperable UV disinfection unit; the unit has been repaired.

OHIO ENVIRONMENTAL PROTECTION AGENCY
DIRECTOR'S FINDINGS AND ORDERS AND SECTION IV CONSENT DECREE
QUARTERLY TECHNICAL PROGRESS REPORT

April 1, 1995 - June 30, 1995

1994 RCRA ANNUAL REPORT

The 1994 RCRA Annual Report must be modified to incorporate information developed during ongoing characterization efforts. Attached is the revised 1994 Facility Annual Hazardous Waste Report section. There were sixteen inventory revisions this quarter to report for waste streams generated prior to 1995. There were ten waste streams generated prior to 1995 added to the report. Three waste streams that were previously listed as pending have been characterized as RCRA hazardous waste. All of these changes are noted by shaded lines.

The following is a list of corrections and additions to this section:

* Page 5, Line 21, corrected the amount to 31,014 lbs
* Page 6, Line 27, corrected the amount to 12,704 lbs
* Page 6, Line 28, corrected the amount to 83,165 lbs
* Page 9, Line 52, corrected the amount to 16,296 lbs
* Page 15, Line 96, corrected the amount to 125,446 lbs
* Page 16, Line 105, corrected the amount to 5,705 lbs
* Page 16, Line 111, corrected the amount to 3,576 lbs
* Page 22, Line 164, corrected the amount to 55,211 lbs
* Page 27, Line 212, corrected the amount to 31,873 lbs
* Page 28, Line 221, corrected the amount to 294 lbs
* Page 31, Line 242, corrected the amount to 386 lbs
* Page 32, Line 250, corrected the amount to 16,292 lbs
* Page 33, Line 260, corrected the amount to 72,036 lbs
* Page 33, Line 266, corrected the amount to 5,947 lbs
* Page 35, Line 284, corrected the amount to 174,856 lbs
* Page 36, Line 295, corrected the amount to 23,931 lbs
* Page 43, added lines 356 - 365

For the next three corrections, characterizations have been completed on previously pending waste streams. EPA waste codes are adjusted to match the codes determined as a result of analysis and the completed characterization.

* Page 48, Line 44P, corrected the EPA Codes from D001, F001 to D001, D008, D018

* Page 48, Line 45P, corrected the EPA Codes from D008, F002 to D006, D008, D009, D018, D019, D021, D035, D039, D040, F002

* Page 49, Line 52P, corrected the EPA Codes from D001, D002, D007 to D001, D008, D009, D018, F002

OHIO ENVIRONMENTAL PROTECTION AGENCY

1994 FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31,1994

The information requested herein is required by Rules 3745-54-75 and 3745-65-75 as applicable of the Ohio Administrative Code.

REFER TO THE SPECIFIC INSTRUCTIONS CONTAINED IN THIS BOOKLET BEFORE COMPLETING THIS FORM.

Please print/type with elite type (12 characters per inch)

LABEL BELOW IS FOR REFERENCE ONLY; SECTIONS I. THROUGH VII. MUST BE COMPLETED.

OH6890008976 EPA ID. SIC CODE [illegible]
US DOE FERNALD ENV MGMT PROJECT
7400 WILLEY ROAD
FERNALD OH 45030-
RAST DAVID A (513) [illegible]-3136

I. FACILITY'S EPA I.D. NUMBER

OH6890008976

II. NAME OF FACILITY

US DOE FERNALD ENV MGMT PROJECT

III. FACILITY MAILING ADDRESS

PO BOX 538705

Street or P.O. Box

CINCINNATI — City or Town

OH — State

45253-8705 — Zip Code

IV. LOCATION OF FACILITY

7400 WILLEY ROAD — Street

31 — County Code

FERNALD — City or Town

OH — State

45030 — Zip Code

4953 — Primary SIC Code

V. FACILITY CONTACT

RAST DAVID M — Name (last and first)

513-648-3138 — Phone No. (area code & no.)

VI. COST ESTIMATES FOR FACILITY

A. Cost Estimate for Facility Closure

$ NA , , .00

B. Cost Estimate for Post Closure Monitoring and Maintenance (disposal facilities only)

$ NA , , .00

VII. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

JACK R. CRAIG — Print/Type Name

DIRECTOR, FERNALD OHIO — Title

Signature of Authorized Representative

Date Signed

EPA 9020

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. SCD987588084

X. Generator name Clemson Technical Center

XI. Generator's Address

Street 100 Technology Drive

City Anderson

State: South Carolina

Zip Code 29625

XII. Waste Identification

LINE	A. DESCRIPTION OF WASTE	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
1	LAB GENERATED WASTE, ACID DIGESTATES	S01	D002	D004	462	P
2	LAB GENERATED WASTE, ACID DIGESTATES	S01	D002		1,845	P
3	LAB GENERATED WASTE, ACID DIGESTATES	S01	D002 D018	D008	426	P
4	LAB GENERATED WASTE, FLAMMABLE ORGANICS	S01	D001	D002	296	P
5						
6						
7						
8						

XIII. Comments:

Page 1, Section VI – Cost Estimates – Federal Agencies are exempted from the requirements of OAC 3745-66-40 through 3745-66-48 by OAC 3745-66-40.
Page 2, Lines 1-4, This waste was generated as a result of characterization or treatability studies on Fernald Environmental Management Project waste samples. In accordance with DOE Order 5820.2A it cannot be sent to a commercial facility for disposal. It must instead be returned to the Fernald site.

Ohio Environmental Protection Agency
FACILITY ANNUAL HAZARDOUS WASTE REPORT
For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information
IX. Generator's EPA I.D. No. TND982116493
X. Generator name IT Corp. Oak Ridge Laboratory
XI. Generator's Address
Street 1550 Bear Creek Road
City Kingston
State: Tennessee
Zip Code 37763

XII. Waste Identification

LINE	A. DESCRIPTION OF WASTE	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
1	RADIOACTIVE ACIDIC LAB WASTE FROM SAMPLE ANALYSIS	S01	D001 D007 D009 D035 D040	D006 D008 D018 D039	23,224	P
2	RADIOACTIVE CAUSTIC LAB WASTE FROM SAMPLE ANALYSIS	S01	D001 D006 D009 D035 D039	D002 D008 D018 D038	3,341	P
3	RADIOACTIVE NEUTRAL LAB WASTE FROM SAMPLE ANALYSIS	S01	D001 D007 D009 D035 D040	D006 D008 D018 D039	5,067	P
4						
5						

XIII. Comments:
Lines 1, 2, & 3, This waste was generated as a result of characterization or treatability studies on Fernald Environmental Management Project waste samples. In accordance with DOE Order 5820.2A it cannot be sent to a commercial facility for disposal. It must instead be returned to the Fernald site.

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
1	ACETONITRILE IN WATER	S01	D001		1	P
2	CLEAR DISPERSANT, TYPE H BLACK, CYAN, ETC.	S01	D001		77	P
3	CLEAR DISPERSANT, TYPE H CONCENTRATE	S01	D001		60	P
4	CONTAMINATED NON-BURNABLE	S01	D001		3,183	P
5	CURING COMPOUND	S01	D001		383	P
6	DIRT, ROCKS AND WOOD WITH LIQUID	S01	D001		244	P
7	DISCARD PROCESS RESIDUE	S01	D001		395	P
8	DISCARD PROCESS RESIDUE	S01	D001		8,095	P
9	DRAW TEMP 275	S01	D001		203	P
10	ETHYL ACETATE	S01	D001		960	P
11	FLAMMABLE PAINTS AND RELATED PRODUCTS	S01	D001		1,567	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
12	FLOOR COATING BASE	S01	D001		783	P
13	FURNACE SALT NON-CHLORIDE	S01	D001		169	P
14	GREASE AND WATER	S01	D001		249	P
15	HYDROGEN PEROXIDE SOLN.	S01	D001		2,002	P
16	IGNITABLE LIQUID, UKNOWN ORIGIN	S01	D001		283	P
17	KEROSENE	S01	D001		202	P
18	MAGNESIUM POWDER AND TURNINGS	S01	D001		965	P
19	METHANOL & CYCLOHEXANE MIXTURE	S01	D001		7,678	P
20	NON-CHLORIDE CONTAMINATED SUMP LIQUOR	S01	D001		1,914	P
21	NON-OILY SLUDGE FOR ROASTING	S01	D001		31,014	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
22	NON-RECOVERABLE TRASH	S01	D001		73	P
23	NON-RECOVERABLE TRASH	S01	D001		212	P
24	OFF SPEC PAINT	S01	D001		967	P
25	OILY SLUDGE FOR OXIDATION	S01	D001		643	P
26	OILY SLUDGES FROM PLANT 5 METAL REDUCTION	S01	D001		338	P
27	OILY SLUDGES, HIGH FREE METAL	S01	D001		12,704	P
28	SUMP CAKE – COPPER CONTAMINATED	S01	D001		83,165	P
29	UNFIRED REDUCTION CHARGES PLUS CaF2	S01	D001		2	P
30	UNSPECIFIED IGNITABLE LIQUID	S01	D001		373	P
31	USED HEPTANE MIXTURE	S01	D001		613	P
32	SPENT ACETONE	S01	D001		2,180	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
33	VARNISH – UNUSED	S01	D001		197	P
34	XYLENE	S01	D001		290	P
35	LAB GERATED WASTE, FLAMMABLE ORGANICS	S01	D001	D002	649	P
36	DIGESTION WASTE, NITRIC AND CYCLOHEXANE	S01	D001 D005 D007 D010	D004 D006 D008 D011	1,308	P
37	LAB GENERATED WASTE OIL FROM TCLP EXTRACTS	S01	D001 D006 D010	D004 D008	113	P
38	FURNACE SALT, NON–CHLORIDE	S01	D001 D008	D004	1,838	P
39	MIXED ORGANICS FROM BLDG 15 PROCESS DEVELOPMENT	S01	D001 D008	D004 D010	933	P
40	WASTE OIL FROM PLANT 8 MAINTENANCE	S01	D001 D006 D008 F002	D005 D007 D010	17,148	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
41	CONTAMINATED SOLVENT, PAINT SHOP	S01	D001 D007 D009 D011 F002 F005	D005 D008 D010 D019 F003	24,767	P
42	PAINT, GRAY EPOXY	S01	D001	D006	287	P
43	CONTAMINATED SOLVENTS	S01	D001 D008 D019	D006 D009 F002	401	P
44	USED OIL	S01	D001 D008 D039 F002	D006 D009 F001	437	P
45	USED OIL/SOLVENT FROM PLANT 7 MAINTENANCE	S01	D001 D008 F002	D006 D010	1,264	P
46	USED OIL AND SOLVENTS FROM GARAGE	S01	D001 D008 F005	D006 F002	18,198	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
47	1,1,1-TRICHLOROETHANE	S01	D001 F001	D006 F002	23	P
48	CONTAMINATED SOLVENTS FROM WATER TREATMENT	S01	D001	D007	337	P
49	SOLVENT SLUDGE	S01	D001	D007	428	P
50	IMPURE THORIUM NITRATE (SOLID)	S01	D001 D008	D007	1,845	P
51	IMPURE THORIUM NITRATE (SOLID)	S01	D001 D008	D007	4,405	P
52	USED CHLORINATED SOLVENT MIXTURE	S01	D001 D008 D039	D007 D009 F002	16,296	P
53	CONTAMINATED WATER/SUMP LIQUOR, UNKNOWN SOURCE	S01	D001 D008	D007 D010	426	P
54	FLAMMABLE AEROSOLS	S01	D001 D008 D019 D039	D007 D018 D035	35	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
55	CONTAMINATED INSOLUBLE OIL FROM MAINTENANCE	S01	D001 D008 D040	D007 D019 F002	9,544	P
56	USED SOLVENT FROM GARAGE	S01	D001 D008	D007 F002	336	P
57	PAINT WASTE FROM PAINTING BOOTH	S01	D001 D008 F003	D007 F002 F005	1,260	P
58	OIL AND FUEL FROM GARAGE	S01	D001	D008	784	P
59	OIL AND WATER FROM DRUM DECON. PAD	S01	D001	D008	1,042	P
60	SPILL CLEANUP FROM K-65 AREA	S01	D001	D008	429	P
61	TBP, KEROSENE, DAAP AND SOLVESSO	S01	D001	D008	230	P
62	USED PAINT THINNER	S01	D001 D009 F003	D008 D035 F005	960	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
63	CONTAMINATED INSOLUBLE OIL	S01	D001 D009	D008 F002	5	P
64	CONTAMINATED INSOLUBLE OIL	S01	D001 D009	D008 F002	2,538	P
65	ORGANIC SOLVENT MIXTURE FROM PLANT 8 MAINTENANCE	S01	D001 D009	D008 F002	317	P
66	WASTE FROM PLANT 6 MACHINERY	S01	D001 D009	D008 F002	894	P
67	USED, CONTAMINATED MACHINE AND ENGINE OIL	S01	D001 D010	D008 F002	12,040	P
68	GASOLINE	S01	D001 D018	D008	2,388	P
69	LEADED GASOLINE FROM TANK #12	S01	D001 D018	D008	7,813	P
70	CONTAMINATED SUMP WATER	S01	D001 D018 D039 F002	D008 D019 D040 F003	13,258	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
71	USED OIL FROM PLANT 4 MAINTENANCE SHOP	S01	D001 D019 F002	D008 D035	112	P
72	CONTAMINATED SUMP WATER AND HYDRAULIC OIL	S01	D001 D019 D040 F003	D008 D039 F002 F005	1,478	P
73	CONTAMINATED INSOLUBLE OIL	S01	D001 D019	D008 F002	402	P
74	CONTAMINATED INSOLUBLE OIL FROM BOILER PLANT	S01	D001 D019	D008 F002	2,502	P
75	SOLVENT CONTAMINATED OIL FROM PLANT 2/3	S01	D001 D035	D008 F002	1,251	P
76	SOLVENT SLUDGES (1,1,1-TRICHLOROETHANE, PERCHLOROETHYLENE)	S01	D001 D035	D008 F005	292	P
77	USED OIL CONTAMINATED WITH SOLVENTS	S01	D001 D039	D008 F002	4,371	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
78	USED OIL, MAINTENANCE	S01	D001 F001	D008	231	P
79	USED AGITENE	S01	D001 F001	D008 F002	814	P
80	WASTE SOLVENT FROM BOILER PLANT	S01	D001 F002	D008	3,910	P
81	1,1,1-TRICHLOROETHANE MIXTURE	S01	D001 F002	D008	1,059	P
82	SUMP WASTE, PLANT 1 PAINTING BOOTH	S01	D001 F003	D008 F005	124	P
83	DECANT WATER, NPR/AAF PRIMARY SEPARATOR	S01	D001	D009	749	P
84	OILY SLUDGE FOR OXIDATION	S01	D001	D010	194	P
85	OILY SLUDGE FOR OXIDATION	S01	D001	D010	336	P
86	CONTAMINATED SOLVENT	S01	D001	D018	931	P
87	KEROSENE FROM ABANDONDED USTs 11 & 13	S01	D001	D018	31,047	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
88	KEROSENE, SLUDGE, WATER FROM UST #3	S01	D001	D018	2,265	P
89	SPENT FUELS	S01	D001	D018	1,197	P
90	WATER AND GAS MIXTURE, TANK #9	S01	D001	D018	8,680	P
91	SOLVENT MIXTURE WITH ABSORBANT PADS	S01	D001 D019 D035 D040	D018 D021 D039	438	P
92	PAINT BITUMASTIC 300M A & B COLD TAR COATING	S01	D001 D026	D018	73	P
93	WATER/GAS MIXTURE (TANK 8)	S01	D001 D035	D018	4,385	P
94	CONTAMINATED INSOLUBLE OIL	S01	D001 D039	D018	16,238	P
95	BENZENE (LABPACKED)	S01	D001 U019	D018	6	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
96	DEGREASING SOLVENT	S01	D001 D022 D029 D039 F001 F005	D019 D028 D035 D040 F003	125,446	P
97	CONTAMINATED TBP-KEROSENE	S01	D001 D022 F002	D019 D039 F003	32	P
98	OILY SLUDGES	S01	D001 F002	D019	34,230	P
99	CONTAMINATED METHYL ETHYL KETONE	S01	D001	D035	249	P
100	EPOXY PRIME COAT	S01	D001	D035	163	P
101	UNUSED PAINT THINNER	S01	D001	D035	484	P
102	PAINT WASTE FROM TANK FARM	S01	D001 F002	D035 F003	529	P
103	USED MERCO-DRY AND HYDRAULIC OIL	S01	D001	D039	447	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
104	OILY OXIDATION SLUDGES WITH HIGH FREE METAL	S01	D001 F001	D039	5,705	P
105	CONTAMINATED SOLVENT – (1,1,1–TRICHLOROETHANE, PERCHLOROETHYLENE)	S01	D001 F003	D039 F005	5,729	P
106	CONTAMINATED SOLVENT MIXTURE, TCA AND CCL4	S01	D001	F001	545	P
107	DRUM CONTAINING 1,1,1–TRICHLOROETHANE	S01	D001	F001	245	P
108	OILY SLUDGE FOR OXIDATION	S01	D001	F001	199	P
109	OILY SLUDGE FOR OXIDATION HIGH FREE METAL	S01	D001 F002	F001	6,506	P
110	PAINT	S01	D001 F002	F001	450	P
111	GARAGE SUMP SLUDGES	S01	D001	F002	3,576	P
112	PAINT THINNERS AND PAINT RESIDUES	S01	D001 F003	F002 F005	511	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
113	WET CAKE, NON-OILY/HALIDE	S01	D001 F003	F002 F005	124	P
114	CONTAMINATED SOLVENTS (METHANOL)	S01	D001	F003	181	P
115	CONTAMINATED WATER	S01	D001	F003	24	P
116	METHANOL	S01	D001	F003	308	P
117	METHANOL & CYCLOHEXANE	S01	D001	F003	249	P
118	ACID WASTE	S01	D002		15,259	P
119	CONTAMINATED WATER, PIT 2 SURFACE CAP	S01	D002		876	P
120	DISCARD PROCESS RESIDUES	S01	D002		851	P
121	HYDROFLUORIC ACID	S02	D002		36,736	P
122	LAB GENERATED WASTE, TCLP EXTRACTS	S01	D002		341	P
123	USED MILLIPORE PCB TEST KIT	S01	D002		46	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
124	CONTAMINATED SOIL, ROCKS DEBRIS, FREE LIQUIDS	S01	D002 D007 D011	D004 D008	503	P
125	ACID DIGEST – ARSENIC	S01	D002 D038	D004	453	P
126	URANYL NITRATE SOLUTION IN TANKS	S02	D002 D007	D005	2,286,349	P
127	THORIUM TRAILER CAKES WASTE SLURRIES	S01	D002 D009	D005	402	P
128	DECANTED WATER FROM SUMP/FILTER CAKES	S01	D002	D007	596	P
129	NITRIC ACID	S01	D002	D007	68	P
130	THORIUM NITRATE SOLUTION	S01	D002 D008	D007	5,022	P
131	LAB GENERATED WASTE ACID DIGESTATES	S01	D002 D008 D028 F001	D007 D019 D039 F002	6,094	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
96	DEGREASING SOLVENT	S01	D001 D022 D029 D039 F001 F005	D019 D028 D035 D040 F003	125,446	P
97	CONTAMINATED TBP-KEROSENE	S01	D001 D022 F002	D019 D039 F003	32	P
98	OILY SLUDGES	S01	D001 F002	D019	34,230	P
99	CONTAMINATED METHYL ETHYL KETONE	S01	D001	D035	249	P
100	EPOXY PRIME COAT	S01	D001	D035	163	P
101	UNUSED PAINT THINNER	S01	D001	D035	484	P
102	PAINT WASTE FROM TANK FARM	S01	D001 F002	D035 F003	529	P
103	USED MERCO-DRY AND HYDRAULIC OIL	S01	D001	D039	447	P

XIII. Comments:

Ohio Environmental Protection Agency
FACILITY ANNUAL HAZARDOUS WASTE REPORT
For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information
IX. Generator's EPA I.D. No. OH6890008976
X. Generator Name USDOE FERNALD ENV. MGT. PROJECT
XI. Generator Address
Street: 7400 Willey Road
City: Fernald
State: Ohio
Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
104	OILY OXIDATION SLUDGES WITH HIGH FREE METAL	S01	D001 F001	D039	5,705	P
105	CONTAMINATED SOLVENT – (1,1,1–TRICHLOROETHANE, PERCHLOROETHYLENE)	S01	D001 F003	D039 F005	5,729	P
106	CONTAMINATED SOLVENT MIXTURE, TCA AND CCL4	S01	D001	F001	545	P
107	DRUM CONTAINING 1,1,1–TRICHLOROETHANE	S01	D001	F001	245	P
108	OILY SLUDGE FOR OXIDATION	S01	D001	F001	199	P
109	OILY SLUDGE FOR OXIDATION HIGH FREE METAL	S01	D001 F002	F001	6,506	P
110	PAINT	S01	D001 F002	F001	450	P
111	GARAGE SUMP SLUDGES	S01	D001	F002	3,576	P
112	PAINT THINNERS AND PAINT RESIDUES	S01	D001 F003	F002 F005	511	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
132	NESSLER REAGENT, COD SOLUTION, ROCHELLE SALT	S01	D002 D009	D007 D011	16	P
133	LEAD ACID BATTERIES (BROKEN)	S01	D002	D008	8,281	P
134	METALS EXTRACTS AND DIGESTS	S01	D002 D009 F001 F005	D008 D010 F002	4,443	P
135	ACID DIGEST – PYRIDINE	S01	D002 D038	D009	467	P
136	CAUSTIC SOLUTION FROM PLANT 8 PROCESSING	S01	D002	D019	643	P
137	CTC CORROSIVE WASTE	S01	D002 F002	F001 F005	437	P
138	MAGNESIUM FLAKE AND OILY RAGS	S01	D003		165	P
139	URANIUM HEXAFLUORIDE AND URANIUM TETRAFLUORIDE	S01	D003		16	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No: OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
140	SCRAP U3O8 HIGH F	S01	D004		242,154	P
141	U3O8 FOR REOXIDATION	S01	D004		7,841	P
142	LIQUID AND SOLID WASTE SAMPLES	S01	D004 D006 D008 D018	D005 D007 D010 F002	25	P
143	SOLIDS CONTAMINATED BY LAB SAMPLES AND MATERIALS	S01	D004 D006 D008 F002	D005 D007 D022 F003	1,436	P
144	CONTAMINATED SOIL, ROCKS, BRICKS AND CERAMICS	S01	D004 D007 D010	D005 D008 D011	6,314	P
145	BROWN PARTICULATE SOLID (DIRT & RUBBLE)	S01	D004 D008 D011	D007 D010	220	P
146	DUST COLLECTOR RESIDUES, HIGH FLUORIDE	S01	D004	D008	588	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
113	WET CAKE, NON-OILY/HALIDE	S01	D001 F003	F002 F005	124	P
114	CONTAMINATED SOLVENTS (METHANOL)	S01	D001	F003	181	P
115	CONTAMINATED WATER	S01	D001	F003	24	P
116	METHANOL	S01	D001	F003	308	P
117	METHANOL & CYCLOHEXANE	S01	D001	F003	249	P
118	ACID WASTE	S01	D002		15,259	P
119	CONTAMINATED WATER, PIT 2 SURFACE CAP	S01	D002		876	P
120	DISCARD PROCESS RESIDUES	S01	D002		851	P
121	HYDROFLUORIC ACID	S02	D002		36,736	P
122	LAB GENERATED WASTE, TCLP EXTRACTS	S01	D002		341	P
123	USED MILLIPORE PCB TEST KIT	S01	D002		46	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

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XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
124	CONTAMINATED SOIL, ROCKS DEBRIS, FREE LIQUIDS	S01	D002 D007 D011	D004 D008	503	P
125	ACID DIGEST – ARSENIC	S01	D002 D038	D004	453	P
126	URANYL NITRATE SOLUTION IN TANKS	S02	D002 D007	D005	2,286,349	P
127	THORIUM TRAILER CAKES WASTE SLURRIES	S01	D002 D009	D005	402	P
128	DECANTED WATER FROM SUMP/FILTER CAKES	S01	D002	D007	596	P
129	NITRIC ACID	S01	D002	D007	68	P
130	THORIUM NITRATE SOLUTION	S01	D002 D008	D007	5,022	P
131	LAB GENERATED WASTE ACID DIGESTATES	S01	D002 D008 D028 F001	D007 D019 D039 F002	6,094	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

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Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
147	ROASTED MgF2, OTHER MATERIAL	S01	D004	D008	5,174	P
148	SCRAP SALTS AND FLOOR SWEEPINGS, LOW FLUORIDE	S01	D004	D008	507	P
149	CONTAMINATED NON-BURNABLES	S01	D004 D011	D008 F005	9	P
150	DUST COLLECTOR RESIDUES, HIGH FLUORIDE	S01	D004	D011	539	P
151	FURNACE SALT, CHLORIDE	S01	D004	D011	6,486	P
152	SALT SLUDGE FOR PLANT 8	S01	D004 D039	D019 F002	1,329	P
153	BARIUM CARBONATE	S01	D005		4,636	P
154	CONTAMINATED SOIL AND ROCKS	S01	D005		12,051	P
155	HARDENED SALT BATH SLUDGE FROM RMI	S01	D005		5,126	P
156	SALT SLUDGE, CHLORIDE	S01	D005		713	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

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XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
157	SAMPLES, NON-METALLIC	S01	D005		185	P
158	SCRAP ThO2 – HIGH F	S01	D005		128	P
159	WET SUMP OR FILTER CAKE NON-OILY, NON-HALIDE	S01	D005		542	P
160	OILY SLUDGES FROM WWTS AREA	S01	D005 D007 D009	D006 D008	1,224	P
161	USED OIL FROM GEAR BOXES LATHES AND MOTORS	S01	D005 D008	D006 F001	322	P
162	SUMP CAKE	S01	D005	D007	14,623	P
163	SCRAP SALTS	S01	D005	D008	13,693	P
164	SOLIDIFIED FURNACE SALT, CHLORIDE	S01	D005	D008	55,211	P
165	OILY SEMI-SOLID	S01	D005	D008	9,691	P
166	CONTAMINATED RAGS, PAPER POLYETHYLENE, RMI	S01	D005	F001	294	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

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XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
167	CONTAMINATED INSOLUBLE OIL	S01	D006		214	P
168	NI–CD BATTERIES	S01	D006		405	P
169	NONRECOVERABLE TRASH	S01	D006	D007	656	P
170	PROCESS RESIDUES, TRAILER CAKES, SLURRIES	S01	D006 D008 D040 F005	D007 D018 F002	172	P
171	CONTAMINATED INSOLUBLE OIL	S01	D006 D008 D029 F001	D007 D019 D040	3,056	P
172	DUST COLLECTOR RESIDUES, HIGH FLUORIDE	S01	D006	D008	6	P
173	DUST COLLECTOR RESIDUES, HIGH FLUORIDE	S01	D006	D008	1,213	P
174	PROCESS RESIDUES, TRAILER CAKES, SLURRIES	S01	D006	D008	118	P

XIII. Comments:

Ohio Environmental Protection Agency
FACILITY ANNUAL HAZARDOUS WASTE REPORT
For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information
IX. Generator's EPA I.D. No. OH6890008976
X. Generator Name USDOE FERNALD ENV. MGT. PROJECT
XI. Generator Address
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XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
175	MERCURY THERMOMETER SPILL CLEANUP	S01	D006 D009	D008	298	P
176	CONTAMINATED INSOLUBLE OIL	S01	D006 D018 D028 F002	D008 D019 D029	634	P
177	CONTAMINATED INSOLUBLE OIL	S01	D007		370	P
178	CRUCIBLE COATING POWDERS	S01	D007		137	P
179	DARK GREEN OILY LIQUID FROM WASTE MANAGEMENT	S01	D007		12	P
180	DUST COLLECTOR BAGS	S01	D007		38	P
181	DUST COLLECTOR BAGS	S01	D007		26	P
182	DUST COLLECTOR RESIDUES, HIGH FLUORIDE	S01	D007		1,231	P
183	NON-METALLIC MISCEL-LANEOUS SAMPLES	S01	D007		78	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

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Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
184	NON-OILY SLUDGE FOR ROASTIING	S01	D007		445	P
185	ROASTED OFF-SITE SUMP CAKE	S01	D007		32,917	P
186	SALT SLUDGE, CHLORIDE	S01	D007		10,570	P
187	SALT SLUDGE, CHLORIDE	S01	D007		20,041	P
188	SCRAP SALTS AND FLOOR SWEEPINGS, LOW FLUORIDE	S01	D007		6,002	P
189	SLUDGES FOR BLENDING	S01	D007		457	P
190	NON-OILY SUMP CLEANOUT FROM PLANT 8	S01	D007	D008	1,853	P
191	OIL DRY CONTAMINATED WITH OIL FROM BALER	S01	D007	D008	1,012	P
192	SCRAP SALTS AND FLOOR SWEEPINGS, HIGH FLUORIDE	S01	D007	D008	2,233	P
193	MERCURY CONTAMINATED WATER	S01	D007 D009	D008	72	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
194	OIL UNKNOWN GENERATION	S01	D007 D009	D008	3,335	P
195	FURNACE SALT, NON-CHLORIDE	S01	D007 D010	D008	24,102	P
196	LIQUID SOLVENT WASTE, PAINT BOOTH SUMP	S01	D007 D010	D008 F005	373	P
197	SOLVENT SLUDGE, (1,1,1-TRICHLOROETHANE, PERCHLOROETHYLENE)	S01	D007	D011	79	P
198	CONTAMINATED SOLVENT (1,1,1-TRICHLOROETHANE, PERCHLOROETHYLENE)	S01	D007 D019 D029 D040	D018 D021 D039 F001	7,663	P
199	SOLVENT WASTE	S01	D007 D040 F002	D039 F001	1,118	P
200	OILY SLUDGES	S01	D007	F001	947	P
201	U3O8, LOW FLUORIDE	S01	D007 F002	F001	1,411	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

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LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
202	CONTAMINATED BURNABLE	S01	D007	F002	1,169	P
203	GROUNDWATER FROM WELL #2649	S01	D007	F002	1,657	P
204	ASBESTOS ABATEMENT DEBRIS	S01	D008		67	P
205	DRY DUST COLLECTOR POWDER	S01	D008		154	P
206	DUST COLLECTOR RESIDUES HIGH FLUORIDE	S01	D008		192	P
207	GRIT BLAST	S01	D008		626,904	P
208	LEAD	S01	D008		168	P
209	LEAD BRICKS	S01	D008		15,554	P
210	LEAD BRICKS, LEAD WINDOW SASHINGS, BABBIT HAMMER	S01	D008		572	P
211	LEAD SOLDER JOINTS	S01	D008		283	P
212	LEAD & DEBRIS	S01	D008		31,873	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

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XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
213	LUBRICATING OIL	S01	D008		726	P
214	MISCELLANEOUS LEAD TOOLS, PIPING	S01	D008		4,889	P
215	NON-RECOVERABLE TRASH	S01	D008		428	P
216	OILY RAGS, PADS, GLOVES	S01	D008		266	P
217	PAINT CHIPS FROM SAND FILTERS AT WATER PLANT	S01	D008		1,193	P
218	THORIUM OXIDE POWDER REFINERY FEED	S01	D008		68	P
219	TRASH AND DEBRIS FROM UNKNOWN SOURCE	S01	D008		345	P
220	CONTAMINATED INSOLUBLE OIL	S01	D008 D039 F001 F003	D009 D040 F002 F005	375	P
221	CONTAMINATED INSOLUBLE OIL	S01	D008 D039 F003	D009 F002 F005	294	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

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XI. Generator Address

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XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
222	NON-RECOVERABLE TRASH ABSORBANT PADS	S01	D008 F001	D009	42	P
223	CONTAMINATED METALLIC FILTER ELEMENTS	S01	D008	D010	537	P
224	FURNACE SALT, NON-CHLORIDE	S01	D008	D010	4,486	P
225	TRASH, PADS, RAGS, WATER	S01	D008	D010	236	P
226	CONTAMINATED BURNABLES, RAGS, FILTER, CLOTH	S01	D008 F001	D011	790	P
227	SUMP LIQUOR	S01	D008 D039 F003	D012 F002	1,234	P
228	CONTAMINATED INSOLUBLE OIL, GEAR OIL	S01	D008 D019 D029 D040	D018 D028 D039 F002	2,781	P
229	SPENT 1,1,1-TRICHLORO-ETHANE	S01	D008 F001	D018 F002	169	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

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XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
230	OILY RAGS	S01	D008 F002	D018	129	P
231	OILY RAGS AND ABSORBANTS, WD-40 AND VARIOUS OILS	S01	D008 F002	D018	79	P
232	SLUDGES, OILY	S01	D008 D019	D018 F002	685	P
233	SLUDGES, OILY	S01	D008	D028	3,252	P
234	OILY RAGS, PADS AND TRASH FROM BOILER PLANT	S01	D008 F001	D039	208	P
235	CONTAMINATED INSOLUBLE OIL	S01	D008	F001	4,148	P
236	NON-RECOVERABLE TRASH	S01	D008	F001	6,703	P
237	NON-OILY SLUDGE FOR ROASTING	S01	D008 F002	F001	732	P
238	CONTAMINATED INSOLUBLE OIL	S01	D008	F002	1,095	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

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LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
239	CONTAMINATED RAINWATER FROM UST#5	S01	D008	F002	4,682	P
240	SOLVENT CONTAMINATED WASTE OIL	S01	D008	F002	1,283	P
241	USED OIL WITH 1,1,1-TRICHLOROETHANE	S01	D008	F002	341	P
242	BROKEN GLASS AND OLD FLUORESCENT LIGHT BULBS	S01	D009		386	P
243	ELEMENTAL MERCURY	S01	D009		45	P
244	MERCURY BATTERY	S01	D009		1,473	P
245	MERCURY CONTAMINATED FLOOR TILE AND INSULATION	S01	D009		2,002	P
246	MERCURY SPILL CLEAN-UP, SPENT MERCURY BATTERIES	S01	D009		758	P
247	SCRAP SALT, HIGH FLUORIDE	S01	D009		12	P
248	USED MERCURY FROM EQUIPMENT	S01	D009		445	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

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X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

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XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
249	PAINT THINNERS AND PAINT RESIDUES	S01	D009 D035	D018	29	P
250	1,1,1-TRICHLOROETHANE STILL BOTTOMS	S01	D009 F002	F001	16,292	P
251	TCLP LEACHATE	S01	D009 F002	F001	420	P
252	PLASTIC SHEETING, GLOVES, FLOOR SWEEPINGS	S01	D010		3,033	P
253	STEEL SHOT	S01	D010		9,005	P
254	VOLATILE SOLID WASTE	S01	D010		167	P
255	OIL SOAKED RAGS	S01	D010 F002	D018	591	P
256	OILY SLUDGE	S01	D010 F001	D035	2,977	P
257	LAB GENERATED WASTE, ORGANIC LIQUID	S01	D010	F002	3,847	P
258	CONCENTRATE FIXER	S01	D011		216	P

XIII. Comments:

Ohio Environmental Protection Agency
FACILITY ANNUAL HAZARDOUS WASTE REPORT
For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information
IX. Generator's EPA I.D. No. OH6890008976
X. Generator Name USDOE FERNALD ENV. MGT. PROJECT
XI. Generator Address
Street: 7400 Willey Road
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XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
259	CONTAMINATED ROCKS, SOIL, WITH NO FREE LIQUIDS	S01	D011		989	P
260	OIL CONTAMINATED WET SUMP OR FILTER CAKE	S01	D011		72,036	P
261	SPENT FIXER	S01	D011		1,347	P
262	X-RAY FIXER & DEVELOPER	S01	D011		271	P
263	CRANKCASE OIL	S01	D018		2,641	P
264	HYDRAULIC OIL FROM BALER IN DRUM RECONDITIONING	S01	D018		1,089	P
265	LUBRICATING OILS	S01	D018		7,332	P
266	SPILL CLEANUPS OF OIL AND GAS	S01	D018		5,947	P
267	USED OIL	S01	D018		313	P
268	OILY SLUDGE	S01	D018 D021 D039 D043	D019 D028 D040	1,205	P

XIII. Comments:

Ohio Environmental Protection Agency
FACILITY ANNUAL HAZARDOUS WASTE REPORT
For the calendar year ending December 31, 1994

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Generator Information
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X. Generator Name USDOE FERNALD ENV. MGT. PROJECT
XI. Generator Address
Street: 7400 Willey Road
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XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
269	LAB WASTE, TCLP EXTRACT	S01	D018 D035 D039 D043 F005	D021 D038 D040 F002	4,483	P
270	OIL CONTAMINATED WITH SOLVENTS (TANK5)	S01	D018	F001	27,458	P
271	TRASH CONTAMINATED WITH SOLVENT	S01	D018	F001	219	P
272	SPENT SOLVENTS	S01	D018 F002	F001	238	P
273	USED OIL	S01	D018	F002	2,583	P
274	NON-RECOVERABLE TRASH	S01	D019		1,002	P
275	CONTAMINATED SOLVENT, 1,1,1-TRICHLOROETHANE PERCLHOROETHYLENE	S01	D019 D028 D039 F005	D022 D029 F001	376	P
276	CONTAMINATED TBP AND/OR KEROSENE MIXTURES	S01	D019 D039	D022 F002	111	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
277	CONTAMINATED INSOLUBLE OIL	S01	D019 D039 F001	D029 D040	5,808	P
278	FLOOR SUMP CLEANOUT SLUDGE	S01	D019 F001	D039 F002	1,393	P
279	NON–OILY CLEANOUT SLUDGES FOR ROASTING	S01	D019	F001	4,515	P
280	CARBON TETRACHLORIDE (LABPACKED)	S01	D019	U211	43	P
281	WASTE CHLOROFORM	S01	D022		8	P
282	PROCESS RESIDUES	S01	D029		798	P
283	CONTAMINATED BURNABLES	S01	D029 D040	D039 F001	1,712	P
284	OILY SLUDGES	S01	D029 D040	D039 F001	174,856	P
285	FLOOR SUMP CLEANOUT SLUDGE	S01	D029 F001	D039	1,308	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

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Generator Information

IX. Generator's EPA I.D. No. OH6890008976

X. Generator Name USDOE FERNALD ENV. MGT. PROJECT

XI. Generator Address

Street: 7400 Willey Road

City: Fernald

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Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
286	CONTAMINATED INSOLUBLE OIL	S01	D029 F002	D039	413	P
287	DRY RESIDUE FROM PLANT 5 CASTING AREA	S01	D039		444	P
288	NON-OILY CLEANOUT SLUDGES, FOR ROASTING	S01	D039		6,223	P
289	OILY RAGS AND CLOTHING	S01	D039		140	P
290	OILY WASTE AND SOLIDS	S01	D039		1,758	P
291	U-CONTAMINATED WATER	S01	D039		5,817	P
292	WET SUMP OR FILTER CAKE NON-OILY, NON-HALIDE	S01	D039		1,698	P
293	CONTAMINATED INSOLUBLE OIL	S01	D039 F001	D040	2,743	P
294	CONTAMINATED INSOLUBLE OIL	S01	D039 F001	D040	5,511	P
295	WET SUMP OR FILTER CAKE, OIL CONTAMINATED	S01	D039 F002	D040	23,931	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

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LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
296	CONTAMINATED PALLETS	S01	D039	F001	3,894	P
297	SOLVENT AND FILTER MATERIAL	S01	D039	F002	6,335	P
298	SOLVENT SEMISOLD	S01	D039	F002	88	P
299	WET SUMP OR FILTER CAKE NON-OILY, NON-HALIDE	S01	D039	F002	7,116	P
300	CONTAMINATED BURNABLES	S01	D039	U210	124	P
301	OIL FROM TCLP EXTRACTS	S01	D040 F002	F001 F005	71	P
302	BORING #1594	S01	F001		475	P
303	BORING #1251	S01	F001		911	P
304	BORING #1261	S01	F001		550	P
305	BORING # 1674	S01	F001		340	P
306	PUMP OIL AND RAGS	S01	F001		39	P
307	CONTAMINATED BURNABLES	S01	F001		406	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

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LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
308	CONTAMINATED INSOLUBLE OIL	S01	F001		668	P
309	ROASTED CALCIUM PRECIPITATED SUMP CAKE	S01	F001		3,275	P
310	ROASTED CALCIUM PRECIPITATED SUMP CAKE	S01	F001		46,403	P
311	SCRAP SALTS AND FLOOR SWEEPINGS, LOW FLUORIDE	S01	F001		853	P
312	SCRAP SALTS, LOW FLUORIDE	S01	F001		476	P
313	SCRAP U3O8, LOW FLUORIDE	S01	F001		13,549	P
314	SPILL CLEANOUT MATERIAL	S01	F001		13	P
315	SPILL CLEAN-UP MATERIALS	S01	F001		144	P
316	U3O8 ROTEXED PLANT 8 FURNACE PRODUCT	S01	F001		166,372	P
317	CONTAMINATED GRAPHITE	S01	F001	F002	910	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31, 1994

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LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
318	CONTAMINATED SOIL FROM PIT 5 HWMU AREA	S01	F001	F002	423	P
319	FILTER MATERIAL, SAND, GRAVEL, FLYASH	S01	F001	F002	410,382	P
320	GRASS ON THE SOIL	S01	F001	F002	42	P
321	OILY RAGS	S01	F001	F002	285	P
322	RAINWATER FROM WASTE PIT AREA	S01	F001	F002	66,248	P
323	SOIL	S01	F001	F002	3,330	P
324	SPILL CLEANUP FROM RCRA STORAGE PAD	S01	F001	F002	189	P
325	U3O8 FROM BOX FURNACE	S01	F001	F002	89,675	P
326	CONTACT WASTE FROM PACD SAMPLING	S01	F001 F003	F002 F005	287	P
327	LAB GENEREATED WASTE, CONTACT SOLID WASTE	S01	F001 F005	F002	1,367	P

XIII. Comments:

Ohio Environmental Protection Agency
FACILITY ANNUAL HAZARDOUS WASTE REPORT
For the calendar year ending December 31, 1994

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LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
328	SOLIDIFIED LAB WASTE	S01	F001 F005	F002	104,383	P
329	WATER, SAMPLE EQUIPMENT CLEANING	S01	F001 F005	F002	354	P
330	CONTAMINATED PROTECTIVE CLOTHING	S01	F001 F005	F003	154	P
331	BORING #1412	S01	F002		517	P
332	CONTAMINATED NON-BURNABLES	S01	F002		2,499	P
333	CONTAMINATED NON-BURNABLES	S01	F002		31	P
334	MERCO DRY AND OILY MERCO DRY	S01	F002		4,368	P
335	METHYLENE CHLORIDE EXTRACTS	S01	F002		469	P
336	METHYLENE CHLORIDE EXTRACTS, SOLIDS	S01	F002		57	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

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LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
337	MOP HEADS AND PADS	S01	F002		91	P
338	NON RECOVERABLE TRASH	S01	F002		495	P
339	OIL CONTAMINATED WET SUMP OR FILTER CAKE	S01	F002		36,117	P
340	OILY RAGS	S01	F002		296	P
341	OILY SLUDGE FOR OXIDATION HIGH FREE METAL	S01	F002		3,527	P
342	PROCESS RESIDUES, TRAILER CAKES, SLURRIES	S01	F002		1,001	P
343	SALT SLUDGE,CHLORIDE	S01	F002		1,101	P
344	SCRAP U3O8 – LOW F	S01	F002		123	P
345	SCRAP U3O8 OR THO2 HIGH FLUORIDE	S01	F002		30,058	P
346	SOLVENT RAGS	S01	F002		54	P
347	CONCRETE, ABANDONED PILOT PLANT SUMP	S01	F002	F003	2,568	P

XIII. Comments:

Ohio Environmental Protection Agency
FACILITY ANNUAL HAZARDOUS WASTE REPORT
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LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
348	METAL TANK, ABANDONDED PILOT PLANT SUMP	S01	F002	F003	647	P
349	PAINT THINNER RAGS	S01	F002 F005	F003	187	P
350	BORING # 1508	S01	F002	F005	6,066	P
351	CONTAMINATED CONTACT WASTE	S01	F002	F005	900	P
352	NON-RECOVERABLE TRASH	S01	F002	F005	449	P
353	PROCESS RESIDUES, TRAILER CAKES, SLURRIES	S01	F005		19	P
354	HF TANK CLEANOUT MATERIAL	S01	U134		8,540	P
355	LAB PACKS	S01	D001 D004 D006 D008 D011	D002 D005 D007 D010 U080	822	P

XIII. Comments:

Ohio Environmental Protection Agency

FACILITY ANNUAL HAZARDOUS WASTE REPORT

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Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
356	CONTAMINATED CARBON FILTER ELEMENTS	S01	D040		837	P
357	CONTAMINATED WATER OR SUMP LIQUOR	S01	D002		484	P
358	SCRAP WOOD, TIRES, PLASTIC	S01	F002	F005	4,342	P
359	DETREX STILL TANK	S01	F001	F002	956	P
360	OIL CONTAMINATED SOIL	S01	F002	F005	641,414	P
361	IGNITABLE PROJECT CONTACT WASTE	S01	F001 F003 U019	F002 F005 U211	150	P
362	ASPHALT/GRAVEL	S01	F002	F005	75,542	P
363	OIL CONTAMINATED SOIL	S01	F002	F005	60,802	P
364	CONTAMINATED WATER FROM PILOT PLANT	S01	D039		354	P
365	NON-OILY SLUDGE FOR ROASTING	S01	D008		801	P

XIII. Comments:

Ohio Environmental Protection Agency
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For the calendar year ending December 31, 1994

VIII. Facility's EPA I.D. No. OH6890008976

Generator Information
IX. Generator's EPA I.D. No. OH6890008976
X. Generator Name USDOE FERNALD ENV. MGT. PROJECT
XI. Generator Address
Street: 7400 Willey Road
City: Fernald
State: Ohio
Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS

As discussed with Ohio EPA in the past, there are a number of waste streams onsite that are not fully characterized.The following wastes are part of that population. They are included in the Materials Control and Accountability Department Hazardous Waste Inventory, however, their characterization status is listed as pending by the Waste Characterization Department. The EPA waste codes should therefore be considered preliminary.
To avoid confusion with the fully characterized wastes above, these line numbers will be distinguished with a P following the number.

001P	BORING #1148	S01	U228		399	P
002P	BORING # 1193	S01	U220		1,515	P
003P	BORING # 1260	S01	F002		250	P
004P	BORING # 1283	S01	F002		618	P
005P	BORING # 1287	S01	F002		326	P
006P	BORING # 1294	S01	F002		645	P
007P	BORING # 1307	S01	F002		384	P
008P	BORING # 1308	S01	U228		1,280	P

XIII. Comments:

Ohio Environmental Protection Agency

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Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
009P	BORING # 1317	S01	U080		938	P
010P	BORING # 1324	S01 S01	F002		1,309	P
011P	BORING # 1327	S01	U044		873	P
012P	BORING # 1345	S01	U044		784	P
013P	BORING # 1346	S01	U228		1,010	P
014P	BORING # 1363	S01	F002		966	P
015P	BORING # 1411	S01	U228		903	P
016P	BORING # 1149	S01	F001		1,578	P
017P	COBALT TRIFLUORIDE	S01	D001	D003	3	P
018P	HYDRAULIC OIL	S01	D018		242	P
019P	OIL DRY CONTAMINATED WITH OIL	S01	D018		1,439	P
020P	BARIUM	S01	D005		515	P

XIII. Comments:

Ohio Environmental Protection Agency

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Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
021P	CLEARWELL TREATABILITY STUDY WASTE	S01	F001	F002	53	P
022P	PIT 5 TREATABILITY STUDY WASTE	S01	D004 F001	D005 F002	28	P
023P	ENGINEERED WASTE MANAGE MENT FACILITY STUDY	S01	F001 F005	F002	2,174	P
024P	PAPER, PLASTIC AND GLASS	S01	F001	F002	1,834	P
025P	NONRECOVERABLE TRASH	S01	D008 F001	D018 F002	505	P
026P	NONRECOVERABLE TRASH	S01	D005 F001 F003	D008 F002	1,400	P
027P	NONRECOVERABLE TRASH	S01	D002 D007 F002	D005 D008	14,640	P

XIII. Comments:

Ohio Environmental Protection Agency

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XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
028P	NONRECOVERABLE TRASH	S01	D002 D005 D007 D022 F003	D004 D006 D008 F002	220	P
029P	NONRECOVERABLE TRASH	S01	D010 F002	F001 F005	1,441	P
030P	NONRECOVERABLE TRASH	S01	D010 F002	F001 F005	4,722	P
031P	NONRECOVERABLE TRASH	S01	D002 D008 F001 U159	D005 D018 F002	13,140	P
032P	NONRECOVERABLE TRASH	S01	D001		836	P
033P	NONRECOVERABLE TRASH	S01	D008	F002	636	P
034P	NONRECOVERABLE TRASH	S01	D008	F002	1,001	P
035P	NONRECOVERABLE TRASH	S01	D008	F002	535	P

XIII. Comments:

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XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
036P	CONTAMINATED OIL, SOLUBLE	S01	D001 F002	F001 F003	272	P
037P	CONTAMINATED WATER	S01	D007		806	P
038P	CONTAMINATED SOIL, ROCKS, ETC.	S01	F001		13,934	P
039P	BARIUM CHLORIDE, CHROMIUM RESIDUES	S01	D007		30,325	P
040P	CONTAMINATED WATER	S01	D010 F005	F002	979	P
041P	GROUNDWATER FROM WELL # 1149	S01	F001		217	P
042P	CONTAMINATED SOLVENT	S01	D001	F001	312	P
043P	CONTAMINATED SOLVENT	S01	D001	F001	264	P
044P	CONTAMINATED SOLVENT	S01	D001 D018	D008	70	P
045P	CONTAMINATED INSOLUBLE OIL	S01	D006 D009 D019 D035	D008 D018 D021 D039	1,785	P

Ohio Environmental Protection Agency

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State: Ohio

Zip Code: 45030

XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
			D040	F002		

XIII. Comments:

046P	CONTAMINATED INSOLUBLE OIL	S01	F002		812	P
047P	CONTAMINATED ALUMINA–SODA LIME	S01	D005		22,489	P
048P	MERCO–DRI AND HILCO CAKE	S01	D001	D018	10,804	P
049P	MERCO–DRI AND HILCO CAKE	S01	D008 F003	F002	4,380	P
050P	TRIBUTYL PHOSPHATE, KEROSENE	S01	D001 D007	D002 D008	2,739	P
051P	TRIBUTYL PHOSPHATE, KEROSENE	S01	D001 D007	D002	3,438	P
052P	TRIBUTYL PHOSPHATE, KEROSENE	S01	D001 D009 F002	D008 D018	1,430	P
053P	CONTAMINATED BURNABLES	S01	D001 F002	F001 F003	77	P

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XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
054P	CONTAMINATED BURNABLES	S01	F002		155	P
055P	CONTAMINATED BURNABLES	S01	F002		120	P
056P	CONTAMINATED BURNABLES	S01	D008	F002	95	P
057P	GRIT BLAST RESIDUE	S01	D008		4,870	P
058P	NONRECOVERABLE TRASH	S01	F002		374	P
059P	OILY SEMISOLIDS	S01	F002		80	P
060P	OILY SEMISOLIDS	S01	D008	F002	1,022	P
061P	NONOILY SEMISOLIDS	S01	F002		3,146	P
062P	SOLVENT SEMISOLID	S01	F001 F003	F002	724	P
063P	MERCURY CONTAMINATED MATERIAL	S01	D009		95	P
064P	FURNACE SALT	S01	D005		832	P
065P	WET SUMP OR FILTER CAKE	S01	D008	F002	242	P
066P	USED OIL	S01	D008		27,049	P

XIII. Comments:

Ohio Environmental Protection Agency

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XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
067P	CONTAMINATED BURNABLES	S01	D005		3,801	P

XIII. Comments:

068P	OILY SEMISOLID	S01	D008		5,808	P
069P	OILY SEMISOLID	S01	D005	D008	7,998	P
070P	WET SUMP OR FILTER CAKE, NONOILY, NONHALIDE	S01	D004 D008	D006	67,412	P
071P	MISCELLANEOUS MATERIAL	S01	D005		6,323	P
072P	SOLVENT SEMISOLID	S01	D018 F002	F001	1,055	P
073P	BURNABLE TRASH	S01	D029 D040	D039 F001	159	P
074P	CONTAMINATED BRICKS, ETC.	S01	D008		170	P
075P	DISCARD PROCESS RESIDUE (CONTAMINATED WATER)	S01	D007	D039	3,451	P
076P	NONRECOVERABLE TRASH	S01	D007	D010	272	P
077P	OILY RAGS	S01	D018	F002	67	P

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XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
079P	SCRAP METAL, METAL SHAVINGS, DICALITE	S01	D008	F002	489	P

XIII. Comments:

080P	OILY RAGS, GLOVES	S01	D008 F002	D018	260	P
081P	CONTAMINATED WATER	S01	F002 F005	F003	421	P
082P	TETRACHLOROETHYLENE	S01	F001	F002	848	P
083P	MAGNUSPRAY, SURPLUS CHEMICALS	S01	D002		550	P
084P	PAINT THINNER	S01	D001	F002	1,272	P
085P	SOLVENT	S01	D001 D003 U056	D002 F001	227	P
086P	METHANOL ACETATE	S01	D001	D002	32	P
087P	ETHYL ACETATE	S01	D001	D002	41	P
088P	LAB PACKS	S01	D001 D008	D007 D010	1	P

Ohio Environmental Protection Agency

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XII. Waste Identification

LINE	A. DESCRIPTION	B. HANDLING METHOD	C. EPA HAZARDOUS WASTE CODE		D. AMOUNT OF WASTE	E. UNITS
			D018	F002		

XIII. Comments:

089P	DECANT WATER AND RE-SIDUAL SAMPLES OF U3O8	S01	D004		312	P
090P	NON-RECOVERABLE TRASH	S01	D008 F002	D018	1,222	P
091P	SEGREGATED TRASH	S01	D018		192	P
092P	ASBESTOS	S01	D008	F002	73	P

XIII. Comments:

TABLE C-4

6/30/95

RCRA REGULATED HAZARDOUS WASTE STREAMS

WASTE ID#	DOE TYPE	WASTE NAME	US EPA HAZARDOUS WATE#	DETERMINATION BASIS
12	16	AEROSOL PAINT CANS	D001	PK
46	4	BARIUM CHLORIDE LIQUID HEAT 980	D005	PK
47	4	BARIUM CHLORIDE (LIQUID HEAT 800)	D005	PK
89	9	BORING #1412	F002	PK
119	2	BARIUM CHLORIDE SOLUTION	D005	PK
157	16	WD-40 SPRAY CAN	D001	MSDS
160	16	SPEED E NAMEL SPRAY PAINT	D001	MSDS
162	16	KRYLON CAR COLOR SPRAY PAINT	D001	MSDS
163	16	AEROSOL PAINT	D001	MSDS
177	6	RAGS, GLOVES, PROTECTIVE COVERALLS, DOP, FORMULA 401	U107	MSDS
180	6	RAGS SOLVENT	F002	PK,8
183	99	WATER\GAS MIXTURE TANK #8	D001 D018 D035	1,4,7,8,9
201	1	CRANKCASE OIL	D018	PK,MSDS
344	2	ITEK DEVELOPER (LIQUID)	D011	MSDS
345	1	KEROSENE FROM ABANDONED UNDERGROUND STORAGE TANKS 11 & 13	D001 D018	PK,MSDS,1,3,8,9
358	2	CAUSTIC SOLUTION (NaOH) FROM PLANT 8 RAFFINATE PROCESSING	D002 D019	PK,1,3,5,7,8,9
379	1	SPENT 1,1,1-TRICHLOROETHANE	D008 D018 F001 F002	PK,MSDS
380	8	ABSORBENT PADS, RAGS AND GLOVES	D039 F002 F003	PK,1,3,5,6,9
381	16	AEROSOL PAINT CANS	D001	MSDS
383	2	X-RAY FIXER & DEVELOPER, CLEAR LIQUID MODERATE ACIDIC SOLUTION	D011	MSDS
385	1	SPENT SOLVENTS	D018 F001 F002	PK,MSDS,7,8
386	1	FLOOR SUMP CLEANOUT SLUDGE	D019 D039 F001 F002	PK,1,3,7,8
387	8	OIL SOAKED RAGS	D010 D018 F002	PK,MSDS
389	7	OILY RAGS FROM WATER TREATMENT AREA	D008 D009 D010	PK,1,3,5,9
390	3	OILY SLUDGES FROM OIL COALESCING SYSTEM: PLT 6 WWTS	D005 D008	PK,1,4,7,8,9
391	16	WASTE AEROSOL PAINT CANS	D001	MSDS
392	20	DRY CELL ELECTRONIC STORAGE BATTERIES	D002 D006 D009	PK
393	1	LUBRICATING OIL FROM REDUCTION REMELT.	D008	1,3,8,9
395	1	PAINT THINNERS AND PAINT RESIDUES	D001 F002 F003 F005	PK
396	6	PAINT THINNER RAGS	F002 F003 F005	PK
398	8	NON-RECOVERABLE TRASH CONTAMINATED ABSORBANT PADS	D008 D009 F001	PK,MSDS,1,3,5,9
399	8	OILY RAGS, PADS AND TRASH FROM BOILER PLANT MACHINERY	D008 D039 F001	PK,1,3,5,9
400	1	USED OIL FROM MAINTENANCE	D001 D008 F001	PK,MSDS,1,4,8,9
403	6	1,1,1,-TRICHLOROETHANE RAGS	D018 F001 F002	PK
404	8	OILY RAGS	D008 D018 F002	PK
405	20	DRY CELL BATTERIES	D002 D009	PK
406	16	AEROSOL CANS	D001	MSDS

See final page of keys to DETERMINATION BASIS codes and DOE WASTE STREAM TYPES

000086

7057

WASTE ID#	DOE TYPE	WASTE NAME	US EPA HAZARDOUS WATE#	DETERMINATION BASIS
408	1	USED OIL FROM GEAR BOXES, LATHES, AND MOTORS	D005 D006 D008 F001	PK,1,3,7,8,9
410	8	OILY RAGS	F001 F002	PK,1,3,5,9
412	1	1,1,1-TRICHLOROETHANE	D001 D006 F002	PK,MSDS,1,3,8,9
413	8	SPENT SOLVENT CONTAMINATED RAGS	D008 D039 F002	PK,1,3,5,9
414	1	USED OIL	D001 D006 D008 D009 D039 F001 F002	PK,1,3,8,9
415	8	OILY RAGS AND ABSORBENTS WD-40 AND VARIOUS OILS	D008 D018 F002	PK
416	1	CHLOROFORM	D022	PK
418	1	USED ACETONE AND WATER	D001	PK,MSDS
419	1	XYLENE	D001	PK,MSDS
421	1	METHANOL	D001 F003	PK,MSDS
423	17	ELEMENTAL MERCURY	D009	MSDS
425	1	DIGESTION WASTE (ANL-3002: NITRIC AND CYCLOHEXANE)	D001 D004 D005 D006 D007 D008 D010 D011	PK,MSDS
426	1	METHANOL AND CYCLOHEXANE MIXTURE	D001	PK
427	20	NICKEL-CADMIUM BATTERIES	D002 D006	PK
428	1	ACETONITRILE IN WATER	D001	PK,MSDS
429	20	HG BATTERIES	D002 D009	PK
432	7	MERCURY THERMOMETER SPILL CLEAN-UP MATERIALS FROM LAB	D006 D008 D009	PK,MSDS,4,5,9
433	16	AEROSOL SPRAY CANS PROPELLANT	D001	MSDS
434	8	SOLIDS CONTAMINATED BY LAB SAMPLES & MATERIALS	D004 D005 D006 D007 D008 D022 F002 F003	PK
438	1	HYDRAULIC OIL FROM BALER IN DRUM RECONDITIONING	D018	PK,1,3,4,7,8,9
455	1	UNLABLED DRUM CONTAINING 1,1,1 TRICLOROETHANE.	D001 F001	PK,MSDS,1,3,7,8,9
456	3	SOLVENT WASTES STORED ON PLANT 1 PAD	D007 D039 D040 F001 F002	PK,1,3,4,7,8,9
459	1	PAINT	D001 F001 F002	PK,1,4,8,9
460	8	LIQUID & SOLID WASTE SAMPLES	D004 D005 D006 D007 D008 D010 D018 F002	PK,1,3,7,8,9
468	1	OIL AND SOLVENTS W/ ANALYSIS	D001 D007 D008 D010 D018 F002	PK,1,3,7,8,9
473	6	ANTI-C PAPER COVERALLS & BOOTIES W/ LIME SLURRY	F001 F005	PK
476	13	LAB PACKED WATER AND RESIDUE SAMPLES	D007	PK,2,4
479	1	USED PAINT THINNER	D001 D008 D009 D035 F003 F005	PK,1,3,8,9
480	1	USED OIL	D018 F002	PK,1,3,7,9
485	1	KEROSENE	D001	PK,MSDS,1,3,7,8,9
487	2	RAIN WATER FROM UST #8 FORMERLY STORING GASOLINE	D008 D018	PK
507	1	CONTAMINATED SOLVENT GENERATED IN THE PILOT PLANT. (MEK)	D001 D035	PK,MSDS,1,3,7,8,9
508	1	UNUSED PAINT THINNER	D001 D035	PK,1,4,7,8,9
514	1	PAINT WASTE FROM PAINTING BOOTH	D001 D007 D008 F002 F003 F005	PK,1,4,7,8,9
517	6	OIL DRY CONTAMINATED WITH OIL FROM BALER	D007 D008	PK,1,3,4,6,7,8,9
520	1	PETROLEUM PRODUCT WITH RAIN WATER	D018	PK,MSDS
524	1	IGNITIBLE LIQUID, UNKNOWN ORIGIN	D001	1,4,7,8,9
533	1	PAINT: GRAY EPOXY	D001 D006	PK,1,3,8,9
534	1	MEK MARKED ON DRUM BLUEDRUM FLAMMABLE	U159	PK,MSDS
538	10	BORING # 1508	F002 F005	PK
547	18	MISCELLANEOUS LEAD TOOLS PIPING, ETC...	D008	PK

See final page of keys to DETERMINATION BASIS codes and DOE WASTE STREAM TYPES

000067

WASTE ID#	DOE TYPE	WASTE NAME	US EPA HAZARDOUS WATE#	DETERMINATION BASIS
548	18	LEAD - COUNTERWEIGHTS, BEARINGS	D008	PK
584	1	KEROSENE (DIESEL FUEL)/SLUDGE/WATER FROM UST #3	D001 D018	PK,MSDS
585	16	ZINC COMPOUND (AEROSOL)	D001	MSDS
587	1	GREASE AND WATER	D001	1,3,7,8,9
627	8	5-GAL CAN W/ SPILL CLEANOUT MATERIAL	F001	5
628	8	SPILL CLEAN-UP MATERIALS	F001	PK
633	1	OIL FROM UNKNOWN GENERATION SOURCE	D007 D008 D009	PK,1,3,4,7,8,9
634	99	BUFFERED KCN SOLUTION (ABOUT 2 LITERS @ 30 G PER LITER)	P098	PK
635	7	MERCURY SPILL CLEAN-UP AND SPENT MERCURY BATTERIES	D009	PK
638	1	USED OIL	D018	PK
644	8	TRASH, PADS, RAGS, WATER	D008 D010	PK,1,3,5,7,8,9
659	99	LEAD AND WOOD SHAVINGS - UNKNOWN ORIGIN	D008	PK
661	10	BORING # 1594 - FROM NORTHWEST CORNER BLDG. 12	F001	PK,2,4,9,12
675	16	NON-EMPTY AEROSOL CANS, BUILDING 11	D001	MSDS
677	16	NON-EMPTY AEROSOL CANS, BUILDING 12	D001	MSDS
696	2	KODAK ROYALPRINT ACTIVATOR	D002	PK,MSDS
697	2	ROYALPRINT STOP BATH	D002	PK,MSDS
700	14	MAGNESIUM FLAKE AND OILY RAGS	D003	PK
720	10	BORING #1261	F001	PK,2,4,9,12
742	4	OILY SLUDGE FROM FLOOR DRAIN	D018 D019 D021 D028 D039 D040 D043	PK,1,2,3,4,6,8,9
743	9	CONTAINER OF PUMP OIL AND RAGS	F001	PK
757	10	BROWN PARTICULATE SOLID (DIRT AND RUBBLE)	D004 D007 D008 D010 D011	PK,1,4,9,11
768	1	DAAP/SOLVESSO MIXTURE	D001	PK,1,4,8
769	3	PAINT	D001	MSDS
772	7	RESPIRATOR CANISTER	D007 D011	MSDS
776	10	BORING #1674, LOCATED INSIDE PILOT PLT ON NORTHWEST SIDE OF	F001	PK,2,4,9,12
777	1	USED AGITENE	D001 D008 F001 F002	PK,MSDS,1,4,7,8,9
817	6	PAINT CHIPS FROM SAND FILTERS AT WATER PLANT	D008	PK
818	1	OIL AND WATER FROM DRUM DECON. PAD	D001 D008	PK,1,3,7,8,9
819	10	BORING #1251	F001	PK,2,4,9,11,12
820	20	LEAD ACID BATTERIES	D002 D004 D008	MSDS
826	13	METHYL ISOBUTYL KETONE, LABPACKED	D001 U161	PK
827	13	SODIUM AMIDE, STABILIZED AND LABPACKED	D003	PK
828	13	1,4-DIOXANE, STABILIZED, LABPACKED	D001 U108	PK
844	2	URANYL NITRATE SOLUTION (TANKS/DRUMS)	D002 D005 D007	PK
850	1	PAINT WASTE FROM TANK FARM	D001 D035 F002 F003	PK,1,3,4,7,8,9
854	20	NI CD BATTERIES	D006	MSDS
855	20	MERCURY BATTERY	D009	MSDS
868	3	OILY WASTE AND SOLIDS, POSSIBLY FROM DRUM RECONDITIONING	D039	PK,1,3,4,7,8,9
870	1	VARNISH - UNUSED	D001	MSDS
873	2	SPENT FIXER	D011	MSDS

See final page of keys to DETERMINATION BASIS codes and DOE WASTE STREAM TYPES

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WASTE ID#	DOE TYPE	WASTE NAME	US EPA HAZARDOUS WATE#	DETERMINATION BASIS
874	7	LEAD BRICKS, LEAD WINDOW SASHINGS, BABBIT HAMMER	D008	PK
876	7	METAL FRAMES FROM HEPA FILTERS	D006	PK
1058	2	DECANT WATER FROM NPR/AAF PRIMARY SEPARATOR	D001 D009	PK,1,3,7,8,9
1080	7	CADMIUM SPRINGS	D006	4
1081	7	CADMIUM SPRINGS	D006	PK
1178	2	GROUNDWATER FROM WELL #2649	D007 F002	PK,2,4,7,9
1182	1	CLEAR DISPERSANT,TYPE (H) PREMIX-BLACK,CYAN,YELLOW & MAGENTA	D001	MSDS
1183	1	CLEAR DISPERSANT, TYPE (H) PREMIX, TYPE (H) CONCENTRATE	D001	MSDS
1184	1	CLEAR DISPERSANT, TYPE (H) PREMIX, TYPE (H) CONCENTRATE	D001	MSDS
1185	2	TYPE 028 FIX; CD-5 DEVELOPER	D011	MSDS
1187	3	SPENT ACTIVATED CARBON, FROM PERCHED WATER PROJECT	D040	PK,MSDS
1199	7	MERCURY CONTAMINATED FLOOR TILE & PIPE INSULATION	D009	PK,MSDS
1229	2	CONTAMINATED SUMP WATER	D008 D009 D039	PK,1,2,4,7,8,9,11,12,13
1251	1	FREON 11	U121	PK,MSDS,5
1271	7	LEAD SOLDER JOINTS	D008	PK
1272	4	MERCURY CONTAMINATED MATERIALS FROM SINK TRAPS IN LAB	D007 D008 D009	PK,1,4,7,8,9,13
1273	2	CONTAMINATED WATER	D007 D008 D009	PK,1,3,7,8,9
1279	2	PLUTONIUM 239 SOLUTION	D002	PK
1281	7	LEAD BRICKS	D008	PK
1297	2	PC 49896 ITEK UNIVERSAL DEVELOPER	D011	MSDS,4
1298	2	ITEK PC 49907 ITEK INSTACOLOR ACTIVATOR	D002 D011	MSDS,4
1306	10	SPILL CLEAN-UP FROM K-65 AREA.	D001 D008	PK,1,3,5,7,8,9
1337	1	UNSPECIFIED IGNITIBLE LIQUID	D001	1,3,7,8,9
1363	3	OILY SLUDGES FROM WWTS AREA	D005 D006 D007 D008 D009	PK,1,4,5,7,8,9
1380	4	NON OILY SUMP CLEANOUT MATERIAL FROM PLANT 8 OPERATIONS	D007 D008	PK,1,3,4,5,7,8,9
1389	4	SCRAP U308 FROM OXIDATION FURNACE #1	F002	PK,1,4,5,9
1404	11	EXCAVATED SOIL FROM SPILL UNDER BLDG 64 LATHES	D008	PK,MSDS,1,4,5,9
1405	4	CLEANING AND WASH BATH WASTE FROM DECON. PAD	D008	PK,MSDS,1,3,7,8,9
1411	1	CONTAMINATED SOLVENT FROM PAINT SHOP	D001 D005 D007 D008 D009 D010 D011 D018 D019 D035 F002 F003 F005	PK,1,3,6,7,8,9
1414	1	OIL AND FUEL FROM GARAGE AREA	D001 D008	PK,1,3,8,9
1415	1	CONTAMINATED INSOLUBLE OIL	D001 F001 F002	PK,1,3,7,8,9
1421	8	OILY RAGS, PADS, GLOVES AND PLASTIC WITH GREASE	D008	PK,1,4,6,9
1423	1	CONTAMINATED INSOLUBLE OIL	D008 D009 D039 D040 F001 F002 F003 F005	PK,1,3,7,8,9
1425	8	CONTAMINATED RAGS PAPER POLYETHYLENE FROM RMI	D005 F001	PK,1,4,5,9
1427	8	MOP HEADS AND PADS CONTAMINATED WITH 1,1,1 - TRICHLOROETHANE	F002	PK,1,4,5,9
1428	8	SPILL CLEANUP MATERIAL FROM BLDG 79 RCRA STORAGE PAD	F001 F002	PK
1429	1	CONTAMINATED ORGANIC CHEMICAL SOLVENT	D001 D008 D018 D028 D035	PK,1,3,7,8,9
1430	8	PLASTIC SHEETING, GLOVES, FLOOR SWEEPINGS	D010	PK,1,3,4,5,7,8,9
1432	1	NON CHLORIDE CONTAMINATED SUMP LIQUOR (KEROSENE)	D001	1,3,7,8,9
1438	3	NON-OILY CLEANOUT SLUDGES FOR ROASTING	D039	PK,1,3,4,7,8,9
1447	1	SUMP WASTE FROM PLT 1 PAINTING BOOTH	D001 D008 F003 F005	PK,1,3,7,8,9

See final page of keys to DETERMINATION BASIS codes and DOE WASTE STREAM TYPES

WASTE ID#	DOE TYPE	WASTE NAME	US EPA HAZARDOUS WATE#	DETERMINATION BASIS
1462	2	CONTAMINATED WATER FROM CHEMICAL PIT #2 SURFACE CAP	D002	PK,1,3,7,8,9
1501	7	SPILL CLEANUPS OF OIL AND GAS FROM GASOLINE ENGINES	D018	MSDS
1504	3	FLAMMABLE PAINTS AND PAINT RELATED PRODUCTS	D001	MSDS
1550	14	URANIUM HEXAFLUORIDE AND URANIUM TETRAFLUORIDE	D003	MSDS
1575	2	URANYL NITRATE (UNH)	D001	PK
1585	20	LEAD ACID BATTERY (BROKEN)	D002 D008	MSDS
1589	4	RAFFINATES - NON-NEUTRALIZED	D001 D002	MSDS
1613	2	123 PROCESSOR CLEANER	D002	MSDS
1617	8	CONTAMINATED PPE, PLASTIC, TRASH (CONTACT WASTE)	F001 F003 F005	PK
1621	2	HYDROCHLORIC ACID	D002 D006 D007 D008	PK,4,7
1622	2	NITRIC ACID	D002 D006 D007 D008	4,9
1665	1	ELECTROSTATIC MASTER LIQUID DEVELOPER	D001	MSDS
1667	1	ISOPROPYL ALCOHOL	D001	MSDS
1691	2	HYDROFLUORIC ACID	D002	PK,MSDS
1692	2	NITRIC ACID	D002 D007	PK,MSDS
1694	2	QC WATER BLANKS	D006 D009 D010 D011 D018 D039 D040	PK,1,3
1705	1	LAB GENERATED WASTE, OIL FROM TCLP EXTRACTS	D001 D004 D006 D008 D010	1,3,7,8,9,11
1706	1	LAB WASTE, TCLP EXTRACT	D018 D021 D035 D038 D039 D040 D043 F002 F005	PK,1,4,7,8,9
1707	2	LAB GENERATED WASTE, ACID DIGESTATES	D002 D007 D008 D019 D028 D039 F001 F002	PK,2,4,7,8,9,11,12
1709	1	LAB GENERATED WASTE FLAMMABLE ORGANIC EXTRACTS	D001 D002	PK,2,4,7,8,9
1710	1	ORGANIC LIQUID WASTE	D001 D010 F002	PK,1,3,7,8,11,12
1711	2	METALS EXTRACTS AND DIGESTS	D002 D008 D009 D010 F001 F002 F005	PK,1,3,7,8,11,12
1712	2	DIGEST FROM MERCURY LAB WASTE	D002 D008 D010	1,3,7,8,11,12
1713	1	OIL FROM TCLP EXTRACTS	D040 F001 F002 F005	PK,1,3,8,11,12
1714	7	VOLATILE SOLID WASTE	D010	2,4,11,12
1715	7	CONTACT WASTE (LAB GENERATED WASTE)	D004 D008 D010 F001 F002 F005	2,4,7,11,12
1716	7	LAB GENERATED WASTE, CONTACT WASTE SOLID	F001 F002 F005	PK,1,4,11,12
1725	1	LUBRICATING OIL FROM GASOLINE ENGINES	D018	PK
1728	1	CRANKCASE OIL	D006 D008 D018	PK,MSDS,1,2,3,9
1729	1	LEADED GASOLINE	D001 D008 D018	PK,1,3,8,9
1731	18	LEAD	D008	PK
1737	2	HARDENER	D002	MSDS
1740	8	(DOP) DI OCTYL PHTHALATE	U107	PK
1751	2	SPENT FIXER	D011	MSDS
1764	1	MULTILITH BLANKROLA SOLVENT	D039	MSDS
1773	2	CONCENTRATE FIXER	D011	PK
1775	1	DEGLAZING SOLVENT	F002	PK,MSDS
1789	4	UNH	D004 D006 D007 D008 D010	PK,4,7,9,13
1799	1	USED MINERAL SPIRITS	D001 D018	MSDS
1815	6	SPENT FUELS	D001 D018	MSDS
1819	16	WHATMAN RAD-CON	D001	MSDS

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WASTE ID#	DOE TYPE	WASTE NAME	US EPA HAZARDOUS WATE#	DETERMINATION BASIS
1822	16	SPRAY ADHESIVE	D001	MSDS
1841	11	SOIL	F001 F002	PK,1,9,11
1842	9	GRASS ON THE SOIL	F001 F002	PK,1,9,11
1849	2	BUFFER SOLUTIONS PH 1 & 2	D002	MSDS
1856	1	SOLVENT CONTAINING MATERIAL, NON-SPECIFIC ORIGIN	F001 F002	PK,1,4,9
1895	7	PAINT BRUSHES WITH DRIED PAINT	D007 D008	PK
1904	16	CENOLLO E100 OVERNIGHT SPRAY	D001	MSDS
1906	7	HF TANK CLEAN-OUT MATERIAL	D007 U134	PK,MSDS,1,2,4,5,10
1922	18	LEAD SHIELDING FROM X-RAY SYSTEM	D008	PK
1927	2	METALS EXTRACTS AND DIGESTS (IGNITABLE)(LAB GENERATED WASTE)	D001 D002 D008 D009 D010 F001 F002 F003 F005	PK,1,3,7,8,11,12
1928	1	COMPUBLEND CLEANING LIQUID (IGNITIBLE)	D001	MSDS
1937	2	COMPUBLEND CLEANING LIQUID (CORROSIVE)	D002	MSDS
1938	1	LIQUID SOLVENT WASTE FROM PAINT BOOTH SUMP	D007 D008 D010 F005	PK,1,3,7,8,9
1946	10	SOIL CUTTINGS FROM OUTDOOR FIRING RANGE	D008	1,4,9,11
1949	4	DRAW TEMP 275	D001	PK,MSDS,5
1952	1	TBP & KEROSENE DAAP & SOLVESSO	D001 D008	1,4,8
1969	16	FLAMMABLE AEROSOLS	D001 D007 D008 D018 D019 D035 D039	MSDS
1973	1	ETHOXYETHANEL, MIBK, METHOXYETHONAL 1,4 DIOXANE, ETHYL ETHER	D001 U108 U117 U161 U213 U359	PK
1974	1	ANYDROUS ETHER, STABILIZED	D001 U117	PK
1975	6	PVC PIPING FROM PLT 6 PERCHED WATER EXTRACTION PROJECT	F001	PK,2,4,9,10,11,12
1987	18	LEAD & DEBRIS	D008	PK
1998	1	METHANOL AND CYCLOHEXANE	D001 F003	PK,MSDS
1999	2	NESSLER, REAGENT, COD DIGESTION SOLUTION ROCHELLE SALT	D002 D007 D009 D011	PK,MSDS
2006	1	CURING COMPOUND	D001	MSDS
2014	3	EPOXY-PRIME COAT LDC-1000	D001 D035	MSDS
2016	3	PAINT BITUMASTIC 300 M A & B COLD TAR COATING	D001 D018 D026	MSDS
2021	7	BARIUM CARBONATE	D005	MSDS
2024	1	PAINT	D005	MSDS
2036	1	SAVIN PRODUCT CODE 4537 T-D PAK 4522 SAVIN 765 DISPERSANT	D001	MSDS
2037	1	SAVIN PRODUCT CODE 4536	D001	MSDS
2048	5	SOLIDIFIED LAB WASTE	F001 F002 F005	PK
2053	2	SILVER THIOSULFATE	D011	PK,MSDS
2063	1	TEXO CORP. TEXOL-7	D001	MSDS
2064	1	DIVERSEY SUPER MUL SOLVENT CLEANER	D001	MSDS
2066	2	VESTAL DOUBLE BARREL CLEANER	D002	MSDS
2067	2	STATE ACIDINE ACID SCALE AND RUST REMOVER	D002	PK,MSDS
2068	2	STATE NO. 810 ALUMINUM BRIGHTENER	D002	MSDS
2069	7	SKC OXIDIZER TUBES	D007	PK,MSDS
2085	1	CHLORINATED SOLVENTS	D007 F001 F002	PK,MSDS
2090	7	VARIOUS AA LAMPS	D005 D006 D008	PK,4
2120	14	LITHIUM BATTERIES	D003	PK,MSDS

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WASTE ID#	DOE TYPE	WASTE NAME	US EPA HAZARDOUS WATE#	DETERMINATION BASIS
2210	2	HYDROGEN PEROXIDE SOLUTION	D001	PK,MSDS
2211	17	USED MERCURY FROM MISC. EQUIPMENT	D009	PK,MSDS
2224	1	FLOOR COATING BASE	D001	PK,MSDS
2235	1	LAB GENERATED WASTE ORGANIC LIQUID WASTE	D010 F002	PK,1,3,7,8
2257	2	TCLP EXTRACTS LAB GENERATED WASTE	D002	PK,3,7,8
2259	2	TCLP LEACHATE	D009 F001 F002	PK,5
2362	2	RADIOACTIVE ACIDIC LAB WASTE FROM THE ANALYSIS OF SAMPLES	D002 D007 D008 D018 D019 D021 D022 D028 D029 D035 D039 D040 D043	PK,1,3,7,8,9,11
2363	2	RADIOACTIVE CAUSTIC LAB WASTE FROM THE ANALYSIS OF SAMPLES	D001 D002 D006 D008 D009 D018 D035 D038 D039 D040	PK,1,3,7,8,9,11
2364	2	RADIOACTIVE NEUTRAL LAB WASTE FROM THE ANALYSAS OF SAMPLES	D001 D006 D007 D008 D018 D035 D039 D040	PK,1,3,7,8,9,11
2395	7	CONTACT WASTE FROM CTC LAB	D007 D008 D009 D039 F001 F002 F005	PK
2401	8	CONTACT WASTE FROM PACD SAMPLING	F001 F002 F003 F005	PK
2402	2	WATER USED TO CLEAN SAMPLING EQUIPMENT	F001 F002 F005	PK
2403	1	DIRT, ROCKS, AND WOOD WITH LIQUID; UNKNOWN SOURCE	D001	PK,1,3,4,5,7,8,9
2409	1	USED DEXSIL PCB SCREENING KIT (LIQUID)	D002 D009	PK,MSDS
2410	8	USED MILLIPORE PCB TEST KIT (LIQUID)	D002	PK,MSDS
2418	7	BROKEN GLASS AND OLD FLOURESCENT LIGHT BULBS	D009	PK,MSDS,5
2425	2	CTC CORROSIVE WASTE	D002 F001 F002 F005	PK
2443	8	TRASH AND DEBRIS FROM UNKNOWN SOURCE	D008	PK,1,4,5,9
2465	1	CONTAMINATED WATER/SUMP LIQUOR FROM UNKNOWN SOURCE	D001 D007 D008 D010	PK,1,3,7,8,9
2483	7	HEPA FILTERS FROM MAWS - CHROMIUM CONTAMINATED	D007 D011	PK
2489	12	LAB PACK	PLCS	PK
2498	1	SUMP LIQUOR	D008 D012 D039 F002 F003	PK,MSDS,1,3,7,8,9,12
2499	5	CONCRETE ABANDONED PILOT PLANT SUMP	F002 F003	PK,1,4,9,13
2500	7	METAL TANK ABANDONED PILOT PLANT SUMP	F002 F003	PK
2501	9	SOILS ABANDONED PILOT PLANT SUMP	F002 F003	PK,1,3,4,12
2507	4	PILOT PLANT SUMP (HWMU) BOTTOMS/SEDIMENT	D007 D008 D009 D039 F002 F003	PK,MSDS,1,4,9
2524	2	ALKALINE CONTAMINATED SUMP WATER FROM DECON. PAD	D002	PK,1,3,4,7,8
2526	3	ANAEROBIC SEWEGE SLUDGE WASTEWATER TREATMENT FACILITY	F002	PK
2527	8	PAPER, PLASTIC, PPE (TYVEK, SARANEX) ABSORBENT PADS	F002 F003	PK
2530	1	MAGNAFLUX CLEANER	F002	PK,MSDS
2547	8	GASOLINE/DIESEL FUEL FILTERS	D018	PK,MSDS
2554	2	ACID WASTE	D002	PK
2556	1	ETHYL ACETATE	D001	PK,MSDS
2559	1	USED HEPTANE MIXTURE	D001	PK,MSDS
2578	12	LAB PACKS	PLCS	PK
2581	6	CONTAMINATED PALLETS	F002	PK,MSDS
2591	8	PADS ANTI-C'S & ABSORBANT CONTAMINATED WITH FORMIC ACID	U123	PK,MSDS
2594	2	THORIUM NITRATE SOLUTION	D002 D006 D007	PK,3,7,9,13
2599	12	LAB PACKS, NON-RAD CONTAMINATED	PLCS	PK,MSDS
2605	1	ACCUMULATED LIQUIDS FROM AEROSOL PUNCTURING FACILITY	D001	PK
2606	2	ACID DIGEST - ARSENIC	D002 D004 D038	PK,1,2,4,7,8,9,11,12

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WASTE ID#	DOE TYPE	WASTE NAME	US EPA HAZARDOUS WATE#	DETERMINATION BASIS
2607	2	ACID DIGEST-NO MERCURY	D002 D008 D018	PK,1,4,7,8,9,11,12
2611	2	DECONTAMINATION WASH/FLUSH WATER	D008 F001 F002	PK,1,3,10,11
2612	7	PPE/CONTACT WASTE FROM DETREX STILL CLOSURE	F001 F002	PK
2613	7	SCABBLED CONCRETE FROM DETREX STILL CLOSURE	F001 F002	PK,1,4,9,11,13
2614	8	SCRAP WOOD, STRAW, ASHES, TIRES, PLASTIC, SOOT, METAL & OTHER DEB	F002 F005	PK
2618	7	DETREX STILL TANK(INCLUDING ASBESTOS COVER), ASSOC. PIPING AND PU	F001 F002	PK
2620	2	WASTEWATER FROM FTF CLOSURE	F002 F005	PK,1,3,11
2621	7	SCRAP METAL CONTAMINATED WITH F-LISTED SOLVENTS (OPEN TOP TANK)	F002 F005	PK
2622	7	SCABBLED CONCRETE FROM FTF, CONTAMINATED WITH SOLVENTS	F002 F005	PK
2624	8	CONTACT WASTE CONTAMINATED WITH F-LISTED SOLVENTS	F002 F005	PK
2625	8	CONTACT WASTE CONTAMINATED WITH F-LISTED SOLVENTS AND PCB	F002 F005	PK
2626	3	SEDIMENTS/SLUDGES FROM OPEN TOP TANK AT FIRE TRAINING FAC.	D007 D008 D018 D029 D030 D032 D033 D040 F002 F005	PK,1,2,3,4,11
2627	1	NEGATIVE FILM HAND DEVELOPER	D001	PK,MSDS
2632	1	ELECTROSTATIC PLOTTER TONER	D001	PK,MSDS
2633	9	PETROLEUM CONTAMINATED SOIL FROM THE POND AREA OF THE FTF	F002 F005	PK,2,4,6,7,9,11,12,13
2636	1	IGNITABLE PROJECT CONTACT MATERIAL	F001 F002 F003 F005 U019 U211	PK
2640	7	ASPHALT/GRAVEL FROM FTF	F002 F005	PK
2655	1	ACID DIGEST WITH PYRIDINE	D002 D009 D038	PK,1,3,4,7,9,11
2656	2	METHYLENE CHLORIDE EXTRACTS	F002	PK
2657	8	METHYLENE CHLORIDE EXTRACTED SOLIDS	F002	PK
2668	8	MISC. SOLIDS FROM HWMU #26	D007 F001 F002	PK
2674	9	PETROLIUM CONTAMINATED SOIL FROM OPEN TOP TANK TRENCH	F002 F005	PK,1,4,9,10,11,12,13
2675	16	SMALL PROPANE CYLINDERS	D001	PK
2678	2	CAUSTIC WASTE	D002	PK
2684	2	ACID (WET) WASTE	D002	PK,2,4,9,11,12
2685	1	WASTE PYRIDINE AND WATER	D038	PK,2,4,9,11,12
2687	2	ACID (EXT) WASTE WITH LEAD	D002 D008	PK,2,4,9,11,12
2691	8	MISCELLANEOUS TRASH CONTAMINATED WITH TETRACHLOROETHYLENE	D039	PK,2,9,10,13
2694	1	TCLP EXTRACT	D039 F002 F003 F005	PK,1,2,4,7,8,9,11,12
2695	1	FLAMMABLE ORGANIC EXTRACTS	D001 D038 F002 F003 F005	PK,1,2,4,7,8,9,11,12
10002	7	SCRAP SALTS	D005 D008	1,4,9
10003	3	OILY OXIDATION SLUDGES WITH HIGH FREE METAL	D001 D039 F001	1,4,7,8,9
10004	1	CONTAMINATED SOLVENT - TRICHLOR, PERCHLOR	D007 D018 D019 D021 D029 D039 D040 F001	PK,1,4,7,8,9
10005	7	CONTAMINATED SOIL, ROCKS, BRICKS AND CERAMICS	D008	1,4,9
10006	1	CONTAMINATED OIL - INSOLUBLE	D008 D009 D039 F002 F003 F005	PK,1,2,4,7,8,9
10007	3	OILY SLUDGES	D007 F001	1,4,7,8,9
10009	3	SLUDGES - SOLVENT (TRICHLOR, PERCHLOR, ETC.)	D001 D008 D035 F005	1,4,7,8,9
10010	3	SLUDGES, OILY	D029 D039 D040 F001	PK,1,4,7,8,9
10011	8	CONTAMINATED BURNABLES	D005	PK,1,4,9
10012	8	CONTAMINATED BURNABLES	D029 D039 D040 F001	PK,1,4,9
10013	4	SUMP CAKE	D005 D007	1,4,9

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WASTE ID#	DOE TYPE	WASTE NAME	US EPA HAZARDOUS WATE#	DETERMINATION BASIS
10014	2	U-CONTAMINATED WATER	D039	1,4,9
10015	2	U-CONTAMINATED WATER FROM PILOT PLANT EXTRACTION AREA	D039	1,4,7,8,9
10016	3	OILY SLUDGE	D010 D035 F001	PK,1,4,7,8,9
10021	3	SLUDGES, OILY	D008 D018 D019 F002	PK,1,4,7,8,9
10022	4	GRIT BLAST	D008	4,9
10023	8	NON-RECOVERABLE TRASH	D008 F001	PK,1,3,10
10024	6	TRASH CONT. TO SOLVENT	D018 F001	PK,1,4,5,9
10025	7	CONTAMINATED SOIL AND ROCKS	D005	PK
10026	1	1,1,1-TRICHLOROETHANE STILL BOTTOMS	D009 F001 F002	PK,2,4,7,8,9
10027	1	CONTAMINATED OIL, INSOLUBLE	D039 D040 F001	PK,MSDS,1,4,7,8,9
10028	3	SLUDGES, OILY	D008 D028	PK
10029	1	CONTAMINATED INSOLUBLE OIL	D006 D007 D008 D019 D029 D040 F001	PK,1,4,7,8,9
10030	1	CONTAMINATED SOLVENTS (METHANOL)	D001 F003	PK
10031	3	FLOOR SUMP CLEANOUT SLUDGE	D029 D039 F001	PK,1,4,7,8,9
10032	1	CONTAMINATED OIL, INSOLUBLE	F001	PK,2,4
10034	12	BENZENE (LABPACKED)	D001 D018 U019	PK
10035	12	CARBON TETRACHLORIDE (LABPACKED)	D019 U211	PK
10036	12	ETHYL ETHER (LABPACKED)	D001 U117	PK
20003	1	DEGREASING SOLVENT	D001 D019 D022 D028 D029 D035 D039 D040 F001 F003 F005	PK,1,2,9,11
20007	3	OIL CONTAMINATED WET SUMP OR FILTER CAKE	D011	1,4,7,8,9
20015	4	SCRAP SALTS AND FLOOR SWEEPINGS - LOW FLUORIDE	D007	PK,1,4,5,9
20021	1	CONTAMINATED INSOLUBLE OIL	D019 D029 D039 D040 F001	PK,1,2,4,7,8,9
20024	4	SCRAP SALTS AND FLOOR SWEEPINGS - HIGH FLUORIDE	D007 D008	1,4,9
20027	4	DUST COLLECTOR RESIDUES - HIGH FLUORIDE	D004 D011	2,4,9,11
20028	1	CONTAMINATED OIL - INSOLUBLE	D039 D040 F001	1,2,4,7,8,9
20031	1	CONTAMINATED OIL, INSOLUBLE GEAR OIL, LUBRICATING OIL	D008 D018 D019 D028 D029 D039 D040 F002	1,2,4,7,8,9
20033	4	DRY DUST COLLECTOR POWDER	D008	1,4,9,11
20035	4	DUST COLLECTOR RESIDUES - HIGH FLUORIDE	D007	4,9
20036	7	SCRAP SALTS AND FLOOR SWEEPINGS - LOW FLUORIDE	F001	PK,2,4,9,11
20037	3	PROCESS RESIDUES, TRAILER CAKES, SLURRIES, RAFFINATES	D029	2,4,9,11
20038	1	USED OIL FROM PILOT PLANT MAINTENANCE	D006 D008 D018 D019 D028 D029 F002	PK,1,2,4,7,8,9,11
20041	4	NON-METALLIC MISCELLANEOUS SAMPLES	D007	PK,4,7,8,9
20045	3	CONTAMINATED TBP AND/OR KEROSENE MIXTURES AND SLUDGES	D019 D022 D039 F002	PK,1,2,4,7,8,9,11
20046	4	NON-METALLIC MISCELLANEOUS SAMPLES	D007	3,9
20047	4	SCRAP SALTS AND FLOOR SWEEPINGS - LOW FLUORIDE	D004 D008	2,4,9,11
20048	3	PROCESS RESIDUES, TRAILER CAKES, SLURRIES, RAFFINATES	F005	PK,1,4,9
20054	1	CONTAMINATED SOLVENT - TRICHLOR, PERCHLOR	D019 D022 D028 D029 D039 F001 F005	PK,1,2,4,7,8,9
20055	1	CONTAMINATED OIL - INSOLUBLE	D029 D039 F002	PK,1,2,4,7,8,9,11
20058	4	DUST COLLECTOR RESIDUES - HIGH FLUORIDE	D006 D008	PK,4,9
20094	8	CONTAMINATED BURNABLES, RAGS, FILTER, CLOTH	D008 D011 F001	PK,1,4,7,8,9
20095	8	RAGS CONTAMINATED, TETRACHLOROETHYLENE SILVER	D011 D039	PK,1,4,9

See final page of keys to DETERMINATION BASIS codes and DOE WASTE STREAM TYPES

000074

2057

WASTE ID#	DOE TYPE	WASTE NAME	US EPA HAZARDOUS WATE#	DETERMINATION BASIS
20107	8	GRIT-BLAST RESIDUE FROM LEAD PAINT REMOVAL ON EAST TOWER	D008	PK,1,4,5,9
20109	7	DUST COLLECTOR BAGS	D004 D006 D008	1,4,9
20120	7	DUST COLLECTOR BAGS	D007	4,9
20139	7	SAMPLES, NON-METALLIC	D005	1,4,7,8,9
20142	3	CONTAMINATED TBP-KEROSENE	D001 D019 D022 D039 F002 F003	PK,1,2,4,7,8,9,11
20143	8	NON-RECOVERABLE TRASH	D011	1,4,5,7,8,9
20145	4	DECANTED WATER FROM SUMP/FILTER CAKES	D002 D007	PK,1,3,4,7,8,9
30005	3	OILY SLUDGES	D001 D019 F002	PK,1,4,7,8,9
30010	3	WET SUMP OR FILTER CAKE - OIL CONTAMINATED	D039 D040 F002	PK,1,7,8,9
30018	3	WET SUMP OR FILTER CAKE - NON-OILY, NON-HALIDE	D039 F002	PK,1,4,7,9
30027	10	CONTAMINATED SOIL, ROCKS, BRICKS AND CERAMICS	D004 D005 D007 D008 D010 D011	1,2,4,5,7,8,9
30033	1	CONTAMINATED SOLVENT - TRICHLOR, PERCHLOR	D001 D039 F003 F005	PK,1,4,5,7,8,9
30034	1	OIL CONTAMINATED WITH SOLVENTS (TANK 5)	D018 F001	PK,2,4,7,8,9
30036	4	DUST COLLECTOR RESIDUES - HIGH FLUORIDE	D006 D008	1,4,9
30037	3	PROCESS RESIDUES, TRAILER CAKES, SLURRIES, RAFFINATES	F002	PK,1,4,9
30039	7	CONTAMINATED ROCKS, SOIL, ETC., WITH NO FREE LIQUIDS	D011	1,2,4,7,8,9
30042	3	WET SUMP OR FILTER CAKE - NON-OILY, NON-HALIDE	D039	PK,1,4,9
30045	3	OILY SLUDGES, HIGH FREE METAL	D001 D039 D040	1,4,7,8,9
30046	3	NON-OILY CLEANOUT SLUDGES FOR ROASTING	D019 F001	1,4,7,8,9
30047	4	SOLVENT SLUDGE, TRICHLOR, PERCHLOR, ETC...	D007 D011	1,4,9
30053	8	PROCESS RESIDUES, TRAILER CAKES, SLURRIES, RAFFINATES	D006 D007 D008	PK,1,4,9
30060	4	WET SUMP OR FILTER CAKE - NON-OILY, NON-HALIDE	D005	1,4,9
30074	8	CONTAMINATED NON-BURNABLES	F002	PK,1,4,5,9
30080	2	CONTAMINATED SOIL, ROCKS, DEBRIS, W/ FREE LIQUIDS 'CONTAINS FREE LI	D002 D004 D007 D008 D011	1,2,4,7,8,9
30081	3	DISCARD PROCESS RESIDUES, TRAILER CAKES, SLURRIES,RAFFINATES	D002	1,4,7,8,9
30082	8	CONTAMINATED NON-BURNABLES	D011	PK,1,4,5,9
30174	6	OIL-STAINED RAGS,TRASH,WIRE	D004 D008 D011	PK,1,4,5,6,9
40122	4	THORIUM TRAILER CAKES; WASTE SLURRIES	D002 D005 D009	1,3,8
40137	7	UNFIRED REDUCTION CHARGES PLUS CaF2	D001 D003 D003	PK,MSDS
40152	7	SCRAP THO2 -HIGH F	D005	4,5
40181	2	THORIUM NITRATE SOLUTION	D002 D007 D008	PK
40182	2	THORIUM NITRATE SOLUTION	D002 D007 D008	PK
40185	7	IMPURE THORIUM NITRATE (SOLID)	D001 D007 D008	PK
40186	7	IMPURE THORIUM NITRATE (SOLID)	D001 D007 D008	PK
40187	7	IMPURE THORIUM NITRATE (SOLID)	D001 D007 D008	PK
40188	7	IMPURE THORIUM NITRATE (SOLID)	D001 D007 D008	PK
40189	7	IMPURE THORIUM NITRATE (SOLID)	D001 D007 D008	PK
40192	4	THO2 POWDER REFINERY FEED	D008	PK,7
50002	6	NON-RECOVERABLE TRASH	D001	1,4,5,7,8,9
50008	3	SUMP CAKE - COPPER CONTAMINATED	D001	1,4,7,8,9
50010	1	NON-RECOVERABLE TRASH	F002 F005	PK,1,4,5,7,8,9

WASTE ID#	DOE TYPE	WASTE NAME	US EPA HAZARDOUS WATE#	DETERMINATION BASIS
50014	8	NON-RECOVERABLE TRASH	D019	PK,1,4,5,7,8,9
50022	1	CONTAMINATED WATER	D001 F003	PK,1,4,7,8,9
50025	7	CONTAMINATED GRAPHITE	F001 F002	PK,9
50031	7	CONTAMINATED METALLIC FILTER ELEMENTS AND OIL	D008 D010	1,4,5,8,9
50036	8	CONTAMINATED BURNABLE	D007 F002	PK,1,4,9
50058	7	DUST COLLECTOR BAGS	D007	PK,1,4,9
50063	4	ROASTED MG F2/OTHER MATERIAL	D004 D008	4,9
50068	3	NON-OILY SLUDGE FOR ROASTING	D001	1,4,7,8,9
50070	3	NON-OILY SLUDGE FOR ROASTING	D008 F001 F002	PK,1,4,7,8,9
50071	3	SOLVENT SLUDGE	D001 D007	1,4,8,9
50072	1	CONTAMINATED SUMP WATER AND HYDRAULIC OIL	D001 D008 D019 D039 D040	PK,1,4,7,8,9
50085	3	WET CAKE, NON-OILY/HALIDE	D001 F002 F003 F005	PK,1,4,7,8,9
50089	4	MAGNESIUM POWDER AND TURNINGS	D001	PK,MSDS
50095	1	CONTAMINATED INSOLUBLE OIL	D007	1,4,7,8,9
50096	1	CONTAMINATED SOLVENTS FROM WATER TREATMENT	D001 D007	PK,1,4,5,7,8,9
50102	4	PROCESS RESIDUES, TRAILER CAKES, SLURRIES, RAFFINATES	D006 D008	1,4,9
50113	3	ROASTED CALCIUM-PRECIPITATED SUMP AND FILTER CAKES	F002	PK,1,4,9
50129	4	SCRAP U3O8 - LOW F	F002	PK,4,9
50131	4	SCRAP U3O8 - LOW F	F002	PK,9
50148	4	SCRAP U3O8 HIGH F	D004	1,4,6,7,8,9
50152	4	SCRAP U3O8 OR THO2, HIGH FLUORIDE	F002	PK,9
50154	4	ROASTED CALCIUM-PRECIPITATED SUMP OR FILTER CAKES	F002	PK,1,4,9
50165	4	ROASTED OFF-SITE SUMP CAKE	D007	4,9
50169	4	NON-OILY SLUDGE FOR ROASTING	D007	1,4,9
50170	4	SALT SLUDGE FOR PLANT 8	D004 D019 D039 F002	PK,1,4,9
50173	4	SALT SLUDGE, CHLORIDE	D007	1,4,7,8,9
50174	4	SALT SLUDGE, CHLORIDE	D007	PK,MSDS,4,6,7,8,9
50175	4	SALT SLUDGE,CHLORIDE	F002	PK,1,4,7,8,9
50177	4	FURNACE SALT,NON CHLORIDE	D001 D004 D008	4,7,8,9
50178	4	FURNACE SALT,NON-CHLORIDE	D001	4,7,8,9
50180	4	FURNACE SALT,NON-CHLORIDE	D007 D008 D010	1,4,9
50183	4	SCRAP SALTS,LOW F	F001	PK,1,4,9
50185	4	SCRAP SALT,HIGH F	D009	4,5,9
50197	4	SLUDGES FOR BLENDING	D007	1,2,6,7,8,9
50200	3	OILY SLUDGE FOR OXIDATION	D001 F001	1,4,7,8,9
50202	3	OILY SLUDGE FOR OXIDATION	D001 D010	1,4,7,8,9
50203	4	OILY SLUDGE FOR OXIDATION	D008	1,4,9
50204	3	OILY SLUDGE FOR OXIDATION	D001 D010	1,4,7,8,9
50293	4	U3O8 FOR REOXIDATION	D004	4,9
50339	3	SLUDGES, OILY, FOR OXIDATION, HIGH FREE METAL	F002	PK,1,4,7,8,9
50346	3	OILY SLUDGE FOR OXIDATION	D001	1,4,7,8,9

WASTE ID#	DOE TYPE	WASTE NAME	US EPA HAZARDOUS WATE#	DETERMINATION BASIS
50347	3	DISCARD PROCESS RESIDUE	D001	1,4,7,8,9
50349	4	DUST COLLECTOR RESIDUES - HIGH FLORIDE	D008	PK,1,4,9
50351	4	DUST COLLECTOR RESIDUES-HIGH FLOURIDE	D004 D008	4,7,8,9
50355	3	DISCARD PROCESS RESIDUE	D001	1,4,7,8,9
50358	6	CONTAMINATED NON-BURNABLE	D001	1,4,5,7,8,9
50359	6	NON-RECOVERABLE TRASH	F002	PK,1,4,6,9
50361	7	NON-RECOVERABLE TRASH	D009	5
50364	4	U3O8, +8MESH, LOWF	D007 F001 F002	PK,4,5,9
50367	7	NON-RECOVERABLE TRASH	D008	PK,9
50387	4	SALT SLUDGE, CHLORIDE	D005	PK,4,9
50405	4	NON-RECOVERABLE TRASH	D006 D007	4,5,7,8,9
50406	4	FURNACE SALT, CHLORIDE	D004 D011	4,5,9
50408	4	FURNACE SALT NON-CHLORIDE	D008 D010	4,7,8,9
50412	3	NON-OILY SLUDGE FOR ROASTING	D008	PK,1,4,7,8,9
60008	8	NONRECOVERABLE TRASH	D008	PK,2,3,4,6,9
60013	1	OFF-SPEC. PAINT	D001	PK
60017	8	OILY RAGS AND CLOTHING	D039	PK,2,3,4,9
60039	1	CONTAMINATED SOLVENTS	D001 D018	PK,1,3,7,8,9
60040	1	SOLVENT MIXTURE; UNSPECIFIED ORIGIN	D001 D008 D035	PK,1,4,7,8,9
60042	1	CONTAMINATED SOLVENTS	D001 D006 D008 D009 D019 F002	PK,1,3,7,8,9
60044	1	CONTAMINATED SOLVENT MIXTURE, (TCA & CCL4)	D001 F001	PK,1,3,7,8,9
60046	1	SOLVENT MIXTURE WITH ABSORBENT PADS	D001 D018 D019 D021 D035 D039 D040	PK,1,3,7,8,9
60049	1	MIXED ORGANICS FROM BLDG 15 PROCESS DEVELOPMENT	D001 D004 D008 D010	PK,1,3,7,8,9
60051	1	SOLVENTS & FILTER MATERIAL	D039 F002	PK,1,2,3,4,6,7,8,9
60052	1	USED SOLVENT FROM GARAGE	D001 D007 D008 F002	PK,1,3,8,9
60053	1	GASOLINE REMOVED FROM GARAGE UST	D001 D008 D018	PK,1,4,7,8,9
60055	1	LEADED GASOLINE FROM TANK # 12	D001 D008 D018	PK,MSDS,1,3,8,9
60056	1	USED CHLORINATED SOLVENT MIXTURE	D001 D007 D008 D009 D039 F002	PK,MSDS,1,3,7,8,9
60058	1	WASTE SOLVENT FROM BOILER PLANT	D001 D008 F002	PK,1,2,3,4,7,8,9
60059	1	USED 1,1,1 TRICHLOROETHANE MIXTURE	D001 D008 F002	PK,MSDS,1,3,8,9
60060	1	ORGANIC SOLVENT MIXTURE FROM PLANT 8 MAINTENANCE	D001 D008 D009 F002	PK,1,3,7,8,9
60062	1	CONTAMINATED INSOLUBLE OIL	D001 D008 D009 F002	PK,1,3,7,8,9
60063	1	CONTAMINATED INSOLUBLE OIL	D006 D008 D009 D018 D019 D021 D035 D039 D040 F002	PK,1,4,7,8,9
60064	1	SOLVENT CONTAMINATED OIL FROM PLANT 2/3	D001 D008 D035 F002	PK,1,3,7,8,9
60065	1	CONTAMINATED INSOLUBLE OIL	D001 D008 D019 F002	1,2,3,4,7,8,9
60066	1	USED OIL FROM PLANT 4 MAINTENANCE SHOP	D001 D008 D019 D035 F002	PK,1,3,8,9
60067	1	USED OIL WITH 1,1,1 TRICHLOROETHANE	D008 F002	PK,1,4,7,8,9
60068	1	MACHINE AND CUTTING OILS WITH SOLVENT CONTAMINATION	D008 F002	1,4,8,9
60069	1	CONTAMINATED INSOLUBLE OIL	D008 F001	1,4,8,9
60070	1	CONTAMINATED INSOLUBLE OIL	D001 D018 D039	PK,MSDS,1,4,7,8,9
60072	3	SOLVENT CONTAMINATED WASTE OIL	D008 F002	PK,1,4,7,8,9

See final page of keys to DETERMINATION BASIS codes and DOE WASTE STREAM TYPES

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WASTE ID#	DOE TYPE	WASTE NAME	US EPA HAZARDOUS WATE#	DETERMINATION BASIS
60073	1	CONTAMINATED INSOLUBLE OIL	D006	PK,1,4,7,8,9
60074	1	WASTE FROM PLANT 6 MACHINERY	D001 D008 D009 F002	PK,1,3,7,8,9
60076	1	CONTAMINATED INSOLUBLE OIL	D001 D008 D009 F002	PK,1,3,7,8,9
60078	1	USED OIL AND SOLVENTS FROM GARAGE	D001 D006 D008 F002 F005	PK,1,3,5,8,9
60080	1	CONTAMINATED INSOLUBLE OIL FROM MAINTENANCE - GENERAL	D001 D007 D008 D019 D040 F002	PK,1,3,7,8,9
60081	1	USED OIL/SOLVENT FROM PLANT 7 MAINTENANCE	D001 D006 D008 D010 F002	PK,1,3,8,9
60083	1	CONTAMINATED INSOLUBLE OIL FROM BOILER PLANT STORAGE	D001 D008 D019 F002	1,4,7,8,9
60084	1	USED, CONTAMINATED MACHINE AND ENGINE OIL	D001 D008 D010 F002	PK,1,3,7,8,9
60085	1	WASTE OIL FROM PLANT 8 MAINTENACE	D001 D005 D006 D007 D008 D010 F002	1,3,4,7,8,9
60087	1	USED OIL CONTAMINATED WITH SOLVENTS	D001 D008 D039 F002	PK,1,3,8,9
60090	1	USED MERCO-DRI AND HYDRAULIC OIL	D001 D039	PK,1,3,4,8,9
60096	1	FUELS, OILS, SOLVENTS FROM BUILDING 31 GARAGE	D001 D008 D009 D018 F002	PK,MSDS,1,3,7,8,9
60099	8	RAGS, SCREEN, PLASTIC AND PAPER	D008	PK,1,2,3,4,6,9
60100	8	CONTAMINATED BURNABLE TRASH	D039 U210	PK,MSDS,5
60105	6	CONTAMINATED BURNABLE TRASH	D006 D007	PK,4,6,9
60107	8	ASBESTOS ABATEMENT DEBRIS	D008	PK
60110	3	OILY SLUDGES FROM PLANT 5 METAL REDUCTION	D001	PK,1,3,7,8,9
60112	3	DRY RESIDUE FROM PLANT 5 CASTING AREA	D039	PK,1,4,9
60113	1	DARK GREEN OILY LIQUID FROM WASTE MANAGMENT-GENERAL	D007	1,3,7,8,9
60115	3	SUMP SLUDGES FROM GARAGE (NON-WWTS)	D001 F002	PK,1,4,5,7,8,9
60116	1	USED OIL WASTE DESTINED FOR INCINERATION AT OIL BURNER	D001 D007 D008 D018 D019 D039 D040	PK,1,2,3,4,7,8,9
60119	3	SLUDGES, OILY, FOR OXIDATION HIGH FREE METAL	D001 F001 F002	PK,1,2,4,7,8,9
60123	3	SOLVENT SEMISOLID	D039 F002	PK,1,2,4,5,6,7,8,9
60124	3	PAINT THINNERS AND PAINT RESIDUES	D009 D018 D035	PK,MSDS,1,4,9
60140	4	STEEL SHOT	D010	PK,MSDS,1,4,9
60152	4	U3O8 ROTEXED PLANT 8 FURNACE PRODUCT	F002	PK,1,4,9
60160	4	IMPURE UNH	D001	PK,MSDS
60193	2	PURE UNH SOLUTION	D001 D002	PK,MSDS
60306	4	HARDENED SALT BATH SLUDGE FROM RMI	D005	PK
60307	4	FURNACE SALT, SOLIDIFIED, CHLORIDE (PLANT 8 RECOVERY)	D005 D008	PK
60331	1	WATER\GAS MIXTURE TANK #9	D001 D018	1,4,7,8,9
60342	2	CONTAMINATED RAINWATER FROM UST # 5	D008 F002	PK
60450	4	CRUCIBLE COATING POWERS	D007	PK,MSDS

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See final page of keys to DETERMINATION BASIS codes and DOE WASTE STREAM TYPES

7057

Key to "Determination Basis" Codes :

PK	Process Knowledge
MSDS	Material Safety Data Sheet

ANALYSES:

1. Total Volatile Organic
2. TCLP Volatile Organic
3. Total (TC) Metals
4. TCLP Metals
5. Visual Inspection of Waste
6. Paint Filter Liquids Test (PFLT)
7. pH
8. Flash Point
9. U-Total, % U235
10. PCBs
11. Total Semivolatile Organic
12. Total Pesticides
13. Total Thorium

Key to "DOE Waste Stream Types" :

1. Organic Liquids
2. Aqueous Liquids
3. Organic Sludges/particulates
4. Inorganic Sludges/particulates
5. Cemented Solids
6. Organic Debris
7. Inorganic Debris
8. Heterogeneous Debris
9. Soil with Organics
10. Soil with Inorganics
11. Soil with Organics and Inorganics
12. Labpacks with Organics
13. Labpacks without Organics
14. Reactive Metals
15. Explosives
16. Compressed Gases
17. Liquid Mercury
18. Elemental Lead
19. Beryllium Dust
20. Batteries
99. Other

000079

OHIO ENVIRONMENTAL PROTECTION AGENCY
DIRECTOR'S FINDINGS AND ORDERS AND SECTION IV CONSENT DECREE
QUARTERLY TECHNICAL PROGRESS REPORT

April 1, 1995 - June 30, 1995

TABLE C-4

SUMMARY OF CHANGES MADE TO THE RCRA REGULATED HAZARDOUS WASTE STREAMS TABLE

TABLE C-4 QUARTERLY CHANGE REPORT

6/30/95

RCRA REGULATED HAZARDOUS WASTE STREAMS

WASTE ID#	CHANGE	DATA FOR QUARTER ENDING MARCH 31, 1995	DATA FOR QUARTER ENDING JUNE 30, 1995
376	DELETION FROM TABLE C-4	OILY RAGS, ABSORBENT PADS	
412	EPA CODES	D001 D006 F001 F002	D001 D006 F002
435	DELETION FROM TABLE C-4	PAINT HYPALON COATING	
436	DELETION FROM TABLE C-4	SEALANT POLYCHLOROPENE SOLUTION	
486	DELETION FROM TABLE C-4	TETRACHLOROETHYLENE SPILL CLEANUP	
526	DELETION FROM TABLE C-4	CONTAMINATED SOIL FROM PIT 5 HWMU AREA	
742	WASTE NAME	OILY SLUDGE	OILY SLUDGE FROM FLOOR DRAIN
1536	DELETION FROM TABLE C-4	RAINWATER FROM WASTE PIT AREA	
1537	DELETION FROM TABLE C-4	FILTER MATERIAL - SAND, GRAVEL, FLYASH	
1620	DELETION FROM TABLE C-4	VEGITATION FROM THE ETF CLOSURE	
1949	DOE TYPE	1	4
2362	EPA CODES	D002 D007 D008 D018 D035 D039 D040	D002 D007 D008 D018 D019 D021 D022 D028 D029 D035 D039 D040 D043
2633	ADDITION TO TABLE C-4		PETROLEUM CONTAMINATED SOIL FROM THE POND AREA OF THE FTF
2636	WASTE NAME	LIQUID IGNITABLES & COMBUSTABLES	IGNITABLE PROJECT CONTACT MATERIAL
2684	ADDITION TO TABLE C-4		ACID (WET) WASTE
2685	ADDITION TO TABLE C-4		WASTE PYRIDINE AND WATER
2687	ADDITION TO TABLE C-4		ACID (EXT) WASTE WITH LEAD
2691	ADDITION TO TABLE C-4		MISCELLANEOUS TRASH CONTAMINATED WITH TETRACHLOROETHYLEN
2694	ADDITION TO TABLE C-4		TCLP EXTRACT
2695	ADDITION TO TABLE C-4		FLAMMABLE ORGANIC EXTRACTS
30053	EPA CODES	D006 D007 D008 D018 D040 F002 F005	D006 D007 D008
30174	WASTE NAME	CONTAMINATED NON-BURNABLES	OIL-STAINED RAGS,TRASH,WIRE
30174	EPA CODES	D004 D008 D011 F005	D004 D008 D011
40137	EPA CODES	D001	D001 D003 D003
50407	DELETION FROM TABLE C-4	NON-RECOVERABLE TRASH	
60053	ADDITION TO TABLE C-4		GASOLINE REMOVED FROM GARAGE UST
60063	ADDITION TO TABLE C-4		CONTAMINATED INSOLUBLE OIL
60096	ADDITION TO TABLE C-4		FUELS, OILS, SOLVENTS FROM BUILDING 31 GARAGE

000081

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See final page of keys to DETERMINATION BASIS codes and DOE WASTE STREAM TYPES

Key to "Determination Basis" Codes :

PK	Process Knowledge
MSDS	Material Safety Data Sheet

ANALYSES:

1. Total Volatile Organic
2. TCLP Volatile Organic
3. Total (TC) Metals
4. TCLP Metals
5. Visual Inspection of Waste
6. Paint Filter Liquids Test (PFLT)
7. pH
8. Flash Point
9. U-Total, % U235
10. PCBs
11. Total Semivolatile Organic
12. Total Pesticides
13. Total Thorium

Key to "DOE Waste Stream Types" :

1. Organic Liquids
2. Aqueous Liquids
3. Organic Sludges/particulates
4. Inorganic Sludges/particulates
5. Cemented Solids
6. Organic Debris
7. Inorganic Debris
8. Heterogeneous Debris
9. Soil with Organics
10. Soil with Inorganics
11. Soil with Organics and Inorganics
12. Labpacks with Organics
13. Labpacks without Organics
14. Reactive Metals
15. Explosives
16. Compressed Gases
17. Liquid Mercury
18. Elemental Lead
19. Beryllium Dust
20. Batteries
99. Other

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OHIO ENVIRONMENTAL PROTECTION AGENCY
DIRECTOR'S FINDINGS AND ORDERS AND SECTION IV CONSENT DECREE
QUARTERLY TECHNICAL PROGRESS REPORT

April 1, 1995 - June 30, 1995

BORING LOGS

FEMP LITHOLOGIC LOG

CONTROL NO:

Page 1 of 2

PROJECT NAME:	PHASE III Geotechnical Investigation
PROJECT NUMBER:	20.03.08
BORING NUMBER:	G2-121
COORDINATES:	
RELATED FAL NOs.:	
SURFACE ELEVATION:	
GROUNDWATER LEVEL:	13.4 bls
DATE:	4/27/95
TIME:	1557
DATE STARTED:	4/27/95
GEOLOGIST:	J. Erjavec
GROUNDWATER LEVEL: (2)	1.5 bls
DATE:	5/1/95
TIME:	0740
DATE COMPLETED:	~~4/27/95~~ 5/1/95 JE
WATER USED DURING DRILLING:	
DRILLING CONTRACTOR:	Alliance Env., Inc
DRILLING EQUIPMENT:	Mobile Drill B-61 HSA
DRILLER/HELPER:	B. Erickson / B. Babcock

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
1							Augered to 2.5' from cuttings
2							(2.5-4.5' ST 2 13/16" ID
3	1358 4/27/95		15"	light olive gr ~~Yellowish~~ brown clay with sand (fg-mg, angular) with organic material (black), clay-mod plasticity moist (2.5Y 5/6) Iron staining	CL		Push 24" max 300 psi (1)
4	404808						404808 = ARCHIVE from end of ST
5							Augered
6	14:13 4/27/95 404810	-2 -5 -6	11.5"	light olive brown clay (2.5Y, 5/4) trace sand of gravel (subangular-rounded), clay-mod plasticity, moist, Gravel ~1/8" or less (fine) Iron staining, med. stiff JE	CL	1.0	SS-2" OD 5-6.5' JE
7							Augered
8	14:30 4/27/95		JE 5"	med-coarse dark brown sand with gravel (up to 2" angular, granitic-metamorphic). ~~Clay~~ Sand-dirty, ~~poorly~~ graded, large # of white minerals-black	CL SP JE SW		7.5-9.5 ST push 24" 250/800/300 psi max last 6"
9	404811 Archived sample			above Clay, light olive brown (2.5Y 5/6) wet, low plasticity			Tube crushed - stiff recovery ~~Tube not~~ ~~filled~~
10	14:43 4/27/95 404812		JE 18"	clay, light olive brown (2.5Y 5/3) mottled with grayish gray clay (10Y 6/1), low plasticity, moist, trace organics (reddish-black)	CL		push 18" 300/450/800 1-6" 2-6" 1-2"
11.7							ST 10-11.7 (Tube wet)
							404813 Archived
	15:03 4/27/95 404814		21"	clay, greenish gray (10Y, 5/1) moist, low plasticity, with gravel (subrounded-subangular, .5-1"), trace sand (fg to vfg) gray.	CL		Push 18" 300/800 1-12" last 6"
							ST 12.5-14.5 404814 Archived
15							Augered
	15:18 4/27/95 404816	-5 -20 -21	18"	silty clay, greenish gray (10Y, 5/1) moist, low plastic, with sand, gray, vfg-fg. Sand interbedded in clay. Trace gravel. hard (1)	CL		SS - 15-16.5'
							Augered
	15:35 4/27/95 404817		19"	silty clay, dark greenish gray (10Y, 4/1) with sand - trace ~~sand~~ JE gravel (fine). Low plasticity. v. hard.	CL		18" push 450 psi max 404818 - Archived ST 17.5-19.5 Tube wet
20							

INSTRUMENT	BACKGROUND	DATE	TIME
PID			
ALPHA			
BETA/GAMMA			

NOTES: HSA = Hollow Stem Auger
G2-121 loc. approx. 1.5' W of CPT-304
(1) Recorded samples from top of ST
bls = below land surface
(2) Level rise may be partially due to reinundation
measured of 4/29-4/30

*SAMPLES COLLECTED PER ASTM STANDARD PENETRATION TEST.

*ILLUS\MISC\GEOTECH\UTHO LOG.EPS

205

FEMP
LITHOLOGIC LOG

PROJECT NAME: PHASE III Geotech. Investig.

PROJECT NUMBER: 20.63.08

BORING NUMBER: 62-121

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
20	15:45 4/27/95 404819	-12 -14 -15	1"	sandy clay, greenish gray (10Y, 5/1) with gravel, moist-wet, mod-plasticity, v. stiff (3)	CL		SS 20-21.5' . Sample wet
22				Bottom of boring = 22.5' KE			

NOTES: (3) consistency based on SPT blow-count, otherwise consistency assigned based on pocket penetrometer reading. KE

ILLUSIMESC\GEOTECH\LITHO LOG-PG 2.EPS

4/95

000085

G2-121

7057

FEMP

WELL COMPLETION LOG

WELL NUMBER: 11697

CONTROL NUMBER:

PROJECT NAME: CRHZ PHASE II DISPOSAL FACILITY GEOTECHNICAL FIELD INVESTIGATION

PROJECT NUMBER: 20.03.08

GEOLOGIST: CLIFF LEE

DRILLING METHOD: AUGER

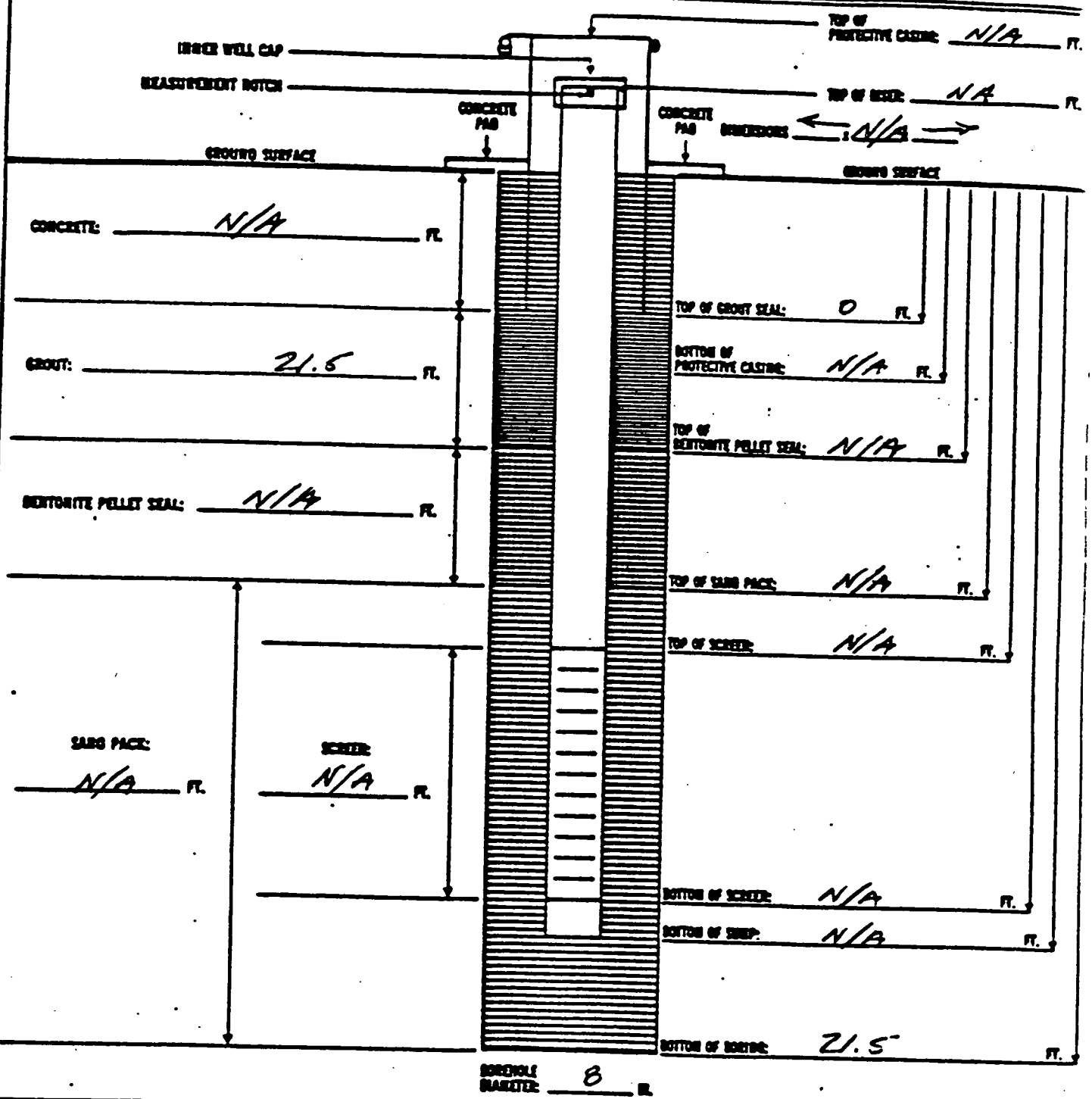
DATES OF INSTALLATION: 4/27 - 5/1/95

WATER LEVEL (ft): 13.4' BGL / 1.5' BGL

DATE: 4/27/95 / 5/1/95

RELATED PAL NUMBERS: N/A

CHECKED BY:



TYPE AND AMOUNT OF GROUT USED: TYPE E-I-K EXPANSIVE CMT. 6 - 94 lb. BAGS	BENTONITE PELLETS (5-GALLON BUCKETS): N/A	DEEPEST TEMPORARY DRILLING CASING PENETRATION: N/A FT.
VOLUME OF WATER USED DURING DRILLING: N/A GAL	RISER MATERIAL: N/A	VOLUME OF WATER USED FOR GROUT HYDRATION: 30 GAL

RISER WALL THICKNESS: N/A	TYPE OF SAND PACK: N/A	SCREEN MATERIAL: N/A	DRILLING CASING DIAMETER: N/A IN.
RISER/SCREEN DIAMETER: N/A IN.	SCREEN SLOT SIZE: N/A IN	SCREEN TYPE: N/A	DEPTH OF CENTRALIZERS: N/A FT.

000086

ES-4-1644 (9/10/93)

FEMP
LITHOLOGIC LOG

CONTROL NO:

PROJECT NAME: Phase III Geotechnical Investigation			PROJECT NUMBER: 20.03.08
BORING NUMBER: 62-122	COORDINATES:	RELATED FAL NOs.:	
SURFACE ELEVATION:	GROUNDWATER LEVEL: DRY	DATE: 5/1/95	TIME: 13:45	DATE STARTED: 5/1/95
GEOLOGIST: J. Eriavec	GROUNDWATER LEVEL:	DATE:	TIME:	DATE COMPLETED: 5/1/95
WATER USED DURING DRILLING: None	DRILLING CONTRACTOR: Alliance Env. Inc.	DRILLING EQUIPMENT: Mobile Drill B-61 HSA	DRILLER/HELPER: B. Erickson / B. Belcak

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
1, 2							Augered to 2.5' 12:36 brown cuttings = clay
2.5, 3	12:39 5/1/95 404820	-3 -8 -12	1.1' (13")	clay, dark yellowish brown (10YR 4/4) with organics (reddish brown), trace iron staining, trace silt, moist, low plasticity ~~clay soil by soil~~ & very stiff	CL	2.5	SS-2" OD 2.5-4' 120 BPM
4.0, 4, 5.0, 5							Augered
5, 6, 7.0, 7	12:50 5/1/95 404821		24"	clay, light olive brown (2.5Y, 5/4), low plasticity, moist, mottled with yellowish brown clay, trace gravel, trace organics.	CL		ST 2 1/16" ID 5.0-7.0' ① Push 24" 300/400/625 psi 1.5' 404822 (archived)
7.5, 8, 9.0, 9	13:02 5/1/95 404823	-9 -14 -20	19"	clay, light olive brown (2.5Y, 5/4), low plasticity, moist, with gravel to 1" diameter, subrounded to subangular, with organics, trace iron staining. Gravel - mostly in native clay, resistant to hand	CL	4.0	Augered SS 7.5-9'
10.0, 10							Augered
12.0	13:09 5/1/95 404824		22"	clay, light olive brown (2.5Y, 5/4) low plast., moist, with gravel to 1" diam. (subangular to subrounded - granitic). Trace organics.	CL		ST 2 10.0-12.0' Push 24" 425/1100 psi 1-12 (10" left) 404825 (archived)
12.5							Augered
14.0	13:19 5/1/95 404826	-9 -14 -20	20"	clay, light olive brown (2.5Y, 5/4), low plastic moist, homogeneous appearance, trace gravel, trace sand, trace iron staining, trace organics, clay-hard	CL	7.45	SS 12.5-14.0'
15.0, 15							Augered
17.0	13:30 5/1/95 404827		24"	clay, (top sample in brown clay, bottom in gray clay), greenish gray (10Y, 5/1), med. plasticity, moist, trace to some gravel to 1/2" diam. with some silt (greenish gray)	CL		ST 15.0-17.0' 300 psi / 550 max last 6" 404828 - arch. push 24"
17.5							Augered
19.0	13:40 5/1/95 404829	-5 -8 -11	16"	clay, greenish gray (10Y, 5/1), med. plastic, moist, trace to some gravel (subangular/subrounded, includes reworked fossil debris from Ordovician. Trace organics - wood or root material, well preserved, some silt, gray (greenish). Fossil it - bryozoan clay - stiff	CL	2.0	SS 17.5'-19.0'
20							

INSTRUMENT	BACKGROUND	DATE	TIME
PID			
ALPHA			
BETA/GAMMA			

NOTES: HSA = Hollow Stem Auger
① ST samples from bottom ST 1"

*SAMPLES COLLECTED PER ASTM STANDARD PENETRATION TEST.

*ILLUS/MISC/GEOTECH/LITHO LOG.EPS

4/95

G2-122

7057

FEMP

WELL COMPLETION LOG

WELL NUMBER: 11696

CONTROL NUMBER:

PROJECT NAME: CRH2 PHASE III DISPOSAL FACILITY GEOTECHNICAL FIELD INVESTIGATION

PROJECT NUMBER: 20.03.08

GEOLOGIST: CLIFF LEE

DRILLING METHOD: AUGER

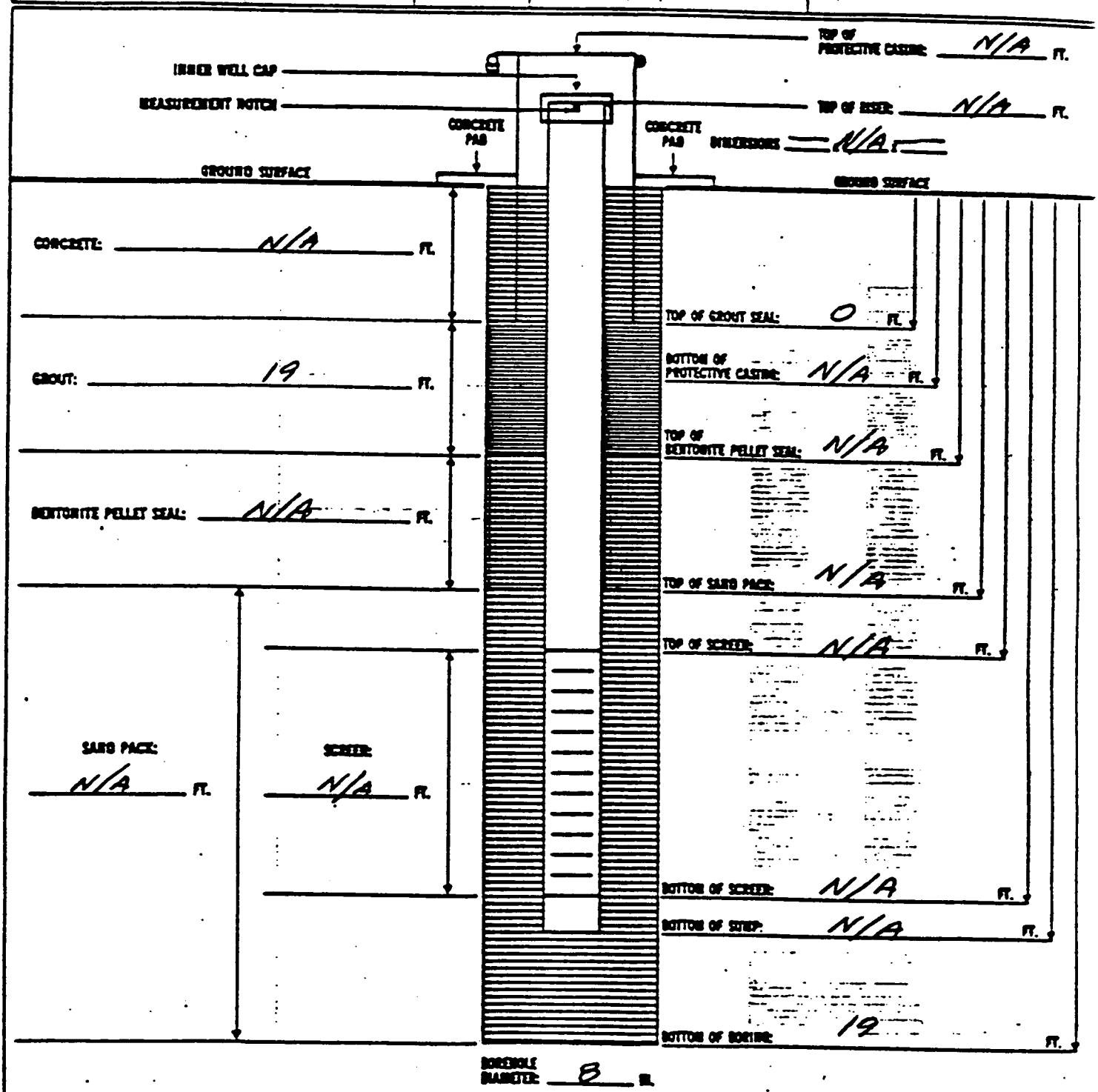
DATES OF INSTALLATION: 5/1/95

WATER LEVEL (ft): NONE

DATE: N/A

RELATED FAL NUMBERS: N/A

CHECKED BY:



TYPE AND AMOUNT OF GROUT USED: TYPE E-I-K EXPANSIVE CMT. 6 94 LB. BAGS	BENTONITE PELLETS (5-GALLON BUCKETS): N/A		DEEPEST TEMPORARY DRILLING CASING PENETRATION: N/A FT.
VOLUME OF WATER USED DURING DRILLING: NONE GAL	RISER MATERIAL: N/A		VOLUME OF WATER USED FOR GROUT HYDRATION: 30 GAL
RISER WALL THICKNESS: N/A	TYPE OF SAND PACK: N/A	SCREEN MATERIAL: N/A	DRILLING CASING DIAMETER: N/A IN.
RISER/SCREEN DIAMETER: N/A IN.	SCREEN SLOT SIZE: N/A IN	SCREEN TYPE: N/A	DEPTH OF CENTRALIZERS: N/A FT.

000088

FS-J-1664 · 9/10/931

FEMP
LITHOLOGIC LOG

CONTROL NO:	
PROJECT NAME:	Phase III Geotechnical Investigation
PROJECT NUMBER:	20.03.08
BORING NUMBER:	62-123
COORDINATES:	
RELATED FAL NOs.:	
SURFACE ELEVATION:	
GROUNDWATER LEVEL: / DATE: / TIME:	
DATE STARTED:	4-26-95
GEOLOGIST:	D. Creek
GROUNDWATER LEVEL: / DATE: / TIME:	
DATE COMPLETED:	4-26-95
WATER USED DURING DRILLING:	no water used
DRILLING CONTRACTOR:	Alliance Environmental
DRILLING EQUIPMENT:	Mobile Drill B-61 / HSA
DRILLER/HELPER:	B. Erickson / B. Babcock

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
1, 2							
3, 4	4-26-95 #404794, #404795	NA	~~1.8~~ DC 24"+	CLAY, trace Sand (fine), (2.5Y, 5/4) light olive brown, caliche, mottled, slt. iron staining, dry to moist, low to med. plasticity	CL	NA	Shelby Tube, 2' push (slat DC) 300 psi: 6" 375 psi: 18" 600 psi: last 4" wet at bottom #404795 Archive
							auger to 5'
5, 6	1424 4-26-95 #404796	5 10 13	18"	CLAY, with gravel (fine to med, subang. to ang. max. ½"), few sand (coarse), (10YR, 4/6) dark yellowish brown, moist, Fe staining, black nodules, stiff, slight mottled, low plasticity	CL	1.75	Split Spoon, 18" drive
7							auger to 7.5'
8, 9	1438 4-26-95 #404797, #404798	NA	22"	CLAY, few Sand (fine to coarse, subang to ang.), silty, (10YR, 4/6) dark yellowish brown, moist, low plasticity	CL/ML	NA	Shelby Tube, 2' push 300 psi: 1st 6" 450 psi: 2nd 3" 900-1000 max next 3" 5" bottom crimp 36" shelby tube #404798 Archive
10							auger to 10'

INSTRUMENT	BACKGROUND	DATE	TIME
PID			
ALPHA			
BETA/GAMMA			

NOTES: Shelby tubes collected per ASTM D1587

*SAMPLES COLLECTED PER ASTM STANDARD PENETRATION TEST. (ASTM D1586)

*ILLUS/MISC/GEOTECH/LITHO LOG.EPS

4/95

FEMP
LITHOLOGIC LOG

PROJECT NAME: Phase III Geotechnical Investigation
PROJECT NUMBER: 20.03.08
BORING NUMBER: G2-123

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
10							
11	1455 4-26-95 #404799	12 19 26	DC ~~15~~ 17"	CLAY, with gravel (fine to coarse, rnd to ang DC ~~3/4"~~ max), with sand (coarse, rndd to subrndd), silty, low plasticity, hard, Coarse gravel (1" max) at 10.2'-10.4', vert. fracture with Fe staining from 10.4' to ~11.2', (2.5Y, 5/4) lt olive brown, Fe stains throughout, dry to moist	CL	>30	Split spoon, 1.5' drive 2" od
12				* interface - assumed 13' *			auger to 12.5'
13	1515 4-26-95 #404800	NA	22"	CLAY, few Sand (fine to ~~med~~ coarse, subrndd DC), (10Y, 4/1) dark greenish gray, low to med plasticity, stf. silty, fractures (dessicated) w/ iron staining, dry to moist	CL	NA	Shelby Tube, 2' push 300 psi: 12" 850 psi max
14	#404801			classified at bottom of tube			top of sample - brn clay bottom - gray clay #404801 Archive
15							auger to 15'
16	1530 4-26-95 #404802	8 11 15	15"	CLAY, trace Sand (med., ang), few gravel (fine to coarse, subang. to ang), (5GY, 4/1) dark greenish gray, fossiliferous gravel at 15.5', moist, med. plasticity, very stiff	CL	2.5	Split spoon, 18" drive
17							auger to 17.5'
18	1545 4-26-95 #404803,	NA	13"	CLAY, few Sand (fine to med), (5GY, 4/1) dark greenish gray, moist, low plasticity to medium DC (Sandy and wet at bottom of tube). (very poor recovery - discard tube)	CL	NA	Shelby Tube, 2' push 300 psi: first 12" 900 psi: max. 8" crimp, v. poor tube
19	~~#404804~~ DC						#404803 Archive
20							auger to 20'
21	1615 4-26-95 #404804 #404805	NA	11"	CLAY, few Sand (fine to med), (10Y, 4/1) dark greenish gray, moist, low plasticity	CL	NA	Shelby Tube 2' push crimp on bottom 1" wet tube #404805 Archive
21.2				stage-triaxial			
21.5							auger to 21.5'
DC ~~22~~	DC			Skip to next page			DC
DC ~~22.5~~							

NOTES:

FEMP
LITHOLOGIC LOG

PROJECT NAME:	PROJECT NUMBER:	BORING NUMBER:
Phase III Geotechnical Investigation	20.03.08	62-123

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
21.5							
22	1635 4-26-95 #404806	16 19 30	11"	CLAY, trace gravel (fine to coarse, subang.), few sand (med to coarse, rndd to subrndd), (10Y, 4/1) dark greenish gray, moist to wet, med. plasticity, hard	CL	NM	Split spoon, 18" drive - not measured clayey sand (wet) on outside barrel wet on inside, possibly from water in hole
23							auger to 23.5'
24	1648 4-26-95 #404807	5 21 21	7"	CLAY, trace gravel (fine to med., subrndd), few sand (med. to coarse, subang. to ang.), (10Y, 4/1) dark greenish gray, moist, med. plasticity, very stiff	CL	>3.0	Split spoon, 18" drive wet clayey sand on outside
25				Total Depth 25'			

NOTES:

GZ-123

7057

FEMP

WELL COMPLETION LOG

WELL NUMBER: 11693

CONTROL NUMBER:

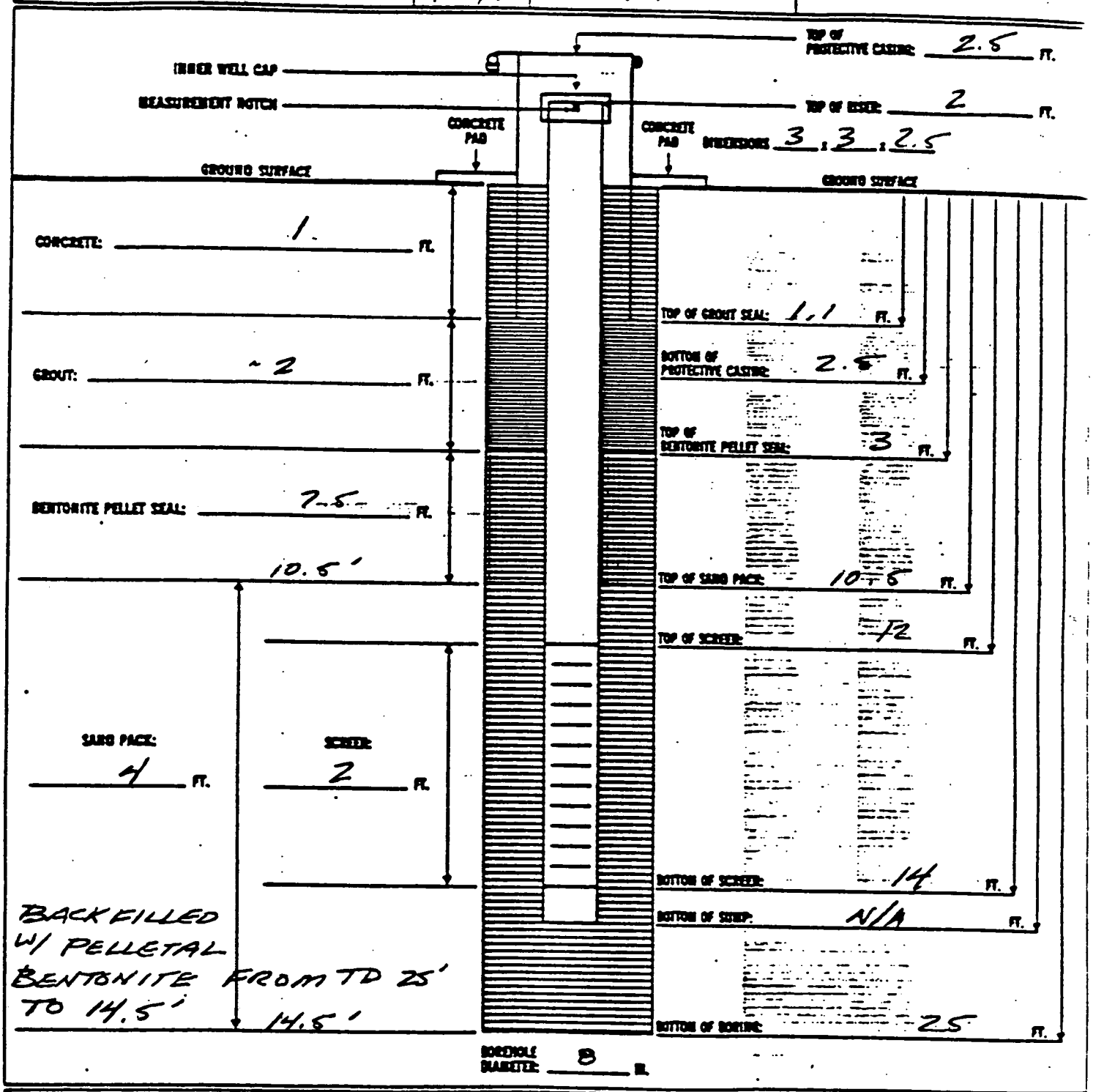
PROJECT NAME: CRU2 PHASE III DISPOSAL FACILITY GEOTECHNICAL FIELD INVESTIGATION

PROJECT NUMBER: 20.03.08

GEOLOGIST: CLIFF LEE

DRILLING METHOD: AUGER

DATES OF INSTALLATION:	WATER LEVEL (ft):	DATE:	RELATED FAL NUMBERS:	CHECKED BY:
4/26-27/95	4.3' BGL	4/27/95	N/A	



TYPE AND AMOUNT OF GROUT USED:	BENTONITE PELLETS (5-GALLON BUCKETS):	DEEPEST TEMPORARY DRILLING CASING PENETRATION:
BENTONITE FLOUR 1.4 LB.	6 1/2 BUCKETS	N/A FT.
VOLUME OF WATER USED DURING DRILLING:	**RISER MATERIAL:**	**VOLUME OF WATER USED FOR GROUT HYDRATION:**
NONE USED - FM. WATER AFTER DRLG. GAL	3/16" STAINLESS STEEL	3 GAL

RISER WALL THICKNESS:	TYPE OF SAND PACK:	SCREEN MATERIAL:	DRILLING CASING DIAMETER:
3/16"	#5	3/16" STAINLESS STEEL	N/A IN.
RISER/SCREEN DIAMETER:	**SCREEN SLOT SIZE:**	**SCREEN TYPE:**	**DEPTH OF CENTRALIZER:**
2 IN.	10-SLOT / IN	3/16" STAINLESS STEEL	N/A FT.

1000092

FS-F-1004 (9/10/93)

FEMP LITHOLOGIC LOG

CONTROL NO:

PROJECT NAME: Phase III Geotechnical Investigation				PROJECT NUMBER: 20.03.08
BORING NUMBER: G2-126	COORDINATES:	RELATED FAL NOs.:		
SURFACE ELEVATION:	GROUNDWATER LEVEL: 2.75' bgs (see note below)*	DATE: 4-25-95	TIME: 0826	DATE STARTED: 4-24-95
GEOLOGIST: D. Creek	GROUNDWATER LEVEL:	DATE:	TIME:	DATE COMPLETED: 4-25-95
WATER USED DURING DRILLING: no water used	DRILLING CONTRACTOR: Alliance Environmental	DRILLING EQUIPMENT: MobileDrill B-61 / HSA	DRILLER/HELPER: B. Erickson / B. Babcock	

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
1, 2							auger to 2.5'
3, 4	1138 4-24-95 #404765, #404766	NA	27"	CLAY, few Sand (fine to coarse, ang.) (2.5Y, 5/4) lt olive brown, mottled, some Fe staining, low plasticity, dry to moist,	CL	NA	Shelby Tube 2' push 250 psi: first 18" 400 psi: last 6" slt. crimping #404766 Archive
5							auger to 5'
6	1150 4-24-95 #404767	4 9 14	15"	CLAY, sandy (fine to coarse, ang), few gravel (fine, angular, to 3/4"), (2.5Y, 5/6) lt. olive brn, mottled, low to med. plasticity, moist to wet, med. stiff (unsc of silty CLAY, fatter CLAY)	CL	1.0	Split spoon 1.5' drive 2" od
7							auger to 7.5'
8, 9	1310 4-24-95 #404768, #404769	NA	16"	CLAY, few sand (fine to coarse, ang), trace gravel (fine, 1/2", ang.), (2.5Y, 5/6) lt. olive brown, Fe stains, black nodules, moist to wet, med. plasticity, wet on outside of tube	CL	NA	Shelby Tube, 18" push 300 psi: first 6" 450 psi: next 6" 850 psi last 6" Crimped #404769 Archive
	DC						DC auger to 10'

INSTRUMENT	BACKGROUND	DATE	TIME
PID			
ALPHA			
BETA/GAMMA			

NOTES:
* High groundwater level likely due to inflow from surface water overnight.
Shelby tubes collected per ASTM D1587

*SAMPLES COLLECTED PER ASTM STANDARD PENETRATION TEST. (ASTM D1586)

*ILLUS/MISC/GEOTECH/LITHO LOG.EPS

4/95

FEMP
LITHOLOGIC LOG

PROJECT NAME:	PROJECT NUMBER:	BORING NUMBER:
Phase III Geotechnical Investigation	20.03.08	G2-126

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
10							
4	1323 4-24-95 #404770	14 19 18	18"	CLAY, sandy (fine to coarse, subang to rndd) (2.5Y, 5/4) lt. olive brn, extreme Fe staining (vert & horiz fractures) black nodules, moist, very stiff, low plasticity	CL	>30	Split spoon, 18" drive brn -> grey @ 10.7'
				CLAY, few sand (fine to coarse, ang), (10Y, 4/1) dark greenish grey, mottled, trace gravel (fine, rndd, 3/8") moist, extreme Fe staining near interface, v. stiff.. low to med plasticity (fossiliferous gravel)	CL		
12							auger to 12.5
13–14	1345 4-24-95 #404771, #404772	NA	23"	CLAY, few sand (fine to coarse, ang to subrounded), few gravel (fine, 3/4", subangular), (10Y, 4/1) dk greenish grey, moist, med plasticity classified at tube bottom	CL	NA	Shelby Tube, 2' push 100 psi first 6" 250 psi next 12" 400 psi last 6" minor bottom crimp #404772 Archive
15							auger to 15'
16–17	1400 4-24-95 #404773, #404774	NA	23"	CLAY, trace sand (fine to med, ang), trace gravel (fine, ang, 3/8"), (10Y, 4/1) dk greenish grey, moist, med plasticity, gravel to 1.5" classified at tube bottom	CL	NA	Shelby Tube 2' push 250 psi first 18" 450 psi last 6" Slight crimp bottom 1" #404774 Archive
17							auger to 17.5'
18–19	1415 4-24-95 #404775	10 11 15	15"	CLAY, trace sand (fine to med), trace gravel (fine, ang, 3/8"), (10Y, 4/1) dk greenish grey, moist, med. plasticity, wood stick at 18.5', stiff	CL	1.5	Split spoon, 18" drive 2" od
19–20	-						auger to 20'
21	1425 4-24-95 #404776	20 16 18	20"	CLAY, trace sand (fine to coarse, subrndd to rndd), trace gravel (fine to coarse, subangular), (10Y, 4/1) dk greenish grey, moist, med plasticity, stiff	CL	1.75	Split spoon, 18" drive 2" od
22							auger to 22.5
22.5							

NOTES:

FEMP
LITHOLOGIC LOG

PROJECT NAME: Phase III Geotechnical Investigation
PROJECT NUMBER: 20.03.08
BORING NUMBER: G2-126

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
22.5							
23	1445 4-24-95 #404777	7 14 17	16"	CLAY, trace sand (fine to coarse, ang), ~~some~~ few gravel (fine to coarse, 1.5" max, rounded to subrounded stick at 23', moist, (10Y,4/1) dk greenish gray, very stiff, black nodules	CL	2.25	Split spoon, 18" drive 2" od
24							auger to 25'
25	1505 4-24-95 #404778, #404779	NA	25"	CLAY, trace gravel (fine, rounded to subrounded) (10Y,4/1) dk greenish gray, moist to wet, med to high plasticity	CL	NA	Shelby tube, 2' push 200 psi: 18" 450 psi: 6" #404779 Archive
27							auger to 27.5'
28	1525 4-24-95 #404780	7 10 17	16"	CLAY, few gravel (fine, rounded to subrounded), ~~trace~~ few sand (fine to coarse, ang), (10Y,4/1) dk greenish gray, moist, med. plasticity, very stiff	CL	2.0	Split spoon, 18" drive
29							auger to 30'
30	1540 4-24-95 #404781	6 10 14	16"	CLAY, trace sand (fine to coarse, ang), trace gravel (fine, rndd to subrounded), (10Y,4/1) dk greenish gray, moist, med. plasticity, stiff	CL	1.75	split spoon, 18" drive
32							auger to 32.5'
33	1600 4-24-95 #404782	11 19 41	14"	CLAY, trace sand (fine to med, ang), few gravel (fine to coarse, subrndd to rndd, 1" max), (10Y,4/1) dk. greenish gray, moist, med to high plasticity, stiff	CL	1.5	Split spoon, 18" drive
34							auger to 35'
35							

NOTES:

FEMP
LITHOLOGIC LOG

PROJECT NAME: Phase III Geotechnical Investigation
PROJECT NUMBER: 20.03.08
BORING NUMBER: 62-126

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
35 36 37	1627 4-24-95 #404783 #404784	NA	22"	CLAY, trace sand (fine to coarse, ang), trace gravel (fine, subangular, ½"), (10Y, 4/1) dark greenish gray, moist, med. plasticity	CL	NA	Shelby Tube, 2' push 250 12" 300 6" 400 last 6" Slightly crimped @ bottom #404784 Archive
38 39 40							Auger to 40'
41	0850 4-25-95 #404785	15 24 50/.4	16"	SAND, (fine to med), clayey, extreme Fe staining at 41', [Clay layer 40.3'-41' (highly plastic), 1.25 tsf pocket pen (10Y, 4/1) gray clay], wet, (10Y, 4/1) dark greenish gray, ~~medium~~ dense (to 41.5')	SC	NA	Split spoon, 18" drive wet on outside of spoon
42 43 44 45							Auger to 45'
46	0937 4-25-95 #404786	34 44 41	16"	SAND, (fine to coarse, subang), few gravel (fine, rndd), (10YR, 4/6) dark yellowish brn, wet, very dense, clean	SP	NA	Split spoon 18" drive
47							Auger to 50'
				Change scale on next sheet			

NOTES:

FEMP
LITHOLOGIC LOG

PROJECT NAME: Phase III Geotechnical Investigation
PROJECT NUMBER: 20.03.08
BORING NUMBER: 62-126

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
47							
48							auger to 50'
49							
50	1017 4-25-95 #404787	40 40 40	17"	SAND, clean (fine to coarse, grading to fines downward, subang.), few gravel (fine, rndd. 3/8" max), clay stringer at 51.3', wet to moist at bottom, (10YR, 4/6) dark yellowish brn., very dense	SP/SW	NA	Split spoon 18" drive wet on outside
51.5							
							auger to 55'
55	1045 4-25-95 #404788	40 50 61	18"	SAND, clean (fine to coarse, rndd to subrndd), trace gravel (rndd, 3/8" max, fine), dry, very dense (2.5Y, 5/6) lt. olive brn	SP	NA	Split spoon, 18" drive wet on outside
56.5				Clayey Sand (55'-55.5'), (fine sand), moist, med. plasticity clay, (10YR, 4/4), dark yellowish brown, SC	SC		
							auger to 60'
60	1110 4-25-95 #404789	30, 80/6"	12"	SAND (fine to coarse, rndd to ang), with gravel (fine to med, subrounded, 3/4" max), dry, (2.5Y, 5/4) lt. olive brown,	SP	NA	Split spoon, 18" drive 12"
61.5				SAND, DC with clay DC (60-60.5'), moist, fine to med sand, (10YR, 4/6) dk yellowish brn, very dense			
							auger to 65'
65	1238 4-25-95 #404790	35 38 50/0.4'	14"	SAND (fine to coarse, rndd to ang), trace gravel (fine, rndd to subang), dry, (5Y, 6/2) light olive gray DC, very dense, clean	SW	NA	Split spoon, 1.4' drive
66.5							
							auger to 70'
70	1300 4-25-95 #404791	50/.4'	6"	GRAVEL (fine to med, rndd to subang 1/2" max), sandy (fine to coarse), slt. silty, (5Y, 6/2) light olive gray, very dense, dry	GP	NA	Split spoon, 0.5' drive
71.5							
72'							

NOTES:

FEMP
LITHOLOGIC LOG

PROJECT NAME: Phase III Geotechnical Investigation

PROJECT NUMBER: 20.03.08

BORING NUMBER: G2-126

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
72'							auger to 75'
75'	1328 4-25-95 #404792	50/.4'	7"	GRAVEL (fine to coarse, rndd to subrdd, 3/4" max), Sandy (fine to coarse, rndd to ang), clean, (5Y, 6/2) lt olive gray, very dense, dry	GP	NA	Split spoon, 0.8' drive
76.5'							
							auger to 80'
80'	1400 4-25-95 #404793	25 41 41	15"	SAND (fine to coarse, rndd to ang), gravelly (fine to med, rndd to subang, max 3/4"), clean, (5Y, 6/2) lt olive gray, very dense, dry	SW	NA	Split spoon, 18." drive
81.5'							
				Total Depth 81.5'			
85'							

NOTES:

WELL NUMBER: 11689 G2-126

FEMP
WELL COMPLETION LOG

CONTROL NUMBER:

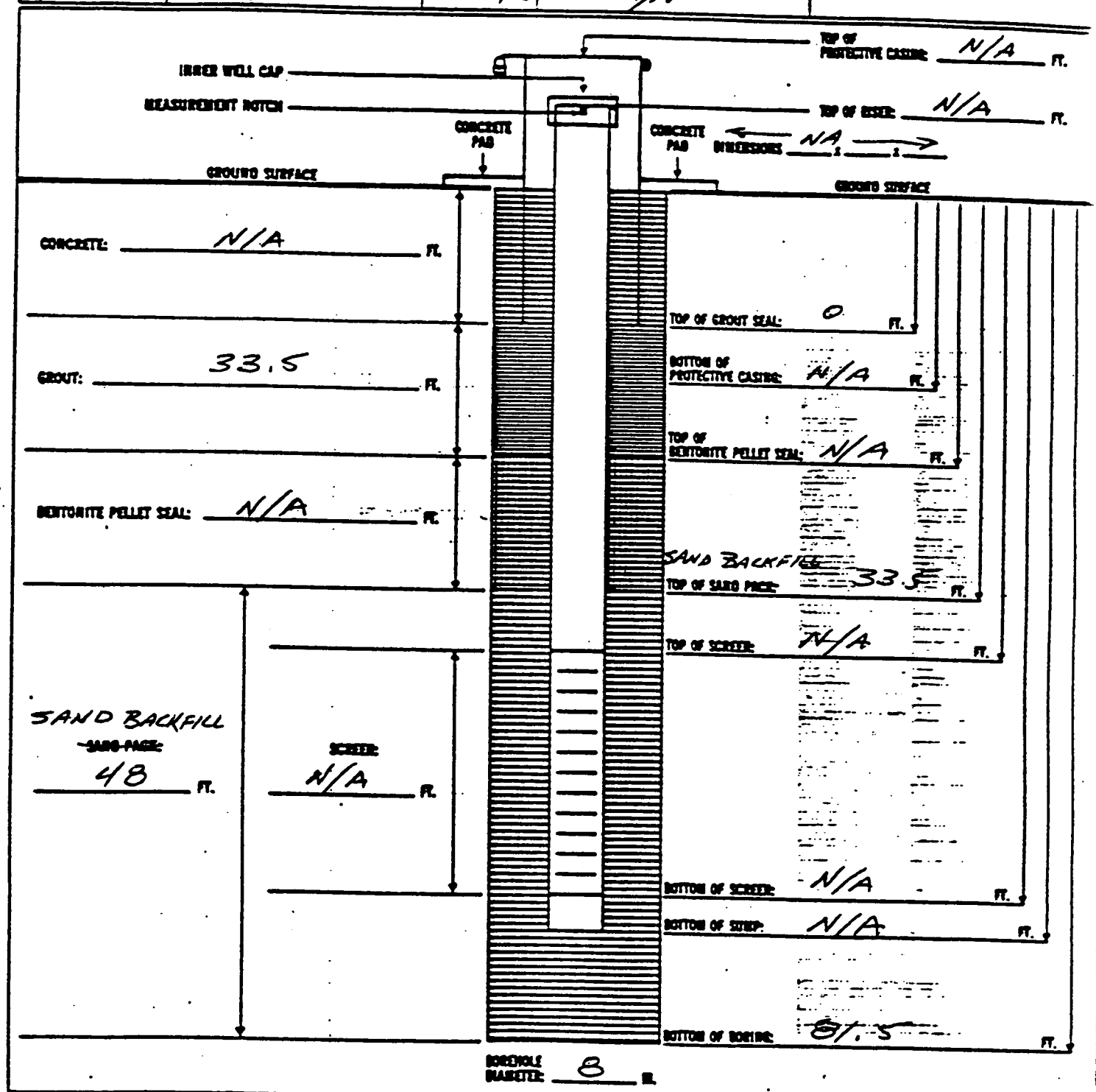
PROJECT NAME: CRU 2 PHASE II DISPOSAL FACILITY GEOTECH. FIELD INVESTIGATION

PROJECT NUMBER: 20.03.08

GEOLOGIST: CLIFF LEE

DRILLING METHOD: AUGER

DATES OF INSTALLATION:	WATER LEVEL (R.):	DATE:	RELATED FAL NUMBERS:	CHECKED BY:
4/24-26/95	2.75' BGL	4/25/95	N/A	



TYPE AND AMOUNT OF GROUT USED:	BENTONITE PELLETS (5-GALLON BUCKETS):	DEEPEST TEMPORARY DRILLING CASING PENETRATION:
TYPE E-I-K EXPANSIVE CEMENT (9 BAGS)	N/A	N/A FT.
VOLUME OF WATER USED DURING DRILLING: NONE GAL.	RISER MATERIAL: N/A	VOLUME OF WATER USED FOR GROUT HYDRATION: 45 GAL.

RISER WALL THICKNESS:	TYPE OF SAND PACK:	SCREEN MATERIAL:	DRILLING CASING DIAMETER:
N/A	BACKFILL #5 MED. SAND	N/A	N/A IN.

RISER/SCREEN DIAMETER:	SCREEN SLOT SIZE:	SCREEN TYPE:	DEPTH OF CENTRALIZER(S):
N/A IN.	N/A IN	N/A	N/A FT.

000099

ES-F-1684 (9/10/93)

FEMP LITHOLOGIC LOG

CONTROL NO:

PROJECT NAME: Phase III Geotechnical Investigation	PROJECT NUMBER: 20.03.08
BORING NUMBER: G2-127	COORDINATES: / RELATED FAL NOs.:
SURFACE ELEVATION:	GROUNDWATER LEVEL: no water / DATE: / TIME: / DATE STARTED: 4-21-95
GEOLOGIST: D. Creek	GROUNDWATER LEVEL: / DATE: / TIME: / DATE COMPLETED:
WATER USED DURING DRILLING: none	DRILLING CONTRACTOR: Alliance Environmental / DRILLING EQUIPMENT: Mobil Drill B-61 / HSA / DRILLER/HELPER: B. Erickson / B. Babcock

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
1, 2							auger to 2.5'
3, 4	1000 4/21/95 #404748	6 8 10	12"	CLAY, silty, trace sand (fine). (2.5Y, 5/6) lt. olive brown, some Fe stains, roots at ~ 3' (dk brn), moist, med. stiff to stiff, mottled, ~~low to~~ DC med plasticity	CL	1.5	Split spoon 18" drive 2" od
5							auger to 5'
6, 7	1025 4/21/95 #404749, #404750	NA	17"	CLAY, silty, ~~some~~ few DC sand (fine to med) angular, (2.5Y, 5/6) lt. olive brown, moist, mottled, low to med plasticity	CL/ML	NA	first 12" 250 psi last 12" 600-800 psi Shelby tube 24" push Crimped on bottom 6" #404750 Archive
7							auger to 7.5'
8, 9	1054 4/21/95 #404751, #404752	NA	23"	CLAY, silty, ~~some~~ few DC sand (fine to coarse, ang.), (2.5Y, 5/6) lt. olive brown, moist, low to med. plasticity, some Fe staining	CL	NA	Shelby tube 24" DC ~~24"~~ push ~~18"~~ first 12" 300-400 psi last 6" 800 psi #404752 Archive
10							auger to 10'

INSTRUMENT	BACKGROUND	DATE	TIME
PID			
ALPHA			
BETA/GAMMA			

NOTES: Shelby tubes collected per ASTM D1587

*SAMPLES COLLECTED PER ASTM STANDARD PENETRATION TEST. (ASTM D1586)

*ILLUS\MISC\GEOTECH\LITHO LOG.EPS

FEMP
LITHOLOGIC LOG

PROJECT NAME:	PROJECT NUMBER:	BORING NUMBER:
Phase III Geotechnical Investigation	20.03.08	62-127

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
10							
11	1115 4/21/95 #404753 #404754	NA	24"	CLAY, trace Sand (fine), few DC gravel (fine, 1/4"-3/4", angular), (2.5Y, 5/4) lt olive brown, moist, med. plasticity, mottled, some gray clay mottles (interface at ~12' likely)	CL	NA	Shelby tube 24" push 200 psi 6" 400 psi 12" 900 psi 6" slt. crimped at end #404754 Archive
12				* Interface @ 12.9' (brown to grey) *			auger to 12.5'
13	1135 4/21/95 #404755	9 13 16	18"	SAA to 12.9' CLAY, trace Sand (fine to coarse), few DC gravel (fine, angular, to 1/2"), (10Y, 4/1) dk greenish gray, moist, med. plasticity, some Fe staining, stiff	CL	1.75	Split spoon 18" drive 2" od
14							auger to 15'
15	1150 4/21/95 #404756 #404757	NA	23"	CLAY, trace sand (med to coarse, angular), trace gravel (fine, angular, up to 1.25"), (10Y, 4/1) dk greenish gray, moist, med. to high plasticity,	CL	NA	Shelby tube 24" push 250 psi 18" 400 psi 6" slt. crimp at bottom #404757 Archive
17							auger to 17.5'
18	1249 4/21/95 #404758	6 11 13	16"	CLAY, trace Sand (fine to coarse), few DC gravel (fine, ang., to 3/4"), (10Y, 4/1) dk greenish gray, moist, med to high plasticity, stiff	CL	1.5	Split spoon, 18" drive 2" od
19							auger to 20'
20	1300 4/21/95 #404759, #404760	NA	16"	CLAY, trace Sand (med to coarse, ang), trace gravel (fine, angular), (10Y, 4/1) dk greenish gray, moist, med. to high plasticity, some caliche nodules, slt. Fe staining	CL	NA	Shelby tube, 24" push crimped on side (bot 21") 250 psi 18" 600 psi 6" #404760 Archive
22							auger to 22.5'

NOTES:

FEMP
LITHOLOGIC LOG

PROJECT NAME: Phase III Geotechnical Investigation

PROJECT NUMBER: 20.03.08

BORING NUMBER:

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
22.5							
23	1323 4/21/95 #404761	10 14 18	17"	CLAY, trace Sand (fine to coarse, ang. to rounded), ~~some~~ few gravel (fine to coarse, ang. to subrounded, to 1" diam), (5GY, 4/1) dk greenish grey, sticks at ~23.5', stiff, moist	CL	1.5	Split spoon, 18" drive 2" od
24							
25							auger to 25'
26	1335 4/21/95 #404762	5 10 11	15"	CLAY, trace Sand (fine to coarse, ang. to rounded), trace gravel (fine, ang to subang; 0.5" max), (10Y, 4/1) dk. greenish gray, moist, stiff	CL	1.5	Split spoon, 18" drive 2" od
27							auger to 28'
28							
29	1418 4/21/95 #404763, #404764	NA	21"	SAND (fine to coarse, ang to rounded), few gravel (fine, to ½ inch, subang), clayey, pockets of CLAY (sandy), (10Y, 4/1) dk greenish gray, moist to wet (This interval classified only @ bottom)	CL	NA	Shelby tube, 2" push 18" 250psi: 12" 800psi: 6" Slf. crimped at bottom Classified at bottom #404764 Archive
30							
31				Total Depth 30'			

NOTES:

G2-127

FEMP

WELL COMPLETION LOG

CONTROL NUMBER:

WELL NUMBER: 11688

PROJECT NUMBER: 20.03.08

PROJECT NAME: CRA2 PHASE III DISPOSAL FACILITY FIELD INVESTIGATION

DRILLING METHOD: AUGER

GEOLOGIST: CLIFF LEE

RELATED FAL NUMBERS: N/A

CHECKED BY:

DATES OF INSTALLATION: N/A

WATER LEVEL (ft): NONE OBSERVED

DATE: 4/21/95

TOP OF PROTECTIVE CASING: N/A FT.

TOP OF RISER: N/A FT.

INNER WELL CAP

MEASUREMENT NOTCH

CONCRETE PAD

DIMENSIONS: N/A

GROUND SURFACE

CONCRETE: N/A FT.

GROUT: 30 FT.

BENTONITE PELLET SEAL: N/A FT.

SAND PACK: N/A FT.

SCREEN: N/A FT.

TOP OF GROUT SEAL: 0 FT.

BOTTOM OF PROTECTIVE CASING: N/A FT.

TOP OF BENTONITE PELLET SEAL: N/A FT.

TOP OF SAND PACK: N/A FT.

TOP OF SCREEN: N/A FT.

BOTTOM OF SCREEN: N/A FT.

BOTTOM OF SUMP: N/A FT.

BOTTOM OF BORING: 30 FT.

BOREHOLE DIAMETER: 8 IN.

Boring grouted from TD to surface

TYPE AND AMOUNT OF GROUT USED: 30 CMZ TYPE E-I-K EXPANSIVE 9 BAGS	BENTONITE PELLETS (5-GALLON BUCKETS): N/A	DEEPEST TEMPORARY DRILLING CASING PENETRATION: N/A FT.	VOLUME OF WATER USED FOR GROUT HYDRATION: 45 GAL
VOLUME OF WATER USED DURING DRILLING: N/A GAL	RISER MATERIAL: N/A	SCREEN MATERIAL: N/A	DRILLING CASING DIAMETER: N/A IN.
RISER WALL THICKNESS: N/A	TYPE OF SAND PACK: N/A	SCREEN TYPE: N/A	DEPTH OF CENTRALIZER(S): N/A FT.
RISER/SCREEN DIAMETER: N/A IN.	SCREEN SLOT SIZE: N/A IN		

000103

FS-F-1004 (6/10/93)

FEMP
LITHOLOGIC LOG

CONTROL NO:

PROJECT NAME: Phase III Geotechnical Investigation				PROJECT NUMBER: 20.03.08
BORING NUMBER: G2-129	COORDINATES:	RELATED FAL NOs.:		
SURFACE ELEVATION:	GROUNDWATER LEVEL: 10'11.5" bgs	DATE: 4-19-95	TIME: 0835	DATE STARTED: 4-18-95
GEOLOGIST: D. Creek	GROUNDWATER LEVEL:	DATE:	TIME:	DATE COMPLETED: 4-19-95
WATER USED DURING DRILLING:	DRILLING CONTRACTOR: Alliance Environmental	DRILLING EQUIPMENT: Mobil Drill B-61 / HSA	DRILLER/HELPER: B. Erickson / B. Babcock	

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
1, 2							augered to 2.5'
3, 4	1234 4/18/95 #404728	4 5 7	17"	CLAY, silty, (10YR, 5/6) yellowish brown, iron staining, dk brn/organic @ 25', moist, rel. homogeneous, stiff, medium plasticity	CL	1.5	Split Spoon, 18" drive 2" od
4, 5							augered to 5'
5, 6, 7	1305 4/18/95 #404729, #404730	NA	30"	CLAY, v. silty, (10YR, 5/8), yellowish brown, iron staining at 7.5', dry to moist, low to med. plasticity, mottled	CL/ML		Shelby tube 30" push first 24" 250-300 psi last 6" 600 psi free water on outside of tube classified at bottom #404730 Archive
8, 9	1320 4/18/95 #404731	7 11 15	21"	CLAY, v. silty, (10YR, 5/6) yellowish brown, horiz. iron staining at 8' & 9', dry to moist, low to med. plasticity, very stiff, mottled	CL/ML	3.0	Split Spoon, 18" drive 2" od
10							

INSTRUMENT	BACKGROUND	DATE	TIME
PID			
ALPHA			
BETA/GAMMA			

NOTES: Shelby tubes collected per ASTM D1587

*SAMPLES COLLECTED PER ASTM STANDARD PENETRATION TEST. (ASTM D1586)

*ILLUS/MISC/GEOTECH/LITHO LOG.EPS

FEMP
LITHOLOGIC LOG

PROJECT NAME: Phase III Geotechnical Investigation
PROJECT NUMBER: 20.05.08
BORING NUMBER: 62-129

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors Identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
10 11 12	1345 4/18/95 #404732, #404733	NA	15"	CLAY, w. sand (fine to coarse, angular), gravelly (coarse, 3" cobble @ ~~12.5'~~ 11.5' DC subang.) (10YR, 5/8), brownish yellow, moist (some free water @ top of tube), low to med. plasticity see note	CL, GC		Shelby tube 30" push first 12" 400 psi last 18" 625 psi classified at bottom of tube 3" o.d. #404733 · Archive
13 14	1400 4/18/95 #404734	7, 13, 19	~~DNC~~ ~~3, 13, 16, 19~~ 15"	CLAY, sandy (med. to coarse, ang.), few gravel (fine, angular), (5GY, 3/1) dk greenish gray, moist, med to high plasticity very stiff	CL	2.5	Split spoon 18" drive 2" od free water on sampler
14 15							auger to 15'
16 17	1415 4/18/95 #404735, #404736	NA	30"	CLAY, w/sand (fine), (5GY, 3/1) dk greenish gray, moist, med. plasticity, moist to dry see note	CL		Shelby tube, 30" push, 3" od first 6" 300 psi next 18" 450 psi last 6" 400 psi tube crimped at end, sl. crushed along ~~and~~ sides DNC #404736 Archive open to 17.3'
18 19	1434 4/18/95 #404737	10, 22, 38	20"	CLAY, sandy (fine to coarse, angular). (10Y 4/1) dk greenish gray, moist, med. to high plasticity, very stiff, homogeneous	CL	4.0	split spoon, 18" drive 2" od
20 21 22	0904 4/19/95 #404738, ~~#404739~~ DNC	NA	0" (3" in shoe)	CLAY, sandy (fine to coarse, subrounded) trace ~~w/~~ gravel (and 3" cobble in shoe, (10Y, 4/1) dk greenish gray, v. moist, med to high plasticity	CL		Denison Sample using ~14 gal mud Cobble stuck in shoe, #404738 Archive

2.5

NOTES: Sample 404732 from 10'-11½' (cobble pit at ~11½', pushed down)
Sample 404735 tube damage, no structural testing or unit weight, sample tube appears to have been pushed along gravel

FEMP
LITHOLOGIC LOG

PROJECT NAME: Phase III Geotechnical Investigation

PROJECT NUMBER: 20.03.08

BORING NUMBER: 62-129

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
22.5							
23	0920 4/19/95 #404739	6 12 20	10"	CLAY, sandy (fine to coarse), few (trace) w/ gravel (fine), (10Y, 4/1) dk greenish gray, v. moist, med. plasticity, med. stiff.	CL	.75	Split spoon, 18" drive 2" od free water in tube archive
24	0955 4/19/95 #404740 (tube)	NA	24"	CLAY, w/ sand (med to coarse, angular), trace w/ gravel (fine, angular), (10Y, 4/1) dk greenish gray, v. moist, med plasticity	CL		Shelby tube, 2½" posh 250 psi 1.5' 500 psi next 6" 250 psi last 6"
25							
26	#404741						#404741 Archive
27							auger down to 30'
28							
29							
30	1015 4/19/95 #404742	8 15 19	17"	CLAY, w/ sand (fine to med), few gravel (fine to coarse, 1" max, ang.), (10Y, 4/1) dk greenish gray, moist to wet, med plasticity, slt Fe staining, med. stiff @ 30.2', 1" SC/OC zone (med to coarse sand)	CL	1.0	Split spoon, 18" drive 2" od
31							archive
32							auger to 32.5'
33	1032 4/19/95 #404743	7 9 12	17"	CLAY, few sand (fine to coarse, ang), trace gravel (fine, angular) (1/8" max), (10Y, 4/1) dk greenish gray, moist to wet, med plasticity, medium stiff	CL	0.5	Split spoon, 18" drive 2" od
34							archive
35							auger to 35'

NOTES:

FEMP
LITHOLOGIC LOG

PROJECT NAME: Phase III Geotechnical Investigation
PROJECT NUMBER: 20.03.08
BORING NUMBER: 62-129

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
36	1049 4/19/95 #404744	6 13 20	23"	CLAY, few Sand (fine to coarse ang), trace gravel (fine, ang., 1/2"), (10Y, 4/1) dark greenish gray, moist to wet, med plasticity, med. stiff SAA	CL	0.5	Split Spoon, 18" drive 2" od archive
37							Auger to 37.5'
38	1110 4/19/95 #404745	21 50 49	23"	CLAY, with sand (fine to coarse, ang), trace gravel (fine, 1/4-1/2", ang), (10Y, 4/1) dark greenish gray, moist to wet, low to med plasticity, very stiff	CL	2.0	split spoon, 18" drive 2" od Sampler hit cobble but no recovery of cobble archive #404745
39							
40	1203 4/19/95 #404746, #404747	NA	24"	CLAY, with Sand (fine to coarse, ang), trace gravel (fine 1/4", ang), (10Y, 4/1) dark greenish gray, wet, med plasticity,	CL	-	Dennison Sample, 2" thin ~70 gal water used Full recovery #404747 Archive
41							
42				Total Depth 42' bgs			
43							
44							

NOTES:

7057

WELL NUMBER: 11687 GZ-129

FEMP
WELL COMPLETION LOG

CONTROL NUMBER:

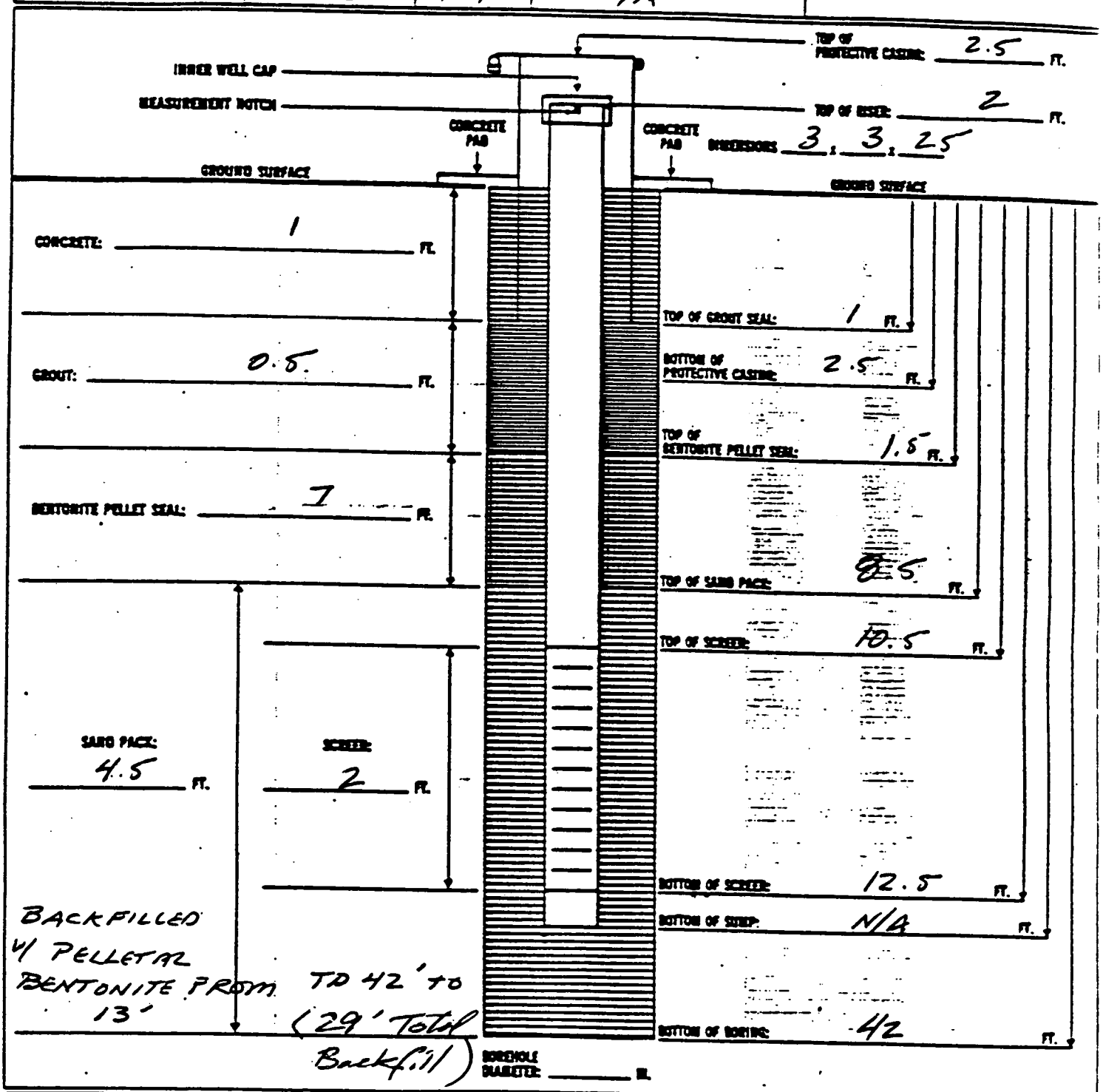
PROJECT NAME: CRUZ. PHASE III DISPOSAL FACILITY GEOTECHNICAL FIELD INVESTIGATION

PROJECT NUMBER: 20.03.08

GEOLOGIST: CLIFF LEE

DRILLING METHOD: AUGER

DATES OF INSTALLATION	WATER LEVEL (R.L)	DATE	RELATED FAL NUMBERS	CHECKED BY:
4/19/95	10' 11½"	4/19/95	N/A	



TYPE AND AMOUNT OF GROUT USED:	BENTONITE PELLETS (5-GALLON BUCKETS):	DEEPEST TEMPORARY DRILLING CASING PENETRATION:
VOLCLAY 0.25 BAGS	11.5 BUCKETS	N/A FT.
VOLUME OF WATER USED DURING DRILLING:	**RISER MATERIAL:**	**VOLUME OF WATER USED FOR GROUT HYDRATION:**
84 gal - USED W/ DENISON SAMPLER GAL	STAINLESS 3/16" STEEL	2 GAL
RISER WALL THICKNESS:	**TYPE OF SAND PACK:**	**SCREEN MATERIAL:**	**DRILLING CASING DIAMETER:**
3/16"	#5 & #7	3/16" STAINLESS STEEL	N/A IN.
RISER/SCREEN DIAMETER:	**SCREEN SLOT SIZE:**	**SCREEN TYPE:**	**DEPTH OF CENTRALIZER(S):**
2 IN.	10-SLOT / IN	3/16" STAINLESS STEEL	N/A FT.

000108

ES-6-444 3/10/93

FEMP
LITHOLOGIC LOG

CONTROL NO:

PROJECT NAME: Phase III Geotechnical Investigation			PROJECT NUMBER: 20.03.08
BORING NUMBER: G2-131	COORDINATES:	RELATED FAL NOs.:	
SURFACE ELEVATION:	GROUNDWATER LEVEL: 58.5 bls	DATE: 4/17/95	TIME: 0841	DATE STARTED: 4/12/95
GEOLOGIST: K. Ernst	GROUNDWATER LEVEL: -Dry-	DATE: 4/17/95	TIME: 1227	DATE COMPLETED: 4/17/95
WATER USED DURING DRILLING: None	DRILLING CONTRACTOR: Alliance Envir., Inc.	DRILLING EQUIPMENT: Mobile Drill B-61; HSA	DRILLER/HELPER: B. Ericksons/B. Clough/B. Babcock	

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
1.0 2.0							Augered to 2.5', cuttings - brown clay
3.0 4.0	1355, 4/12/95, #404702, #404702		23"	(10 YR 6/6) Brownish yellow silty clay with sand (sand is fine to medium), low plasticity, moist, (trace fine gravel, subangular [1/8" max] gravel)	CL		3" O.D. Shelby tube 24 inch push @ 300 psi for first 21", 400 psi for last 1" #404701 is Shelby Tube #404702 is Archive from bottom tube. Description is from bottom of Shelby Tube.
5.0							Augered to 5'
6.0	1408, 4/12/95, #404703	7-13-15	15"	Hard, (10 YR 6/6) Brownish Yellow and (2.5 Y 6/3) light yellowish brown (mottled) silty clay with sand (sand fine to med) low plasticity, trace fine subround to subangular gravel (3/8" max) dry to moist, trace iron staining trace black organic material	CL	4.5	Split Spoon 2" O.D. #404703 is archive sample
7.0							Augered to 7.5' Cuttings - brown clay
8.0 9.0	1443, 4/12/95, #404704 #404705		22"	(10 YR 5/6) yellowish brown sandy clay, few subround to subangular fine gravel (3/4" max) (sand is fine to medium), moist, low plasticity, trace red iron staining	CL		3" O.D. Shelby Tube 24" push @ 600 psi #404704 is Shelby Tube #404705 is jar archive from bottom of tube. Bottom of tube slightly crimped in at bottom 1/8" in. Description is from bottom of shelby tube
10.0							Augered to 10'

INSTRUMENT	BACKGROUND	DATE	TIME
PID			
ALPHA			
BETA/GAMMA			

NOTES: Colors described using Munsell ® soil color charts (1994 revised edition). Split-barrel sampling and standard penetration testing per ASTM D 1586. Thin-walled sampling using Shelby tube per ASTM D 1587. Consistency of fine-grained soils based on

*SAMPLES COLLECTED PER ASTM STANDARD PENETRATION TEST.

FEMP LITHOLOGIC LOG

CONTROL NO:

PROJECT NAME: Phase III Geotechnical Investigation

PROJECT NUMBER: 20.03.08

BORING NUMBER: GZ-131

COORDINATES:

RELATED FAL NOs.:

SURFACE ELEVATION:

GROUNDWATER LEVEL: DATE: TIME: DATE STARTED:

GEOLOGIST:

GROUNDWATER LEVEL: see Page 1 DATE: TIME: DATE COMPLETED:

WATER USED DURING DRILLING:

DRILLING CONTRACTOR:

DRILLING EQUIPMENT:

DRILLER/HELPER: 4/13/95 B. Erickson / B. Babcock

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
10.0	1452, 4/12/95, #404706	71-23-23	18"	Hard, (10 YR 5/4) yellowish brown sandy clay, few gravel (subrounded to subangular), fine to coarse (1 1/4" max) low plasticity, dry to moist, (Sand is fine) Bottom 2": contained 1 1/4" coarse gravel piece, clay at very bottom of spoon gray	CL	74.5	Split-Spoon 2" O.D. #404706 is archive sample
11.0							
12.0							Augered to 12.5' Color Change brown → gray D = 11.5'
13.0	1512, 4/12/95, #404707		—				Shelby Tube 3" O.D. Tube badly crushed up entire length of approx 20" 24" push @ ~1000 psi - Tube not kept - 16 oz jar. Description from bottom of tube (#404707)
14.0				(10 G 4/1) dark greenish gray sandy clay with gravel (gravel is subrounded to subangular, fine (1/2" max), low plasticity, moist (sand is fine to coarse)	CL		
15.0							Augered to 15'
16.0	1520, 4/12/95 #404708	7-15-16	15"	V. Stiff, (10 Y 4/1) dark greenish gray sandy clay, trace fine subrounded to subangular gravel (3/4" max.), low plasticity, moist (sand is fine to coarse), moist. 1/4" by 1/8" piece of wood at depth = 16'	CL	3.5	Split-Spoon 2" O.D. #404708 is archive sample
17.0							
18.0	0920 4/13/95 #404709 #404710		24"	(10 Y 4/1) Dark greenish gray sandy clay, few fine subrounded to subangular gravel (3/4" max), (Sand is fine to coarse), low plasticity, moist	CL		Denison Sample 2 13/16" liner I.D., 24" Long Description is from bottom "plug" from Denison sampler shoe #404709 is Den. Tube #404710 is jar archive
19.0							
20.0							

INSTRUMENT	BACKGROUND	DATE	TIME
PID			
ALPHA			
BETA/GAMMA			

NOTES: (Cont'd) Pocket penetrometer. Density of coarse-grained soils based on SPT blow count

bls = below land surface
D = Depth

*SAMPLES COLLECTED PER ASTM STANDARD PENETRATION TEST.

*ILLUS/MISC/GEOTECH/LITHO LOG.EPS

4/95

FEMP
LITHOLOGIC LOG

CONTROL NO:

PROJECT NAME:	Phase III Geotechnical Investigation
PROJECT NUMBER:	20.03.08
BORING NUMBER:	G2-131
COORDINATES:	
RELATED FAL NOs.:	
SURFACE ELEVATION:	
GROUNDWATER LEVEL:	
DATE:	
TIME:	
DATE STARTED:	
GEOLOGIST:	
GROUNDWATER LEVEL:	See page 2
DATE:	
TIME:	
DATE COMPLETED:	
WATER USED DURING DRILLING:	
DRILLING CONTRACTOR:	
DRILLING EQUIPMENT:	
DRILLER/HELPER:	

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
20.0	0955 4/13/95, #404711	11-10-11	16.5"	Medium stiff, (10Y 5/1) greenish gray sandy clay, trace fine ~~gravel~~ to coarse gravel (1" max) (gravel is subrounded to subangular), (sand is fine to coarse), medium plasticity, moist	CL	Q75	Split-spoon 2" OD. 1" piece of gravel at ~20.5'. #404711 is Archive Sample
21.0							
22.0							Augered to 25'
23.0							
24.0							
25.0							
	1005, 4/13/95, #404712		—	(10Y 4/1) dark greenish gray sandy clay with gravel (fine, subrounded to subangular (1/2" max.)) (Sand is fine to medium) low plasticity, moist (Description is from soil taken from bottom of tube)	CL		Shelby Tube, 3" O.D. 24" push @ 400 psi first, 600 psi next 6", 400 psi rest of push. Tube badly twisted 16" of length. Tube not kept. #404712 is Jar Archive
26.0							
27.0							Augered to 27.5'
	1255, 4/13/95, #404713, #404714		23.5" 29" pk	(10Y 4/1) dark greenish gray sandy clay with gravel (gravel fine to coarse, ~1 5/8" (max) gravel fragments at bottom of shoe), (sand is fine to coarse), low to medium plasticity, moist	CL		Denison Sample 2 13/16" Liner I.D., 24" long. Description from material taken from sampler inner barrel shoe (#404714)
28.0							
29.0							
30.0							Augered to 30'

INSTRUMENT	BACKGROUND	DATE	TIME
PID			
ALPHA			
BETA/GAMMA			

NOTES: O.D. = outer diameter
I.D. = inner diameter

*SAMPLES COLLECTED PER ASTM STANDARD PENETRATION TEST.

*ILLUS/MISC/GEOTECH/LITHO LOG.EPS

4/93

FEMP LITHOLOGIC LOG

CONTROL NO:	
PROJECT NAME:	Phase III Geotechnical Investigation
PROJECT NUMBER:	20.03.08
BORING NUMBER:	G2-131
COORDINATES:	
RELATED FAL NOs.:	
SURFACE ELEVATION:	
GROUNDWATER LEVEL:	
DATE:	
TIME:	
DATE STARTED:	
GEOLOGIST:	
GROUNDWATER LEVEL:	See Page 2
DATE:	
TIME:	
DATE COMPLETED:	
WATER USED DURING DRILLING:	
DRILLING CONTRACTOR:	
DRILLING EQUIPMENT:	
DRILLER/HELPER:	

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
30.0 – 31.0	1310, 4/13/95, #404715	4-[illegible] 8 12	18"	Medium stiff, (10Y 4/1) dark greenish gray Sandy Clay, few fine (5/8" max. subrounded to subangular gravel), sand is fine to medium, low plasticity, moist ((10Y 4/1) - dark greenish gray)		1.0	Split-spoon 2" O.D. #404715 is Temp Archive
32.0 – 35.0							Augered to 35' Drilling was slightly "gravelly" while augering
36.0 – 37.0	1350, 4/13/95, #404716, #404717	–	24"	(10Y 4/1) dark greenish gray Sandy clay, few fine (1/2" max. subrounded to subangular) gravel, sand is fine to ~~medium~~ coarse, low plasticity, moist			Denison Sample 2 13/16" liner, 24" long (liner provides 2 13/16" sample) Description is from soil material from sample shoe (#404717)
38.0 – 40.0							Augered to 40'

INSTRUMENT	BACKGROUND	DATE	TIME
PID			
ALPHA			
BETA/GAMMA			

NOTES:

*SAMPLES COLLECTED PER ASTM STANDARD PENETRATION TEST.

*ILLUS\MISC\GEOTECH\LITHO LOG.EPS

4/95

7057

FEMP
LITHOLOGIC LOG

CONTROL NO:

PROJECT NAME: Phase III Geotechnical Investigation				PROJECT NUMBER: 20.03.08
BORING NUMBER: G2-131	COORDINATES:	RELATED FAL NOs.:		
SURFACE ELEVATION:	GROUNDWATER LEVEL:	DATE:	TIME:	DATE STARTED:
GEOLOGIST:	GROUNDWATER LEVEL: Dry see	DATE:	TIME:	DATE COMPLETED:
WATER USED DURING DRILLING:	DRILLING CONTRACTOR:	DRILLING EQUIPMENT:	DRILLER/HELPER:	

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
40.0	1425, 4/13/95, #404718	7-12-13	18"	Stiff, (10Y 4/1) dark greenish gray sandy clay, trace fine subrounded to subangular gravel (1/2" max.), sand is fine to coarse, low plasticity, moist	CL	1.25	Split spoon - 2" OD. Thin 1/8" sand seam at 40.75' (fine to med)
41.0				V. stiff, dark greenish gray (10Y 4/1), A trace fine to coarse subrounded gravel (1 3/4" max), sand is fine to coarse, low plasticity, moist	CL	2.0	Thin 1/8-1/4" sand seam at 41' (fine to coarse) #404718 is Archive Sample
42.0							Augered to 45'
43.0							
44.0							
45.0	1517, 4/13/95, #404719, #404720	-	~~18"~~ 14"	(10Y 4/1) dark greenish gray sandy clay with gravel (fine subrounded to subangular, 3/4" max), sand is fine to coarse, low plasticity, moist	CL		Denison sample 2 13/16" I.D. liner. Upper 10" of sample is disturbed. Description is from material from inner sampler shoe (#404720)
46.0							
47.0							Augered to 50'
48.0							
49.0							
50.0							

INSTRUMENT	BACKGROUND	DATE	TIME
PID			
ALPHA			
BETA/GAMMA			

NOTES:

*SAMPLES COLLECTED PER ASTM STANDARD PENETRATION TEST.

ILLUSTRATOR/GEOTECH/LITHO LOG.EPS

4/93

FEMP
LITHOLOGIC LOG

CONTROL NO:	
PROJECT NAME:	Phase III Geotechnical Investigation
PROJECT NUMBER:	20.03.08
BORING NUMBER:	GZ-131
COORDINATES:	
RELATED FAL NOs.:	
SURFACE ELEVATION:	
GROUNDWATER LEVEL:	
DATE:	
TIME:	
DATE STARTED:	
GEOLOGIST:	
GROUNDWATER LEVEL:	see Page 1
DATE:	
TIME:	
DATE COMPLETED:	
WATER USED DURING DRILLING:	
DRILLING CONTRACTOR:	
DRILLING EQUIPMENT:	
DRILLER/HELPER:	

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
50.0	1546, 4/13/95, #404721	8-12-16	18"	Stiff, (10 Y 4/1) dark greenish gray sandy clay, trace fine to coarse subangular to subrounded gravel (1" max), low plasticity, moist, (sand is fine to coarse)	CL	1.25	Split spoon, 2" O.D. #404721 is archive sample ← 1" piece of gravel at 51.2
51.0							
52.0							Augered to 55'
53.0							
54.0							
55.0	1614, 4/13/95, #404722	8-11-19	22"	Stiff, (10 Y 4/1) dark greenish gray sandy clay, few fine to coarse subrounded to subangular gravel (1½" max), sand is fine to coarse, low plasticity, moist	CL	1.25	Split-spoon, 2" O.D. #404722 is Archive sample
56.0							
57.0							Augered to 60'
58.0							
59.0							
60.0							

INSTRUMENT	BACKGROUND	DATE	TIME
PID			
ALPHA			
BETA/GAMMA			

NOTES:

*SAMPLES COLLECTED PER ASTM STANDARD PENETRATION TEST.

*ILLUS\MISC\GEOTECH\LITHO LOG.EPS

7057

FEMP
LITHOLOGIC LOG

CONTROL NO:

PROJECT NAME: Phase III Geotechnical Investigation

PROJECT NUMBER: 20.03.08

BORING NUMBER: G2-131

COORDINATES: see page 1

RELATED FAL NOs.:

SURFACE ELEVATION: see page 1

GROUNDWATER LEVEL: 58.5' bls | DATE: 4/17/95 | TIME: 0841

DATE STARTED: see page 1

GEOLOGIST:

GROUNDWATER LEVEL: | DATE: | TIME:

DATE COMPLETED:

WATER USED DURING DRILLING: See page 1

DRILLING CONTRACTOR:

DRILLING EQUIPMENT:

DRILLER/HELPER: 4/17/95 E. Miller/B. Clougn

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
60.0	0922, 4-17-95, #404723	16-34-50/6"	19"	Top 2" (10 YR 4/1) dark greenish gray sandy clay, trace fine subrounded gravel (¼" max), moist, low plasticity, very dense, 10 YR 5/6 yellowish brown clayey sand, (fine sand), moist, low to no plasticity	CL / SC		Split-Spoon, 2" O.D. #404723 is jar sample of sand
61.0							
62.0							Augered to 65'
63.0							
64.0							
65.0	0957, 4-17-95, #404724	18-21-30	17"	V. dense, (10 YR 6/3) pale brown fine to medium sand, well graded, subrounded to subangular sand grains, moist, iron staining	SW		Split-Spoon 2" O.D.
66.0							
67.0							Augered to 70'
68.0							
69.0							
70.0							

INSTRUMENT	BACKGROUND	DATE	TIME
PID			
ALPHA			
BETA/GAMMA			

NOTES:

*SAMPLES COLLECTED PER ASTM STANDARD PENETRATION TEST.

*ILLUS\MISC\GEOTECH\LITHO LOG.EPS

4/95

FEMP LITHOLOGIC LOG

CONTROL NO:

PROJECT NAME: Phase III Geotechnical Investigation

PROJECT NUMBER: 20.03.08

BORING NUMBER: G2-131

COORDINATES:

RELATED FAL NOs.:

SURFACE ELEVATION:

GROUNDWATER LEVEL: DATE: TIME: DATE STARTED:

GEOLOGIST:

GROUNDWATER LEVEL: See Page 1 DATE: TIME: DATE COMPLETED:

WATER USED DURING DRILLING:

DRILLING CONTRACTOR:

DRILLING EQUIPMENT:

DRILLER/HELPER: 4/17/95 E. Miller/B. Clough

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
70.0 – 71.0	1025, 4/17/95, #404725	22-26-27	17.5"	V. dense, (10YR 6/3) pale brown fine to medium, subround to subangular sand, well graded, trace fine subangular to subround gravel (1/8 - 3/16" max.), moist, iron staining	SW		2" O.D. split spoon
72.0							Augered to 75'
73.0							
74.0							
75.0							
76.0	1058, 4/17/95 #404726	39-50/5 5/4"	14.5"	V. dense, (10YR 6/3) pale brown fine to ~~med~~ EE coarse, subrounded to subangular sand, (well graded sand) with fine to coarse gravel, subrounded to subangular (1 1/2" max), dry EE to moist	SW		2" O.D. split spoon. Drove spoon to 18" with 69 additional blows to collect sample material for lab testing
77.0							Augered to 81'
78.0							
79.0							
80.0							

INSTRUMENT	BACKGROUND	DATE	TIME
PID			
ALPHA			
BETA/GAMMA			

NOTES:

*SAMPLES COLLECTED PER ASTM STANDARD PENETRATION TEST.

*ILLUS/MISC/GEOTECH/LITHO LOG.EPS

4/95

FEMP
LITHOLOGIC LOG

CONTROL NO:

PROJECT NAME:	Phase III Geotechnical Investigation
PROJECT NUMBER:	20.03.08
BORING NUMBER:	G2-131
COORDINATES:	
RELATED FAL NOs.:	
SURFACE ELEVATION:	
GROUNDWATER LEVEL:	See Page 2
DATE:	
TIME:	
DATE STARTED:	
GEOLOGIST:	
GROUNDWATER LEVEL:	— Dry —
DATE:	4/17/95
TIME:	1227
DATE COMPLETED:	
WATER USED DURING DRILLING:	
DRILLING CONTRACTOR:	
DRILLING EQUIPMENT:	
DRILLER/HELPER:	

DEPTH (FEET)	SAMPLE TIME, DATE, AND NUMBER	BLOWS (per 6 inch)	RECOVERY (inches)	DESCRIPTION (Colors identified per Munsell Color Chart)	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
80.0							
81.0							
82.0	1222, 4/17/95, #404727	26 50/5"	13.5"	V. dense, (10YR 5/6) pale brown fine to coarse, subangular to sub-rounded sand, well graded, with fine to coarse, subrounded to subangular gravel (1" max.), dry to moist	SW		Split-Spoon, 2" O.D. - Drove ~~Fixed piston~~ sampler a total of 15" to collect sample for lab testing
				Total Depth = 82.3'			
83.0							Time: 1158 - 4/17/95 Helper: B. Babcock
84.0							
85.0							
86.0							
87.0							
88.0							
89.0							
90.0							

INSTRUMENT	BACKGROUND	DATE	TIME
PID			
ALPHA			
BETA/GAMMA			

NOTES:

*SAMPLES COLLECTED PER ASTM STANDARD PENETRATION TEST.

*ILLUS\MISC\GEOTECH\LITHO LOG.EPS

4/95

7057

FEMP

WELL COMPLETION LOG

WELL NUMBER: G2-131

CONTROL NUMBER:

PROJECT NAME: CRUZ PHASE III DISPOSAL FACILITY FIELD INVESTIGATION

PROJECT NUMBER: 20.03.08

GEOLOGIST: KEN GEIGER, CLIFF LEE

DRILLING METHOD: AUGER

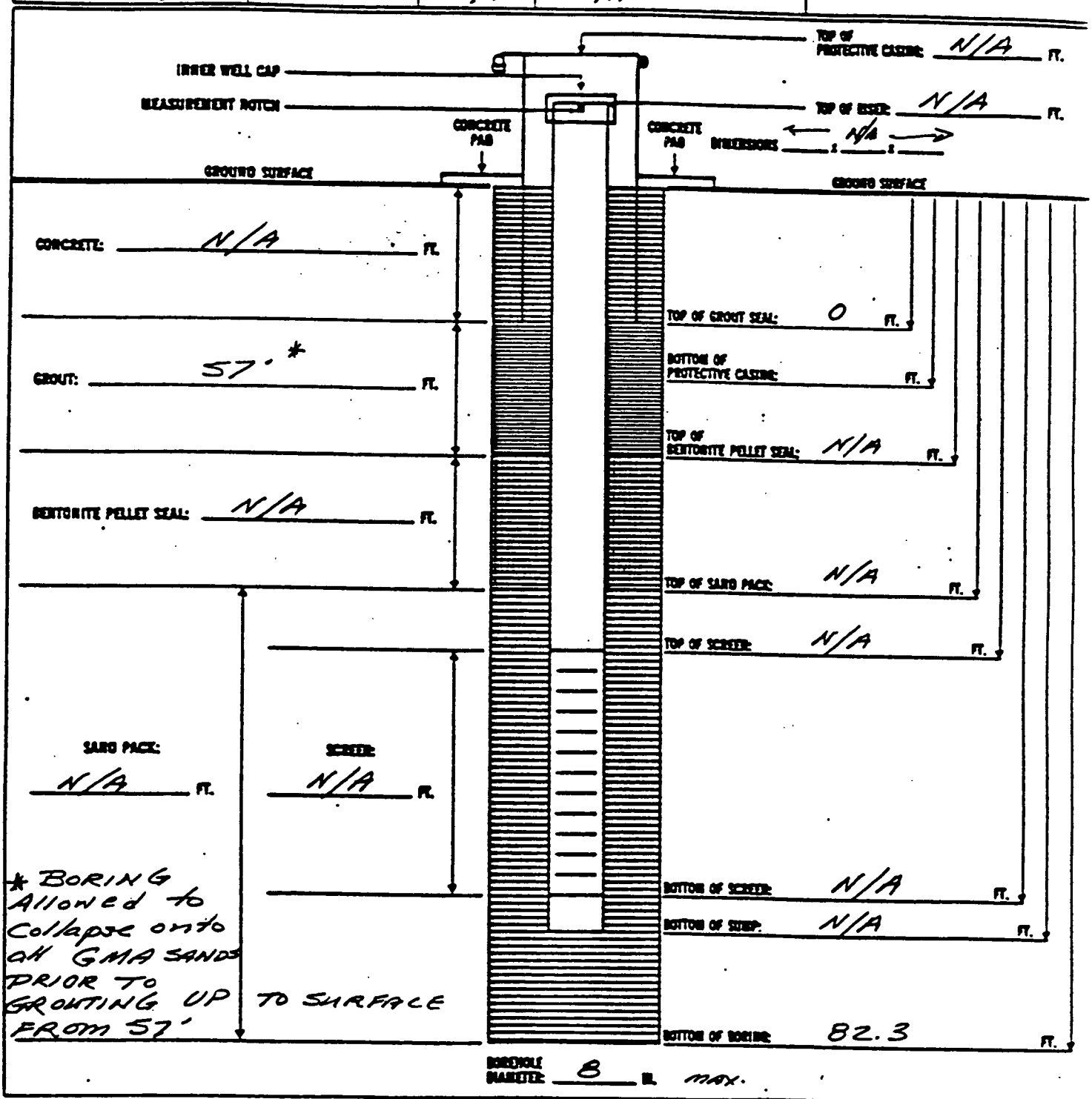
DATES OF INSTALLATION: 4/12,13,17/95

WATER LEVEL (FT): DRY

DATE: 4/17/95

RELATED FAL NUMBERS: N/A

CHECKED BY:



TYPE AND AMOUNT OF GROUT USED: TYPE E-I-K 15-94 lb. bags	BENTONITE PELLETS (5-GALLON BUCKETS): N/A	DEEPEST TEMPORARY DRILLING CASING PENETRATION: N/A FT.
VOLUME OF WATER USED ~~DURING DRILLING~~: FOR GROUTING 5 BATCHES 75 GAL	RISER MATERIAL: N/A	VOLUME OF WATER USED FOR GROUT HYDRATION: (15 GAL/BATCH) 75 GAL

RISER WALL THICKNESS: N/A	TYPE OF SAND PACK: N/A	SCREEN MATERIAL: N/A	DRILLING CASING DIAMETER: N/A IN.
RISER/SCREEN DIAMETER: N/A IN.	SCREEN SLOT SIZE: N/A IN	SCREEN TYPE: N/A	DEPTH OF CENTRALIZER(S): N/A FT.

FS-2-1664 · 9/10/931

OHIO ENVIRONMENTAL PROTECTION AGENCY
DIRECTOR'S FINDINGS AND ORDERS AND SECTION IV CONSENT DECREE
QUARTERLY TECHNICAL PROGRESS REPORT

April 1, 1995 - June 30, 1995

TABLE C-4

RCRA REGULATED HAZARDOUS WASTE STREAMS