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EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

REGION: 6 | SITE NUMBER (to be assigned by HQ): TX6009

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the form to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335), 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME: ALCOA, ANDERSON COUNTY WORKS

B. STREET (or other identifier): US 79, 7 1/2 Miles NE of Palestine

C. CITY: Palestine TXD068980267

D. STATE: TX | E. ZIP CODE: 75801 | F. COUNTY NAME: Anderson

G. SITE OPERATOR INFORMATION

1. NAME: Aluminum Company of America, P.O. Box 558
2. TELEPHONE NUMBER: (214)729-2281
3. STREET: Palestine
4. CITY: Palestine
5. STATE: TX
6. ZIP CODE: 75801

H. REALTY OWNER INFORMATION (if different from operator at site)

1. NAME: Same
2. TELEPHONE NUMBER:
3. CITY:
4. STATE:
5. ZIP CODE:

I. SITE DESCRIPTION: The site is the location of an aluminum production facility. The plant proper and waste disposal and treatment areas are fenced and account for 250 of the (See Attachment A)

J. TYPE OF OWNERSHIP: ☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☐ 4. MUNICIPAL ☒ 5. PRIVATE

II. TENTATIVE DISPOSITION (complete this section last)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mm., day, & yr.):

B. APPARENT SERIOUSNESS OF PROBLEM: ☐ 1. HIGH ☐ 2. MEDIUM ☒ 3. LOW ☐ 4. NONE

C. PREPARER INFORMATION

1. NAME: David Anderson
2. TELEPHONE NUMBER: (214)742-4521
3. DATE (mm., day, & yr.): Sept. 2, 1982

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION

1. NAME: David Anderson David Anderson
2. TITLE: FIT-Chemist
3. ORGANIZATION: Ecology and Environment, Inc., 1509 Main St., Dallas, TX 75201
4. TELEPHONE NO. (area code & no.): (214)742-4521

B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
Alcee Chriss	Ecology and Environment, Inc.	(214)742-4521

C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, residents)

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
O.W. Wilkerson	Environmental & Safety Supt. (214)729-2281	P.O. Box 558, Palestine, TX 75801
Tom Nienaber	Sr. Environmental Scientist (214)729-2281	" "

SUPERFUND FILE
JUL 14 1992
REORGANIZED

Review AT Gordon 7/22/82

9158592

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III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (sources of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
Alcoa	(214)729-2281	P.O. Box 558, Palestine, TX 75801	corrosive, reactive toxic, PCB

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
Alcoa	(214)729-2281	P.O. Box 558, Palestine, TX 75801	PCB's; corrosive

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS
ESI, Inc.	(208)834-2275	Box 936, Mountain Home, Idaho 83647

G. DATE OF INSPECTION (mo., day, & yr.)	H. TIME OF INSPECTION	I. ACCESS GAINED BY: (credentials must be shown in all cases)
7/15/82	8:30-11:30	☒ 1. PERMISSION ☐ 2. WARRANT

J. WEATHER (conditions)
Clear, calm, 85°F

IV. SAMPLING INFORMATION

A. Mark "X" for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark "X")	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER			
b. SURFACE WATER			
c. WASTE			
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify)	X	No samples were collected during this inspection.	

B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, pH, etc.)

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
None		

Continue On Page 3

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Continued From Page 1

IV. SAMPLING INFORMATION (continued)

C. PHOTOS

1. TYPE OF PHOTOS: [X] a. GROUND [ ] b. AERIAL

2. PHOTOS IN CUSTODY OF: EPA Region 6, Dallas, TX (See Attachments)

D. SITE MAPPED?: [X] YES, SPECIFY LOCATION OF MAPS. See Attached Map and Sketches

E. COORDINATES

1. LATITUDE (deg-min-sec): 31°48'44"N

2. LONGITUDE (deg-min-sec): 95°30'55"W

V. SITE INFORMATION

A. SITE STATUS

[X] 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if inactive quantity.)

[ ] 2. INACTIVE (Those sites which no longer receive wastes.)

[ ] 3. OTHER (specify): (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

B. IS GENERATOR ON SITE?

[ ] 1. NO [X] 2. YES (provide generator's four-digit SIC Code): 3334, 2819

C. AREA OF SITE (in acres): 250 plant site. Approx. 40 used for disposal.

D. ARE THERE BUILDINGS ON THE SITE?

[ ] 1. NO [X] 2. YES (specify): Plant and office buildings

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking "X" in the appropriate boxes.

[X] A. TRANSPORTER	[X] B. STORER	[X] C. TREATER	[X] D. DISPOSER
1. RAIL	1. PILE	1. FILTRATION	X 1. LANDFILL
2. SHIP	2. SURFACE IMPOUNDMENT	2. INCINERATION	2. LANDFARM
3. BARGE	X 3. DRUMS	3. VOLUME REDUCTION	3. OPEN DUMP
X 4. TRUCK	4. TANK, ABOVE GROUND	4. RECYCLING/RECOVERY	X 4. SURFACE IMPOUNDMENT
5. PIPELINE	5. TANK, BELOW GROUND	X 5. CHEM/PHYS/TREATMENT	5. UNDERGROUND DUMPING
6. OTHER (specify):	6. OTHER (specify):	6. BIOLOGICAL TREATMENT	6. INCINERATION
		7. WASTE OIL REPROCESSING	7. UNDERGROUND INJECTION
		8. SOLVENT RECOVERY	8. OTHER (specify):
		9. OTHER (specify):	

E. SUPPLEMENTAL REPORTS. If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this form.

[X] 1. STORAGE [ ] 2. INCINERATION [X] 3. LANDFILL [X] 4. SURFACE IMPOUNDMENT [ ] 5. DEEP WELL

[X] 6. CHEM/BIO/PHYS TREATMENT [ ] 7. LANDFARM [ ] 8. OPEN DUMP [X] 9. TRANSPORTER [ ] 10. RECYCLER/RECLAIMER

VII. WASTE RELATED INFORMATION

A. WASTE TYPE

[X] 1. LIQUID [X] 2. SOLID [X] 3. SLUDGE [ ] 4. GAS

B. WASTE CHARACTERISTICS

[X] 1. CORROSIVE [ ] 2. IGNITABLE [ ] 3. RADIOACTIVE [ ] 4. HIGHLY VOLATILE

[X] 5. TOXIC [X] 6. REACTIVE [ ] 7. INERT [ ] 8. FLAMMABLE

[ ] 9. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of waste quantities available? Specify items such as manifests, inventories, etc. below.

Yes, Alcoa has records of amounts of wastes generated.

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VII. WASTE RELATED INFORMATION (continued)

1. Estimate the amount (specify unit of measure) of waste by category. Mark "X" in indicate which wastes are present.

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT 294	AMOUNT None	AMOUNT 50	AMOUNT 14,000	AMOUNT None	AMOUNT None
UNIT OF MEASURE ton/year	UNIT OF MEASURE	UNIT OF MEASURE lbs/year	UNIT OF MEASURE tons/year	UNIT OF MEASURE	UNIT OF MEASURE
(01) PAINT, PIGMENTS	(01) OILY WASTES	(01) X HALOGENATED SOLVENTS *	(01) X ACIDS	(01) FLYASH	(01) LABORATORY PHARMACEUT.
X (02) METALS SLUDGES	(02) OTHER (specify)	(02) NONHALOGENTS. SOLVENTS	(02) PICKLING LIQUORS	(02) ASBESTOS	(02) HOSPITAL
(03) PUTN		(03) OTHER (specify) *Degreasing solvents	X (03) CAUSTICS	(03) MILLING/MINE TAILINGS	(03) RADIOACTIVE
(04) ALUMINUM SLUDGE			(04) PESTICIDES	(04) FERROUS SMELTING WASTES	(04) MUNICIPAL
(05) OTHER (specify)			(05) DYES/INKS	(05) NONFERROUS SMLTG. WASTES	(05) OTHER (specify)
			(06) CYANIDE	(06) OTHER (specify)	
			(07) PHENOLS		
			(08) HALOGENS		
			X (09) ACIDS *		
			(10) METALS		
			(11) OTHER (specify) *Disposed of off-site		

2. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (listed in descending order of hazard)

1. SUBSTANCE	2. FORM (mark "X") a. SOLID	b. LIQ.	c. GAS/VAPOR	3. TOXICITY (mark "X") a. HIGH	b. MED.	c. LOW	d. NONE	4. CAS NUMBER	5. AMOUNT	6. UNIT
Aluminum chloride	X							7784-13-6	1791.2*	ton/yr
Sodium hypochlorite		X						7681-58-9	11,939	ton/yr
Chromium hydroxide	X							1308-14-1	294	ton/yr
Unspecified acids		X						None	7500	gal/day
Deca chloro biphenyl		X						None	35,000	lbs/month

*Aluminum chloride contaminated material.

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an "X" in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

__ A. HUMAN HEALTH HAZARDS

Continue On Page 5

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Continued From Page 4

VIII. HAZARD DESCRIPTION (continued)

B. NON-WORKER INJURY/EXPOSURE

C. WORKER INJURY/EXPOSURE

D. CONTAMINATION OF WATER SUPPLY

E. CONTAMINATION OF FOOD CHAIN

F. CONTAMINATION OF GROUND WATER

Previous leakage from the hypochlorite pond, prior to installation of fiberglass liner. Monitor wells have picked up contamination, analysis shows 30-40,000 mg/l dissolved solids and a pH of 3-4.

G. CONTAMINATION OF SURFACE WATER

The company was cited for a fish kill in Hurricane Creek in 1977. There has been a problem with discharge of PCB's (deca chloro biphenyl specifically) in the past. PCB's were found in the sediments of the creek at concentration of 16.3-19.4 ppm at one point in 1979. The company has a schedule of compliance to eliminate PCB discharge in their revised NPDES permit.

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Continued From Front

VIII. HAZARD DESCRIPTION (continued)

H. DAMAGE TO FLORA/FAUNA

I. FISH KILL

Alcoa was cited for a fish kill in 1977 in Hurricane Creek.

J. CONTAMINATION OF AIR

K. NOTICEABLE ODORS

L. CONTAMINATION OF SOIL

M. PROPERTY DAMAGE

Continue On Page 7

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VIII. HAZARD DESCRIPTION (continued)

☐ N. FIRE OR EXPLOSION

☐ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

☐ P. SEWER, STORM DRAIN PROBLEMS

☐ Q. EROSION PROBLEMS

☐ R. INADEQUATE SECURITY

☐ S. INCOMPATIBLE WASTES

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VIII. HAZARD DESCRIPTION (continued)

☐ T. MIDNIGHT DUMPING

☒ U. OTHER (specify)

The site has been assessed as a low seriousness problem for the following reasons: 1) the high water solubility of the waste disposed of on-site. 2) The previous leakage from the hypochlorite impoundment, and 3) previous discharge of PCB's from the facility. The state is involved at the site concerning the PCB discharge as part of the State Water Discharge and NPDES permits, therefore no sampling is recommended in regard to surface water contamination.

The results of RCRA groundwater monitor well sample analysis were not available at the time of the inspection. These results should be obtained by the EPA, and any further action concerning the groundwater at the site should deferred until a review of this data is accomplished.

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
1. IN RESIDENTIAL AREAS	0	0	0	1 mile
2. IN COMMERCIAL OR INDUSTRIAL AREAS	180	180	50	1 mile
3. IN PUBLICLY TRAVELLED AREAS	0	0	0	1 mile
4. PUBLIC USE AREAS (parks, marinas, etc.)	0	0	0	1 mile

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify units)	B. DIRECTION OF FLOW	C. GROUNDWATER USE IN VICINITY
15-65 ft., dependent on elevation.	SE	Industrial, water supply
D. POTENTIAL YIELD OF AQUIFER	**E. DISTANCE TO DRINKING WATER SUPPLY (specify units)**	**F. DIRECTION TO DRINKING WATER SUPPLY**
Unknown - not used, XIII.J.	Less than 1/2 mile	North

G. TYPE OF DRINKING WATER SUPPLY

☒ 1. NONCOMMUNITY (< 15 CONNECTIONS) ☐ 2. COMMUNITY (specify name) (> 15 CONNECTIONS)

☐ 3. SURFACE WATER ☒ 4. WELL

Continue On Page 9

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Continued From Page 4

X. WATER AND HYDROLOGICAL DATA (continued)

A. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population buildings)	4. NONCOMMUNITY (mark "X")	5. COMMUNITY (mark "X")
01,02	500 ft.	on Alcoa Property	X	

1. RECEIVING WATER

1. NAME: Hurricane Creek to Neches River 0604

☐ 2. SEWERS ☒ 3. STREAMS/RIVERS ☐ 4. LAKES/RESERVOIRS ☐ 5. OTHER (specify):

2. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

Contact and non-contact recreation, propagation of fish and wildlife, domestic raw water supply.

XI. SOIL AND VEGITATION DATA

LOCATION OF SITE IS IN:

☐ A. KNOWN FAULT ZONE ☐ B. KARST ZONE ☐ C. 100 YEAR FLOOD PLAIN ☐ D. WETLAND

☐ E. A REGULATED FLOODWAY ☐ F. CRITICAL HABITAT ☐ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark "X" to indicate the type(s) of geological material observed and specify where necessary, the component parts.

"X"	A. OVERBURDEN	"X"	B. BEDROCK (specify below)	"X"	C. OTHER (specify below) Soils
X	1. SAND	X	Queen City Sand Beds	X	Sandy Loam
X	2. CLAY	X	Weches Form.	X	Clay Loam
	3. GRAVEL				

XIII. SOIL PERMEABILITY

☐ A. UNKNOWN ☐ B. VERY HIGH (100,000 to 1000 cm/sec.) ☐ C. HIGH (1000 to 10 cm/sec.)

☒ D. MODERATE (10 to 1 cm/sec.) ☐ E. LOW (.1 to .001 cm/sec.) ☐ F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

☐ 1. YES ☒ 2. NO 3. COMMENTS:

H. DISCHARGE AREA

☐ 1. YES ☒ 2. NO 3. COMMENTS:

I. SLOPE

1. ESTIMATE % OF SLOPE: Variable

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.: Variable according to location, generally to south, good condition.

J. OTHER GEOLOGICAL DATA

Carrizo aquifer is used in the area as a water supply. This aquifer is located at a depth of 300 to 800 ft., with a capacity of 100 to over 1000 gallon/minute. The Queen City sands aquifer also underlies the site, between the upper shallow groundwater and Carrizo. The site uses water from the Carrizo, not the upper shallow groundwater.

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Continued From Front

XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, Sec. NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, yr.)	E. EXPIRATION DATE (mo., day, yr.)	F. IN COMPLIANCE (mark "X") 1. YES	2. NO	3. UNKNOWN
RCRA	EPA	TX D 068980267	1980	None	X		
NPDES	EPA	TX D056341	1/27/76	See XV			X
State Water	Texas	01919	1/27/76	See XV			X
State Solid Waste	Texas	30143	1976	None	X		

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

☐ NONE ☒ YES (summarize in the space)

1977 - Alcoa was cited for a fish kill in Hurricane Creek.
1970 - Change in Solid Waste Registration
NPDES and State Water permits originally expired on 1/26/81. The permits have been amended pending review of a compliance schedule to remove PCB's from the outfalls. The date for full compliance was April 1, 1982. No information was available in the NPDES files to determine if compliance had been achieved. The State of Texas is handling the permitting.

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information on the first page of this form.

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Hypochlorite Pond

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT
Earthen with fiberglass liner (photos 1& 2).

2. STABILITY/CONDITION OF EMBANKMENTS
Excellent

3. EVIDENCE OF SITE INSTABILITY (Erosion, Settling, Seep Veins, etc.)
☐ YES ☒ NO

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE
☒ YES ☐ NO

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT
☒ YES ☐ NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT
☐ YES ☒ NO

7. IMPOUNDMENT HAS LINER SYSTEM
☒ YES ☐ NO Fiberglass lined

7a. INTEGRITY OF LINER SYSTEM CHECKED
☐ YES ☒ NO

7b. FINDINGS
NA

8. SOIL STRUCTURE AND SUBSTRUCTURE
Clay - 10^{-7} permeability

9. MONITORING WELLS
☒ YES ☐ NO

10. LENGTH, WIDTH, AND DEPTH
LENGTH 59 ft. WIDTH 59 ft. DEPTH 10 ft.

11. CALCULATED VOLUMETRIC CAPACITY
138,000 gal.

12. PERCENT OF CAPACITY REMAINING
100% empty at the time of inspection.

13. ESTIMATE FREEBOARD
Entpy

14. SOLIDS DEPOSITION
☐ YES ☒ NO

15. DREDGING DISPOSAL METHOD
NA

16. OTHER EQUIPMENT
Under drain leak collection system.

The current liner system is a replacement liner that failed.
Fluid leaked was of pH 3-4, dissolved solids concentration 30-40,000 mg/l.
Data from monitor wells indicates very slow movement of contaminated groundwater.

EPA Form T2070-3C (10-79)

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Dry Solids Pond #2

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT
Earthen (photos 3-8)

2. STABILITY/CONDITION OF EMBANKMENTS
Excellent

3. EVIDENCE OF SITE INSTABILITY (Erosion, Settling, Sink Holes, etc.)
☐ YES ☒ NO

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE
☒ YES ☐ NO

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT
☒ YES ☐ NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT
☐ YES ☒ NO

7. IMPOUNDMENT HAS LINER SYSTEM
☒ YES ☐ NO Clay + PVC

7a. INTEGRITY OF LINER SYSTEM CHECKED
☐ YES ☒ NO

7b. FINDINGS
NA

8. SOIL STRUCTURE AND SUBSTRUCTURE
Equivalent of 10 ft. 10^{-7} clay

9. MONITORING WELLS
☒ YES ☐ NO

10. LENGTH, WIDTH, AND DEPTH
LENGTH 500' 665' WIDTH 480' 320' DEPTH 20' (irregular shape)

11. CALCULATED VOLUMETRIC CAPACITY
14,962,000 gal.

12. PERCENT OF CAPACITY REMAINING
90%

13. ESTIMATE FREEBOARD
10 ft.

14. SOLIDS DEPOSITION
☒ YES ☐ NO

15. DREDGING DISPOSAL METHOD
NA

16. OTHER EQUIPMENT
Under drain leak collection system.

Improvement is used as a landfill, water in the impoundment is used for dust control.

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Chrom Sludge Pond

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT
Earthen (photos 3-8)

2. STABILITY/CONDITION OF EMBANKMENTS
Excellent

3. EVIDENCE OF SITE INSTABILITY (Erosion, Settling, Sink Holes, etc.)
☐ YES ☒ NO

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE
☐ YES ☒ NO

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT
☒ YES ☐ NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT
☐ YES ☒ NO

7. IMPOUNDMENT HAS LINER SYSTEM
☒ YES ☐ NO 10^{-7} clay + hyplon

7a. INTEGRITY OF LINER SYSTEM CHECKED
☐ YES ☒ NO

7b. FINDINGS
NA

8. SOIL STRUCTURE AND SUBSTRUCTURE
Clay - 10^{-7} permeability

9. MONITORING WELLS
☒ YES ☐ NO

10. LENGTH, WIDTH, AND DEPTH
LENGTH 180 ft. WIDTH 180 ft. DEPTH 7.5 ft.

11. CALCULATED VOLUMETRIC CAPACITY
1,759,000 gal.

12. PERCENT OF CAPACITY REMAINING
50%

13. ESTIMATE FREEBOARD
4 ft.

14. SOLIDS DEPOSITION
☒ YES ☐ NO

15. DREDGING DISPOSAL METHOD
No

16. OTHER EQUIPMENT
Under drain leak collection system.

EPA Form T2070-3C (10-79)

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Monochlorite Treaters

STORAGE FACILITIES SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE
[X] YES [ ] NO Concrete (photos 1 & 2)

2. STORAGE AREA HAS A CONFINEMENT STRUCTURE
[X] YES [ ] NO Concrete

3. EVIDENCE OF LEAKAGE/OVERFLOW *(If "Yes", document where and how much liquid is overflowing or leaking from containment)*
[ ] YES [X] NO

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS
None

5. GLASS OR PLASTIC STORAGE CONTAINERS USED
[ ] YES [X] NO

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS
2 -15,000 gal/day treaters

7. NOTE LABELING ON CONTAINERS
NA

8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS *(If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)*
[ ] YES [X] NO

9. DIRECT VENTING OF STORAGE TANKS
[X] YES [ ] NO

10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
[ ] YES [X] NO

11. INCOMPATICLE SUBSTANCES STORED IN CLOSE PROXIMITY *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
[ ] YES [X] NO

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES
[ ] YES [ ] NO NA

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS
[ ] YES [ ] NO NA

EPA Form T2070-3D (10-79)

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PCB Storage

STORAGE FACILITIES SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE
[X] YES [ ] NO Concrete (photo 10)

2. STORAGE AREA HAS A CONFINEMENT STRUCTURE
[X] YES [ ] NO Concrete

3. EVIDENCE OF LEAKAGE/OVERFLOW *(If "Yes", document where and how much (spill or overflowing or leaking from containment))*
[ ] YES [X] NO

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS
Approx. 12-55 gallon drums

5. GLASS OR PLASTIC STORAGE CONTAINERS USED
[X] YES [ ] NO Plastic container use being tested.

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS
None

7. NOTE LABELING ON CONTAINERS
Corrosive, PCB

8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS *(If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)*
[ ] YES [X] NO

9. DIRECT VENTING OF STORAGE TANKS
[ ] YES [ ] NO NA

10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
[ ] YES [X] NO

11. INCUMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*
[ ] YES [X] NO

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES
[ ] YES [ ] NO NA - shipped off-site

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS
[ ] YES [ ] NO NA - shipped off-site

EPA Form T2070-3D (10-79)

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Dry Solids Pond #1

LANDFILLS SITE INSPECTION REPORT
(Supplemental Report)

Photos 3-8

INSTRUCTION
Answer and Explain as Necessary.

1. EVIDENCE OF SITE INSTABILITY (Erosion, Settling, Sink Holes, etc)
☐ YES ☒ NO

2. EVIDENCE OF IMPROPER DISPOSAL OF BULK LIQUIDS, SEMI-SOLIDS AND SLUDGES INTO THE LANDFILL
☐ YES ☒ NO

3. CHECK RECORDS OF CELL LOCATION AND CONTENTS AND BENCHMARK
☐ YES ☒ NO

4. WASTES SURROUNDED BY SORBENT MATERIAL
☐ YES ☒ NO

5. DIVERSION STRUCTURES ARE EFFECTIVELY CONSTRUCTED AND PROPERLY MAINTAINED
☒ YES ☐ NO

6. EVIDENCE OF PONDING OF WATER ON SITE
☐ YES ☒ NO

7. EVIDENCE OF IMPROPER/INADEQUATE DRAINING
☐ YES ☒ NO

8. ADEQUATE LEACHATE COLLECTION SYSTEM (If "Yes", specify Type)
☒ YES ☐ NO Under drain collection system.

8a. SURFACE LEACHATE SPRING
☐ YES ☒ NO

9. RECORDS OF LEACHATE ANALYSIS
☐ YES ☐ NO NA

10. GAS MONITORING
☐ YES ☒ NO

11. GROUNDWATER MONITORING WELLS
☒ YES ☐ NO

12. ARTIFICIAL MEMBRANE LINER INSTALLED
☒ YES ☐ NO 20 mil PVC

13. SPECIFIC CONTAINMENT MEASURES (Clay Bottom, Sides, etc)
☒ YES ☐ NO 3 ft. 10^{-7} clay bottom & sides

14. FIXATION (Stabilization) OF WASTE
☒ YES ☐ NO

15. ADEQUATE CLOSURE OF INACTIVE PORTION OF FACILITY
☒ YES ☐ NO Completely closed

16. COVER (Type)
Clay, PVC, soil

16a. THICKNESS
18" of clay
30 mil PVC
18" soil

16b. PERMEABILITY
clay - 1×10^{-8}

16c. DAILY APPLICATION
☐ YES ☐ NO NA

EPA Form T2070-1E (10-79)

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ATTACHMENT A

PO..NTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding number on form	Additional Remark and/or Explanation
I.i.	5000 acres of Alcoa property. Hurricane Creek borders the southern edge of the site. The facility was opened in 1976.

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GROUNDWATER MONITORING SYSTEM SUPPLEMENTAL FORM

1. FACILITY NAME and LOCATION:

Alcoa Anderson County Works

Palestine, Texas

2. SKETCH SHOWING WELL LOCATIONS — ATTACHMENT NO._____

3.

Monitoring Well ID	Well Depth	Static Water Depth	Casing Depth	Type of Casing	Screening Depth
374-1,374-2 374-4,374-5	20-80 ft.	10-70 ft.	Unknown	PVC	Unknown
374-6,376-4 376-9,376-10	Depending on	Depending on location			
376-11,376-12	location				

4. OBTAIN COPY OF WELL CONSTRUCTION DESIGN - ATTACHMENT NO._____

5. OBTAIN COPIES OF COMPANY's PERTINENT SELF MONITORING DATA ATTACHMENT NO._____

6. COMMENTS

The wells listed are the RCRA monitor wells that Alcoa has installed. There are seven other monitor wells on site that are not used for RCRA. Also attached is a potentiometic map showing groundwater depths.

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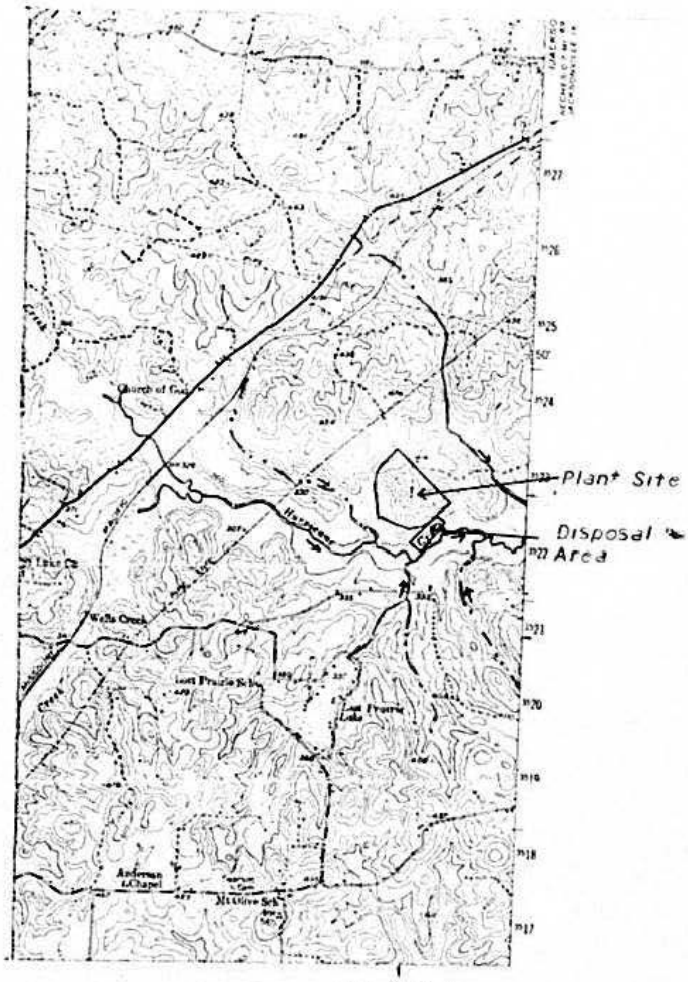

ALCOA
ANDERSON COUNTY WORKS
PALESTINE, TEXAS
TX 06009

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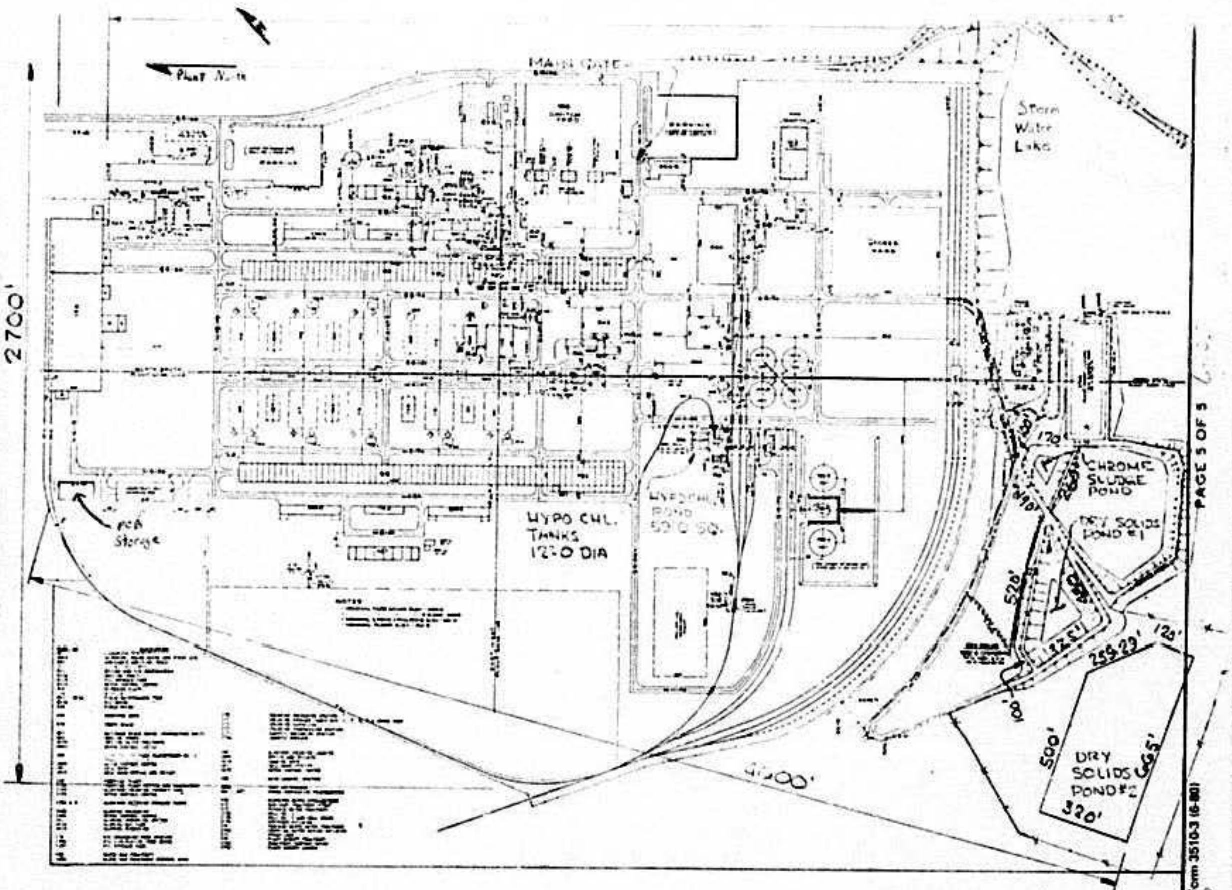
Form Approved OMB No. 158-S80

Continued from page 4.

V. FACILITY DRAWING *(see page 4)*



EPA Form 3510-3 (6-80)

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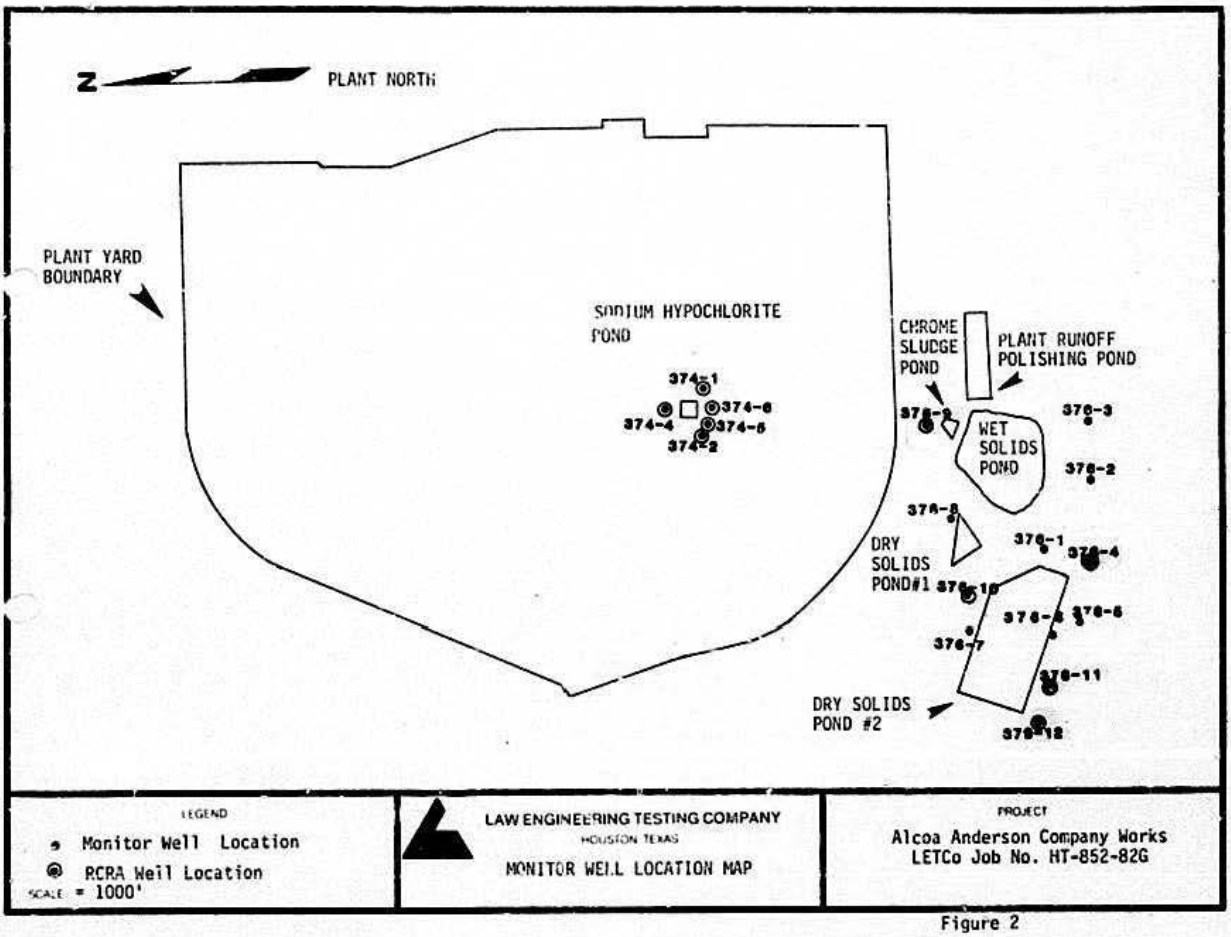

Figure 2

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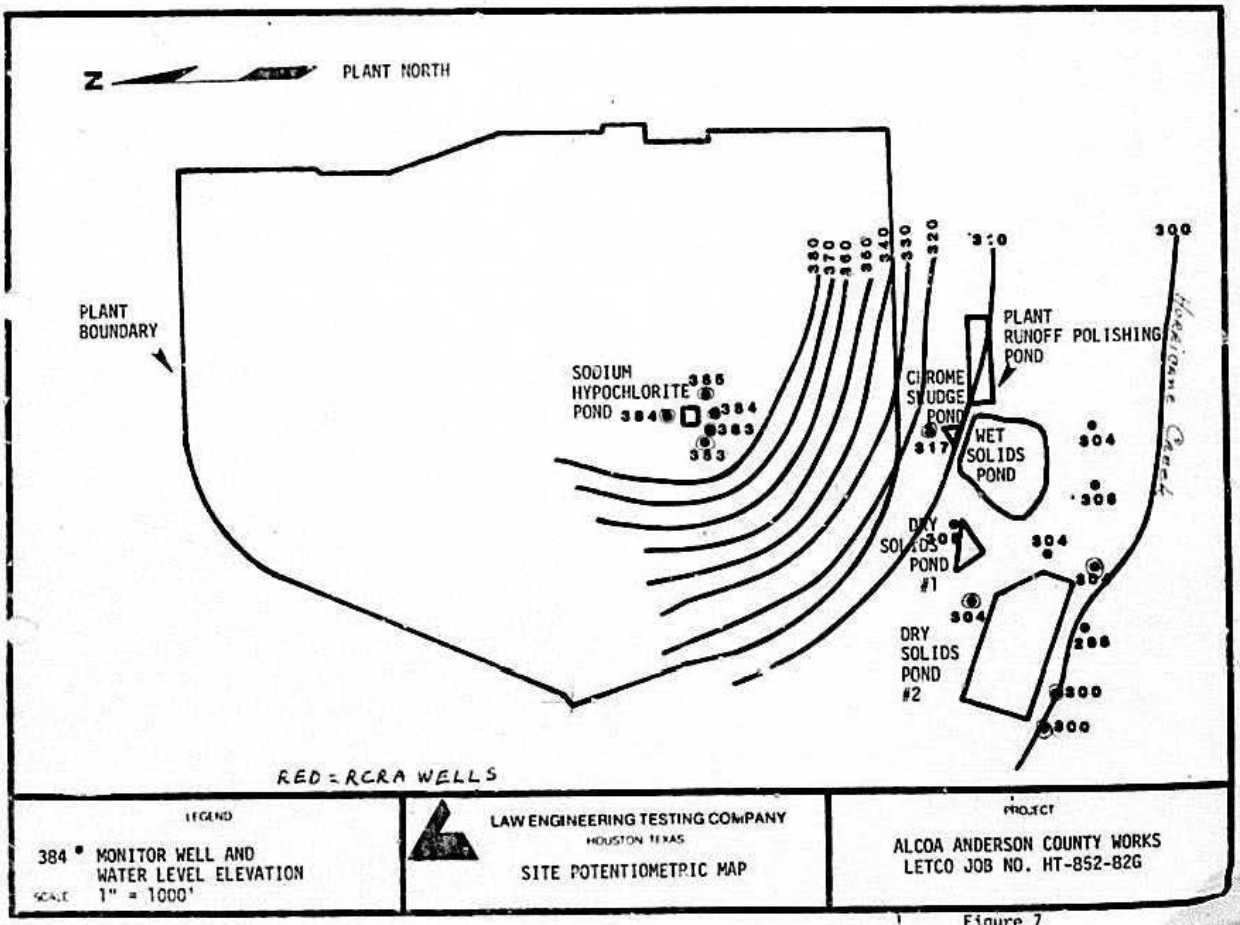

Figure 7

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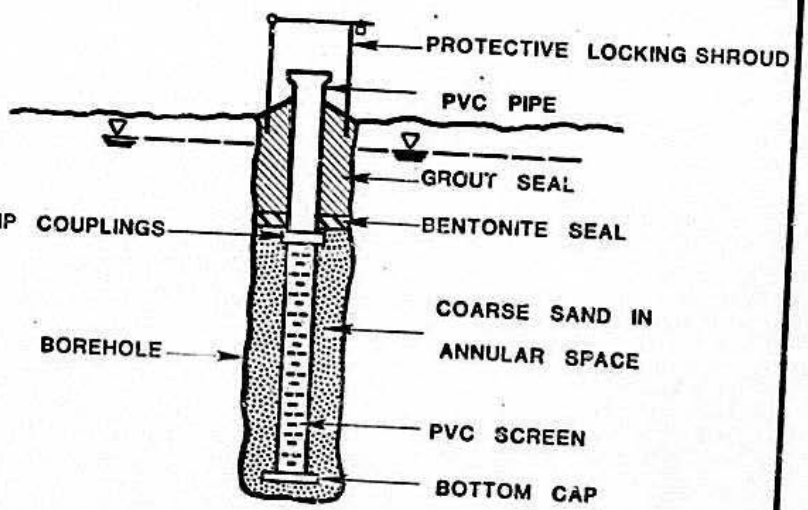
SCHEMATIC OF TYPE II WELL



(NOT TO SCALE)

Type II Well Design	LAW ENGINEERING TESTING COMPANY HOUSTON, TEXAS Alcoa, Anderson County Works LETco Job No. HT-852-82-G

Figure 8

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RECEIPT FOR RECORDS

United States Environmental Protection Agency
1201 Elm Street Dallas TX 75270
Arkansas Louisiana Oklahoma Texas New Mexico

EPA

David Anderson FST Chief — 7-19-82 (Date)
(Name & Title of EPA Representative) — David Anderson (Signature)

Description of Documents Collected

(Description of letters should include the date and names of addressee and sender; description of records should include title, date, and if signed, the name of person signing.)

Monitor Well Location Map - Law Engineering Report Fig 2
Type II Well Design " Fig 8
Site Potentiometric Map " Fig 7

Acknowledgement of Facility Representative

The undersigned acknowledges that copies of the documents described above have been collected.

O.E. Wilkinson, Fire & Safety Supt — O.E. Wilkinson
(Name & Title of Facility Representative) (Signature)

Alcoa Palestine Tx
(Facility Name and Address)

DISTRIBUTION: One copy to Facility Representative
One copy for Inspector's Records
Original to Regional Office (6ASASC)

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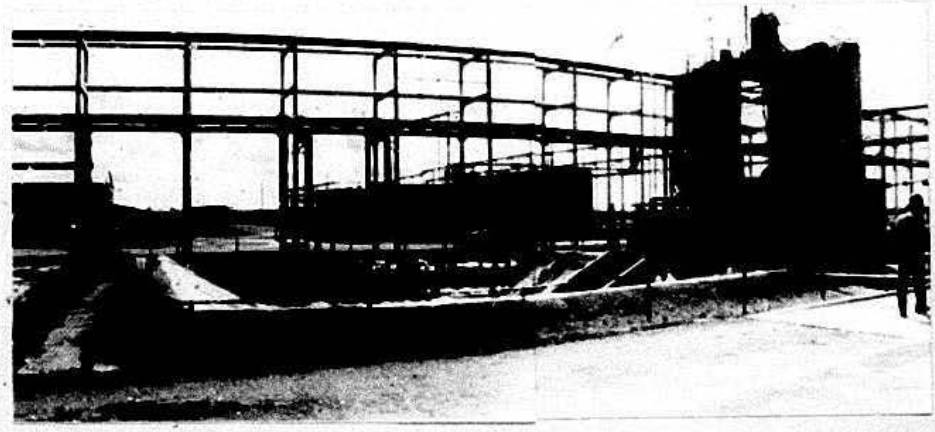

Photographer / Witness
David Anderson / Alice Chris

Date / Time / Direction
7-15-82 / 959 / East

Comments:
photo # 1 & 2
Hypochlorite pond and
Hypochlorite treatment tanks

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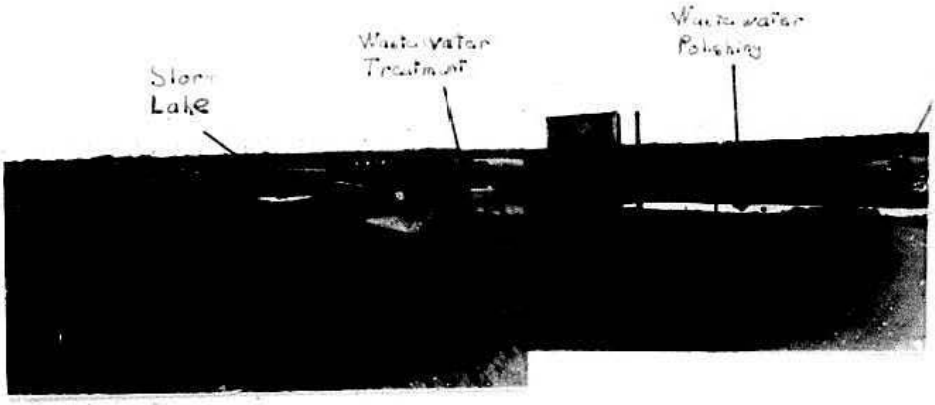

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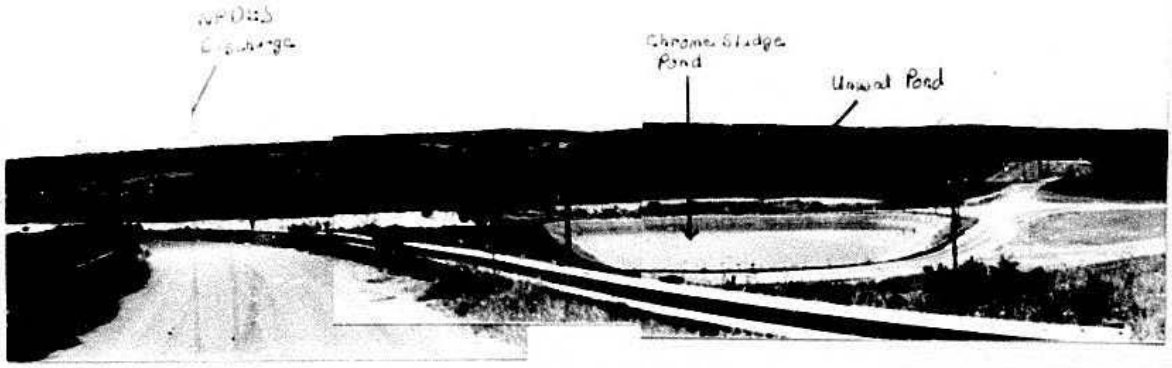

Photographer / Witness
David Andrews / Alece Chrisu

Date / Time / Direction
7-15-82 / 1035 / SE

Comments:
photos 3-8
Disposal areas on site
and Wastewater treatment
plant
Tree line marks Hurricane creek

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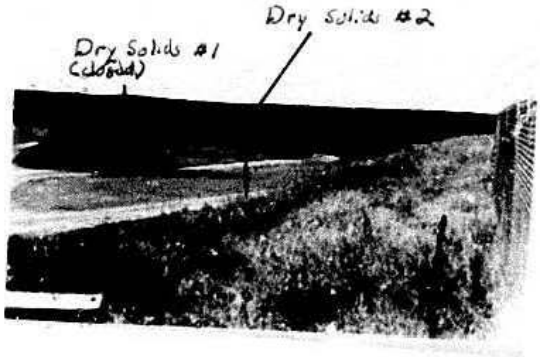

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Dry Solids Pond # 2-4 Sprays
(Background)

Inactive Dry Solids Pond # 1 (Closed)
(Center of Picture)

OEW 22/07/70

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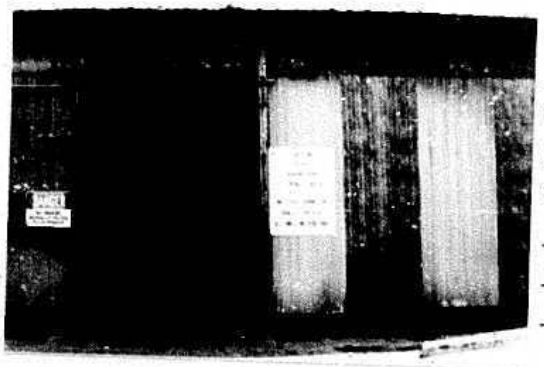

Photographer / Witness

David Anderson / Alace Chow

Date / Time / Direction

7-15-82 / 1044 / East

Comments: photo . 0

PCB storage building

entrance

Photographer / Witness

Date / Time / Direction

Comments:

Photographer / Witness

Date / Time / Direction

Comments:

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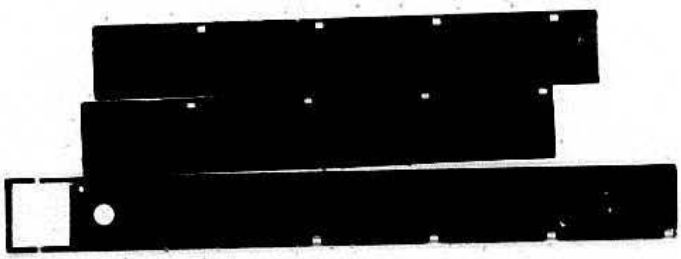

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