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PRELIMINARY ASSESSMENT
for
Roy O. Martin
Alexandria, Rapides Parish, Louisiana

November 4, 1999

Prepared for

Henry Thompson, Jr.
Deputy Project Officer
Project Management Branch
EPA- Region 6

Contract Number: 68-W6-0013

903986

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1.0 INTRODUCTION

The Region 6 Superfund Technical Assessment and Response Team (START) contractor, Ecology & Environment, Inc. (E & E), was tasked by the U. S. Environmental Protection Agency (EPA) under contract number 68-W6-0013 to conduct the Preliminary Assessment (PA) of Roy O. Martin site located in Alexandria, Rapides Parish, Louisiana.

1.1 PRELIMINARY ASSESSMENT OBJECTIVES

The purpose of a PA is to determine whether further investigations are warranted and to screen sites for further consideration under the Comprehensive Environmental Response, Compensation, Liability Act (CERCLA).

The PA investigation determines CERCLA eligibility, reviews file information, documents the presence and type, or absence, of area receptors and uncontained or uncontrolled hazardous substances on-site and off-site, and documents site characteristics. Information obtained during the Preliminary Assessment supports the management decision of whether the site warrants immediate removal action, proceeds to site inspection (SI) or receives the classification of No Further Remedial Action Planned (NFRAP) under the Superfund Amendments and Reauthorization Act (SARA).

2.0 SITE DESCRIPTION AND OPERATIONAL HISTORY

This section addresses operational history, waste containment, hazardous substance identification, and regulatory status of the facility.

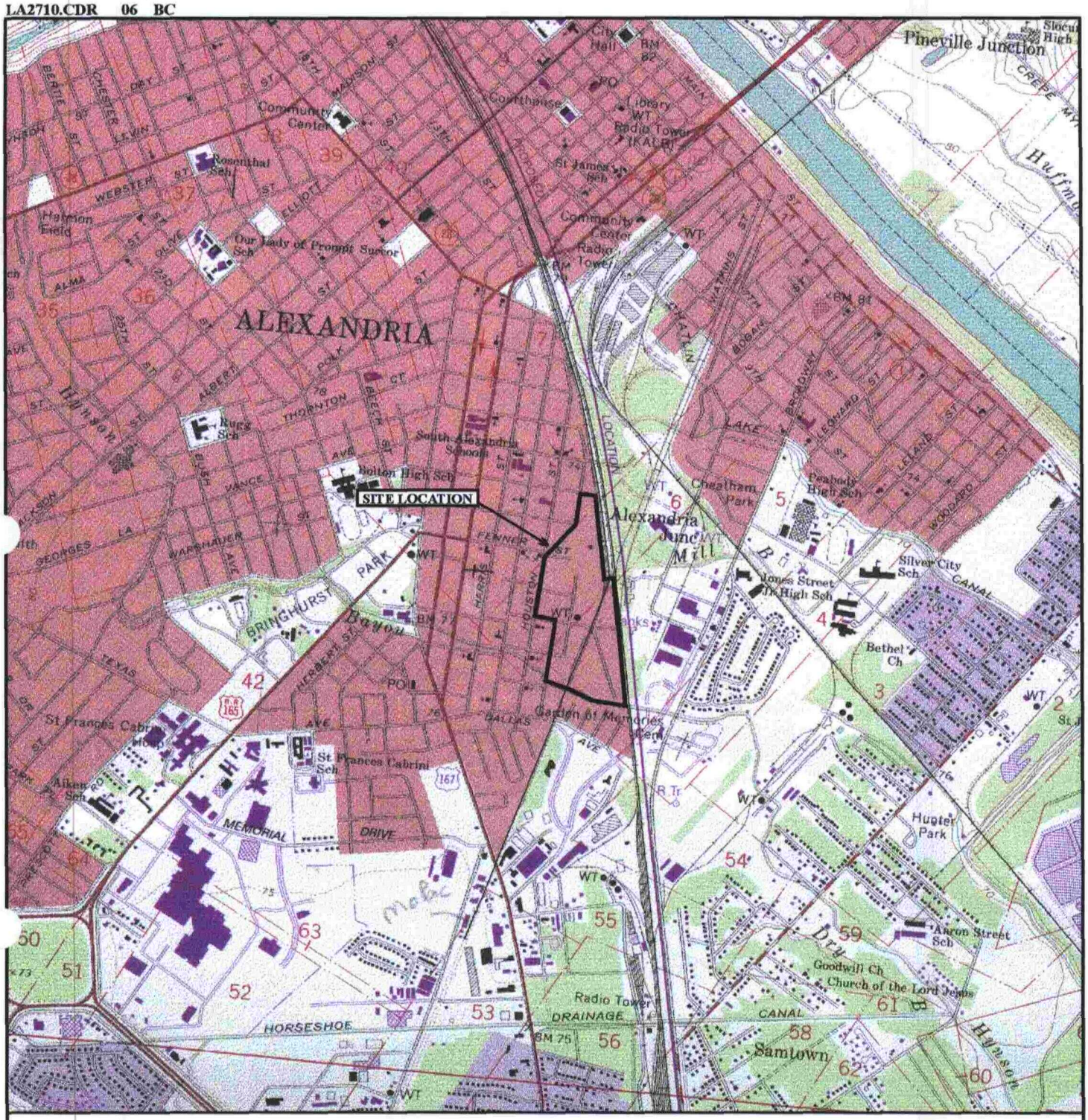
2.1 SITE LOCATION

The Roy O. Martin (Louisiana-Pacific) site is located at 1028 Fenner Street in Alexandria, in the northern portion of Rapides Parish, Louisiana. The geographical coordinates of the site are 31°17' 30.0" north latitude and 92°26' 43.0 " west longitude (Figure 1). The coordinates were measured from the center of the site on a United States Geographical Survey (USGS) topographic map using a 5-second template.

The property encompasses approximately 37 acres and is bordered by the Missouri-Pacific and Union Pacific railroads on the east, Hynson Bayou on the south, Mill Street and Houston Street on the west and MHC Properties Inc. on the north (Ref. 3; Ref. 4). The surrounding area is primarily residential with some commercial property use.

2.2 OPERATIONAL HISTORY

Roy O. Martin Lumber Company originally developed the sawmill in 1923. In 1978, Louisiana- Pacific Corporation purchased the facility and operated the sawmill until 1991. The shut down in 1991 was to be temporary and the equipment and 40 buildings were left intact. Only four buildings and a water tower are currently on site (Figure 2). The facility is currently inactive. Two office employees are on site for two shifts and a security guard is present at other times (Ref. 24) .



N

SCALE 1:24 000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET

QUADRANGLE LOCATION

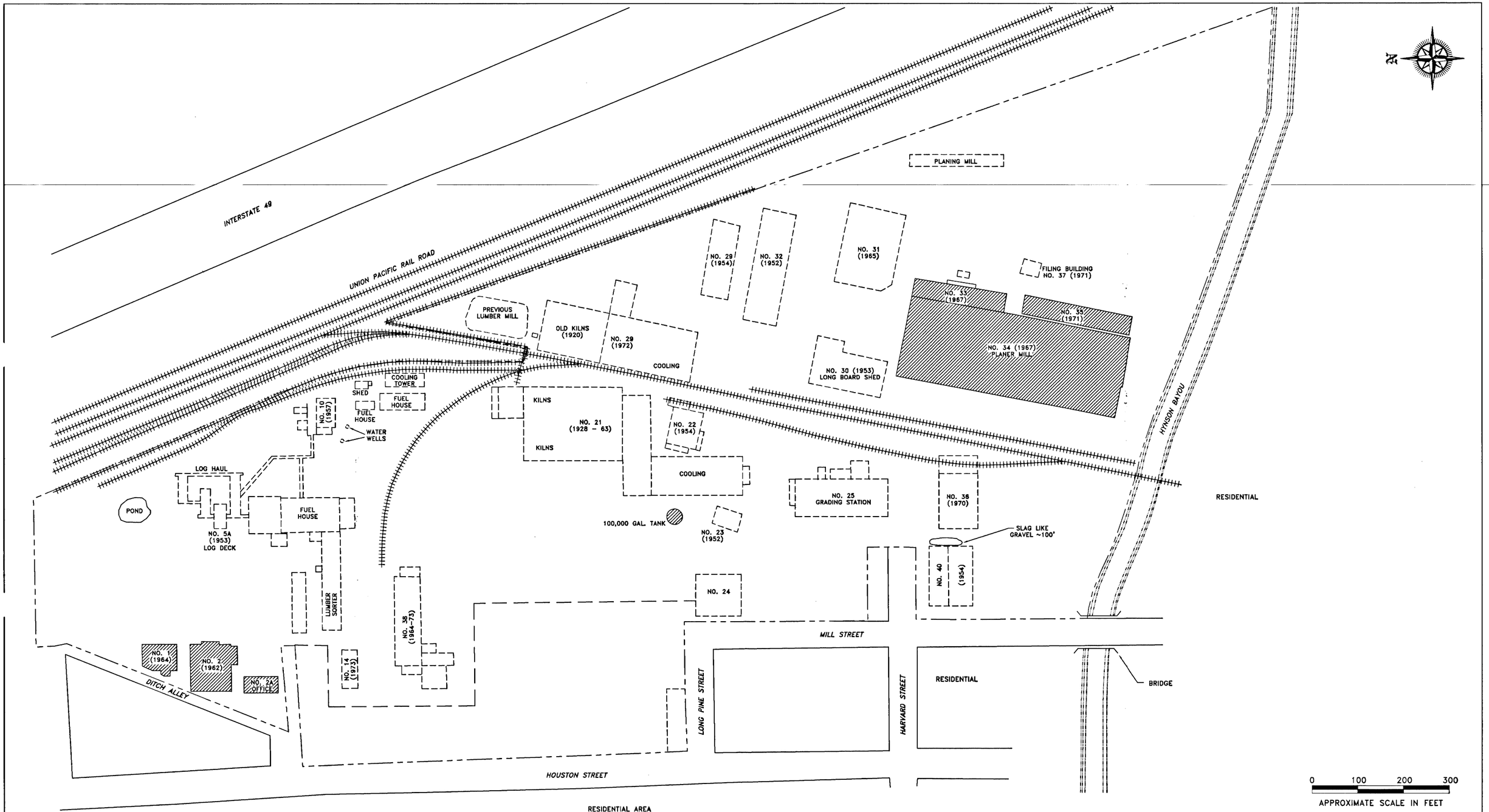
ecology and environment, inc.
Superfund Technical Assessment & Response Team-Region 6

CERCLIS/CASE No. LA0000605191 TDD No. S06-99-07-0007

SOURCE: U.S.G.S. 7.5 MIN. TOPOGRAPHIC QUADRANGLES
ALEXANDRIA, LOUISIANA - 1972

FIGURE 1
SITE LOCATION MAP
ROY O. MARTIN
ALEXANDRIA, RAPIDES PARISH COUNTY, LOUISIANA

LA2710.DWG 06 BC



LEGEND	
RAILROAD TRACKS	
FORMER BUILDINGS (FOUNDATIONS MAY STILL BE IN PLACE)	
EXISTING BUILDINGS	
PROPERTY BOUNDARY	

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FIGURE 2
SITE SKETCH
ROY O. MARTIN
ALEXANDRIA, RAPIDES PARISH COUNTY, LOUISIANA

TDD# S06-99-07-0007	Date: NOVEMBER 10, 1999
PAN# 092710SAXX	P.M.: M. CARSON

The wood treating conducted on site was the use of Permatox 10-S to prevent staining. The hardwood lumber was dipped in a trough following initial milling. The dates of the treatment are not known. According to the Material Safety Data Sheet (MSDS), the primary ingredients of Permatox 10-S are sodium borate, decahydrate and phenol, pentachloro-, sodium salt. (See Reference 7) The equipment and sawmill building in which the wood treatment operations were conducted have been removed from the site (Ref. 7).

Louisiana-Pacific Corporation plans to sell the property to a recycling firm.

2.3 ERB/ REMOVAL CONSIDERATIONS

No actual or potential exposure to nearby humans, animals, or food chain from hazardous substances, pollutants, or contaminants was noted during the file review and site reconnaissance. Louisiana-Pacific Corporation has conducted removal of polychlorinated biphenyl (PCB)-contaminated and petroleum-impacted soil (Ref. 6; Ref. 9). An asbestos assessment was conducted in June 1997 and abatement was conducted on buildings slated for demolition (Ref. 17, Ref.18).

Two 1,000-gallon above-ground storage tanks (ASTs) which stored diesel fuel and gasoline have been removed (Ref. 8). The date of removal is not known. Five underground storage tanks (USTs), which were used to store diesel, gasoline, and kerosene, were removed in December 1989. Independent contractor reports regarding the removal recommended no further assessment and/or remediation was warranted. Louisiana Department of Environmental Quality (LDEQ) accepted the UST closure reports (Ref. 8). Empty motor oil and hydraulic oil storage containers are still on site in the mechanic shop.

2.4 REGULATORY STATUS/ ACTIVTIES

Through a third party Phase I site assessment, Louisiana-Pacific discovered Toxic Substances Control Act (TSCA) PCB violations and reported the violations to EPA Region 6 on January 2, 1997 (Ref. 10). In May 1997, Louisiana-Pacific responded to an EPA Region 6 questionnaire regarding PCB violations. PCB-containing transformers and PCB-contaminated soils were removed in February 1997 and confirmatory samples were taken from the bottom of the excavation (Ref. 6; Ref. 10; Ref. 11). The drainage ditch behind the transformers was also sampled. No samples in the drainage ditch exceeded the 10 parts per million (ppm) cleanup level used (Ref. 6; Ref. 11).

2.5 SOURCE EVALUATION AND HAZARDOUS SUBSTANCE IDENTIFICATION

Limited potential sources or hazardous substances remain on site. In December 1989, the USTs were removed. Samples collected and analyzed for benzene, toulene, ethylbenzene, xylene (BTEX) and total petroleum hydrocarbons (TPH) samples collected after the removal of USTs revealed no significant leakage (Ref. 5). Closure status was granted by the Louisiana Department of Environmental Quality (LDEQ) in May 1990 (Ref. 8). In February 1997, PCB-containing electrical equipment and PCB-contaminated soils were removed under the supervision of ERM EnviroClean-Southwest L.L.C. and transported to Chemical Waste Management in Emile, Alabama for disposal (Ref. 6). PCB-contaminated areas were remediated to less than 10 ppm (Ref. 6). In June 1997, ERM EnvironClean-Southwest L.L.C. supervised the removal of on-site waste which included oils, grease, and various chemicals. (See Reference 37 of the ERM EnviroClean-Southwest report for an inventory list.) In June 1997, an asbestos assessment was performed and from July 1997 through January 1998 an asbestos abatement was performed prior to demolition of several buildings on site (Ref. 17; Ref. 18). The asbestos-containing waste was disposed at Mundy Landfill in Jena, Louisiana. (Ref. 18). In February 1998, ALTEC Environmental Consultants, Inc. was contracted to

remove TPH contaminated soil stored on the concrete foundation of Building #40. Clearance samples were taken downgradient of the building on the southeast and northeast. The sample results are within the risk-based criteria used of industrial site under LDEQ regulations (Ref. 9). The contaminated soil was disposed at the Magnolia Landfill in Monroe, Louisiana (Ref. 9). A Phase I environmental site assessment was conducted in June 1999 and noted only minor environmental conditions of concern in Building #1 such as oil in the oil change pit; drums containing filters, grease, and oil; ASTs containing motor oil and hydraulic oil; and petroleum product spill in the building (Ref. 8). During the September 1999 START site reconnaissance the above items were not found in Building #1 (Ref. 19, Attachment B).

The only area of concern found during the reconnaissance was a slag-like material forming a gravel driveway on the east side of Building #40. (See photos 118-121.) Neither the facility's longtime employee, Dwayne Moses, nor the 25-year former facility manager, Melvin Cody, knew the origins of the slag-like gravel (Ref. 24). The area of slag-like material is approximately 6' x 200'. The slag-like material is similar to the slag material found at the Ruston Foundry (CERCLIS# LAD985185107) site which is located ½ mile to the northeast. No samples have been collected from the material or areas surrounding the material at the Roy O. Martin facility. Hazardous substances associated with the slag found at Ruston Foundry included arsenic, chromium, cobalt, lead, mercury, and zinc (Ref. 30).

3.0 PATHWAY ASSESSMENT

This section characterizes the environmental pathways and associated targets of contaminant migration from the facility.

3.1 GROUND WATER PATHWAY

3.1.1 Ground Water Characteristics

The site is situated on Red River Alluvium. From youngest to oldest, the geologic units are the Grand Gulf Group, which consists of the Fleming Formation and the Catahoula Formation, Jackson Group, Claiborne Group, and the Sabine Group (Ref. 13).

The primary drinking water aquifers in the area are the Williamson Creek Aquifer and the Carnahan Bayou Aquifer which are part of the Jasper Aquifer system, of the Fleming Formation of the Grand Gulf Group (Ref. 13; Ref. 14; Ref. 25). The Castor Creek confining unit is located above the Williamson Creek Aquifer and the Dough Hills confining unit is located between the Williamson Creek and Carnahan Bayou Aquifers (Ref. 25). In some areas, the confining units are fissured and have large "holes" in them allowing water from one aquifer to flow into the other (Ref. 35). The Williamson Creek Aquifer is about 300 and the Carnahan Bayou Aquifer is about 66 feet thick feet thick in the Alexandria area (Ref. 13, 25). The Williamson Creek Aquifer is located approximately 100 feet below ground surface (bgs) and the Carnahan Bayou Aquifer is located approximately 500 feet bgs (Ref. 25). The depth to ground water is difficult to determine and varies greatly (Ref. 35).

3.1.2 Ground Water Receptors

Ground water is the primary source of drinking water for the residents of Alexandria, Pineville, and surrounding communities. The majority of public supply and domestic wells are completed in the Carnahan Bayou Aquifer (Ref. 14; Ref. 15). The municipal well nearest to Roy O. Martin is located at Lee Street and Masonic Street which is ¾ mile southwest of the facility (Ref. 36).

The following ground water information was obtained from the EPA's Expanded Site Inspection (ESI) of Ruston Foundry which is located less than ½ mile northeast of Roy O. Martin.

There are three active drinking water wells within the 1-mile target distance limit (TDL). Another public supply well is located 1.3 miles northeast of Roy O. Martin. The nearest domestic ground water well is located ½ mile north of Roy O. Martin and is completed in the Williamson Creek Aquifer at 285 feet. An additional 51 wells have been identified within the 1- to 4- mile TDL from the site (Ref. 30). Within the 4-mile radius, a total of 76.44 persons are served by domestic wells and 27,441 persons are served by municipal wells (Ref. 30). Ground water is also used for agricultural and industrial purposes (Ref. 12).

Ground water population with 4- mile radius*	
Distance	**Population**
0-1/4	0
1/4-1/2	0
1/2-1	2,466
1-2	6,729
2-3	11,702
3-4	6,544
Total Population	27,441

* This information was obtained from the Ruston Foundry ESI (Ref. 30).

The net precipitation for the Alexandria area is 31.19 inches (Ref. 20). The site is located in a wellhead protection area (Ref. 29).

3.2 SURFACE WATER PATHWAY

3.2.1 Surface Water Characteristics

Surface water from the site enters storm water drains in the residential area. Surface water also drains along the railroad drainage ditches that run southward to Hynson Bayou. Hynson Bayou is forms the southern boundary of the facility (Fig1; Fig.2). The probable point of entry (PPE) is considered to be any point on Hynson Bayou. Hynson Bayou flows 3 miles southeast to the Chatlin Lake Canal. The 15-mile target distance limit (TDL) is wholly within Hynson Bayou and the Chatlin Lake Canal (Ref. 21).

The site is situated on the Moreland-Latanier soil series which are nearly level, alkaline, clayey soils (Ref. 12). The two year, 24-hour rainfall is approximately 4.9 inches (Ref. 26). The upgradient drainage is the area of the site, which is approximately 37 acres (Ref. 4). The Roy O. Martin facility is located in a 100-year floodplain (Ref. 27).

3.2.2 Surface Water Receptors

National Pollution Discharge Elimination System (NPDES) discharge samples taken in 1998 and analyzed for biological oxygen demand (BOD), total settleable solids, total suspended solids, and pH did not exceed permit maximum levels. Discharge Monitoring Report samples were taken in 1998 and analyzed for chemical oxygen demand (COD), total suspended soilds, and zinc. Benchmark values for zinc were exceeded in three of four quarters although the facility was inactive and used for storing logs only. Jason Sanders, Project Manager for Environmental Affairs could not explain why the zinc benchmark was exceeded. Louisiana-Pacific continued to sample discharge after ceasing operation at the facility to retain the permits (Ref. 39).

Hynson Bayou is not used for fishing because many people know that the bayou has a lot of agricultural runoff (Ref. 38).

Chatlin Lake Canal, upstream of the confluence of Hynson Bayou, has been documented as a fishery(Ref. 30). It is not known if Chatlin Lake Canal is used for fishing below the confluence.

There are no surface water intakes within the 15-mile TDL (Ref. 28). There are no rare, threatened, endangered species or critical habitats within the 15-mile TDL (Ref. 22). Within the 15-mile TDL, 6 miles of wetland frontage have been identified (Ref. 23).

3.3 GROUND WATER RELEASE TO SURFACE WATER PATHWAY

The depth to ground water in the vicinity of the site is difficult to determine. The surface water elevation of Hynson Bayou is approximately six feet below natural grade (Photographs 122-123). Additional information is needed to determine if the criteria for the pathway have been met (Ref. 1).

3.4 SOIL EXPOSURE PATHWAY

The only concern in the soil exposure pathway is the slag-like gravel driveway east of Building # 40. The slag-like gravel has not been sampled and longtime employees of the facility have no knowledge of its origins.

The dimensions are 200 feet by 6 feet (Figure 2). PCB-, BTEX-, and TPH-contaminated soils have been removed and remediated. PCB-contaminated areas were remediated to less than 10 ppm (Ref. 6). TPH samples were collected downgradient of the building foundation. The results are
within the risk-based criteria used of industrial site under LDEQ regulations (Ref. 9).

3.4.1 Resident Threat Receptors

The site is continuously occupied by two office employees and one security guard who may come in contact with the suspect material (Ref. 24). If the material is indeed slag, the material is easily accessible by surrounding residents since that portion of the site is not fenced but is only cordoned off by a steel cable. Since the facility is continuously occupied by one of the employees or the security guard, trespassing by surrounding residents may be deterred. There are no schools within 200 feet of the suspected contamination (Ref. 21).

No day cares were noted during the September 1999 site reconnaissance (Ref. 19; Attachment B). There is no documented commercial agriculture, silviculture, livestock production or grazing on the area of suspected contamination (Ref. 19). There are no terrestrial sensitive environments on the area of suspected contamination (Ref. 33).

3.4.2 Nearby Threat Receptors

The site is somewhat accessible due to downed fencing or no fence in some areas (Photographs 110, 117). The nearest residents are greater than 200 feet from the suspect material. The nearest regularly occupied building is the on-site office building. The total population within a 1-mile radius is 9617 (Ref. 32). Within the 1-mile radius, there are three high schools, two private schools, and a community center (See figure 1).

Total population within 1 mile	
Distance	**Population**
0-¼ mile	775
¼-½ mile	1,973
½-1 mile	6,869
Total Population	**9,617**

3.5 AIR PATHWAY

3.5.1 Air Pathway Characteristics

Air monitoring during the START September 1999 site reconnaissance using an flame ionization dectector/ photoionization detector (FID/PID) did not exceed background and the lower explosive limit (LEL) measured by the Passport was not exceeded (Ref. 19). PCB- and TPH-contaminated soil, ASTs, USTs, and petroleum products have been removed and do not pose a threat to the air pathway.

3.5.2 Air Receptors

The nearest regularly occupied building is the on-site office. Two employees work in the office and one security guard is on-site during the night in the guard station. Within the 4-mile radius, there are 63,700 persons and 45 public or private schools (Ref. 32, 34). There are at least 250 acres of wetlands within a 4-mile radius of the facility (Ref. 23). There is one park within ½ mile. The surrounding area is primarily residential and no commercial agriculture or silviculture occurs within a ½- mile radius.

Total Population within 4 miles	
Distance	**Population**
0-1/4 mile	775
1/4- ½ mile	1,973
½-1 mile	6,869
2-3 miles	23,200
3-4 miles	10,246
Total	**63,700**

4.0 SUMMARY

The Roy O. Martin Louisiana-Pacific site is a 37-acre facility located in Alexandria, Louisiana. Roy O. Martin Lumber Company originally developed the sawmill in 1923. Louisiana-Pacific Corporation purchased the facility in 1978 and operated the sawmill until 1991. Since the shutdown, all except four buildings have been demolished. The facility is currently inactive; only two office employees and a security guard are on site. Louisiana-Pacific Corporation plans to sell the property to a recycling firm. Wood treating was conducted on-site using of Permatox 10-S. Hardwood lumber was dipped following initial milling to prevent staining. The equipment and sawmill building in which the wood treatment took place have been removed from the site. Asbestos containing materials were removed prior to demolition. PCB- and TPH- contaminated soils have been removed along with all PCB and non-PCB transformers. A strip of slag-like gravel drive is present on site. The origins and composition of the gravel is unknown. The slag-like material is similar to the slag material found at the Ruston Foundry site which is located ½ mile to the northeast. No samples have been collected from the material or areas surrounding the material at the Roy O. Martin facility. Hazardous substances associated with the slag found at Ruston Foundry included arsenic, chromium, cobalt, lead, mercury, and zinc.

REFERENCES

Reference Number	Description
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Reference 1

12-14-90
Vol. 55 No. 241

federal register

JAYNES

Friday
December 14, 1990

Book 2

United States
Government
Printing Office
SUPERINTENDENT
OF DOCUMENTS
Washington, DC 20402

OFFICIAL BUSINESS
Penalty for private use, $300

SECOND CLASS NEWSPAPER
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U S Government Printing Office
(ISSN 0097-6326)

Maggie Carson

Reference 2

United States
Environmental Protection
Agency

Office of Solid Waste
and Emergency
Response

Publication 9345.1-07
PB92-963377
EPA 540-R-92-026
November 1992

Superfund

EPA

Hazard Ranking System Guidance Manual

Reference 3

ASSESSMENT NUMBER		TOTAL ASSESSMENT	ASSESSMENT UNDER HOMESTEAD	ASSESSMENT NOT UNDER HOMESTEAD	TAXES PAID BY STATE	TAXES PAID BY TAXPAYER

856420 LOUISIANA PACIFIC CORPORATION
ATTN: FORESTRY TAX ACCOUNTING
P.O. BOX 3107
CONROE, TEXAS 77305

1 ----LOTS 1 & 2 SQ. 46, S.A.L. CO., LTD
(450-C BI 8130)----(CB 1215-160 DAY)
PARCEL I.D. # 24-7-8630-643 (1028 FENNER)
CLASS: 0

PROPERTY CLASS	UNITS	HMST AC	ASSESSMENT	HOMESTEAD	S P E C I A L T A X E S
COMM. SITE	2		450		GD1
COMMERCIAL IMP	1		8130		GD1
	8.580		0		8.580

.00	
PARISH TAXES	782.48
CITY TAXES	185.16

TAX MASTER INQUIRY
CURRENT TAX MASTER

WARD- 01A BOOK- 01 ASSMT- 1185600

T/SQ S	NAME/ADDRESS1	NAME/ADDRESS2
1001	ROY O. MARTIN INDUSTRIES, INC	C/O LA PACIFIC; ATTN: ROBT FOSHEE
1002	P. O. BOX 3107	CONROE, TX 77301

T/SQ S	PROPERTY DESCRIPTION	H
2001	----22 ACS: BEING PT OF SOUTH ALEX. ADDN (West of I 494	O
2002	(3 BI'S @ 31610)	O
2003	***PARCEL I.D. # 24-7-8630-835***	O
2004	----15.296 ACS: BEING A TRIANGULAR TRACT BOUNDED BY T & P RR; MO-PAC	O
2005	R.R. & HYNSON BAYOU	O
2006	(CB 818-625)	O
2007	***PARCEL I.D. # 24-5-34094-1***	O
2008	----7.83 ACS: FRTG 665' ON APPLEWHITE STREET	O
2009	(CB 747-117 & 121)	O
2010	***PARCEL I.D. # 24-5-34093-10***	O
2011	----5.413 ACS: FRTG 319.6' ON APPLEWHITE STREET X 584.6' ON L&A RR	O
2012	(CB 803-215 & 220)	O

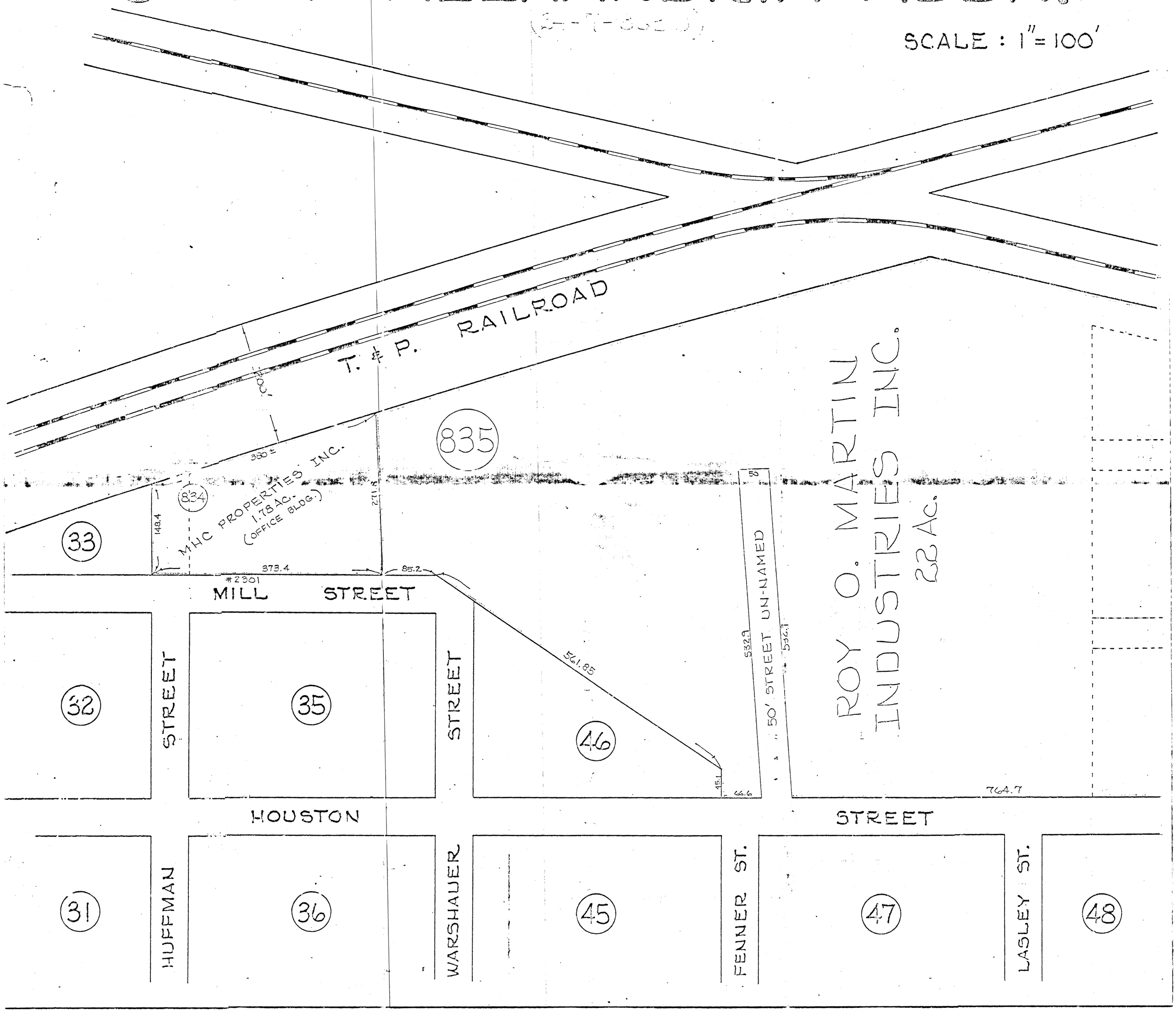
CMD 1 - LABEL

Rick Ducote

Reference 4

SOUTH ALEXANDRIA ADDN.

SCALE : 1" = 100'



BLK. 31 SOUTH ALEX. ADDN.
PAGE 101

BLK. 32 SOUTH ALEX. ADDN.
PAGE 101

HUFFMAN STREET

MILL STREET

WISE STREET

HOUSTON STREET

WARSHAUER STREET

FENNER STREET

BLK. 37
SOUTH ALEX. ADDN.
PAGE 103

BLK. 44
SOUTH ALEX. ADDN.
PAGE 103

BLK. 47
SOUTH ALEX. ADDN.

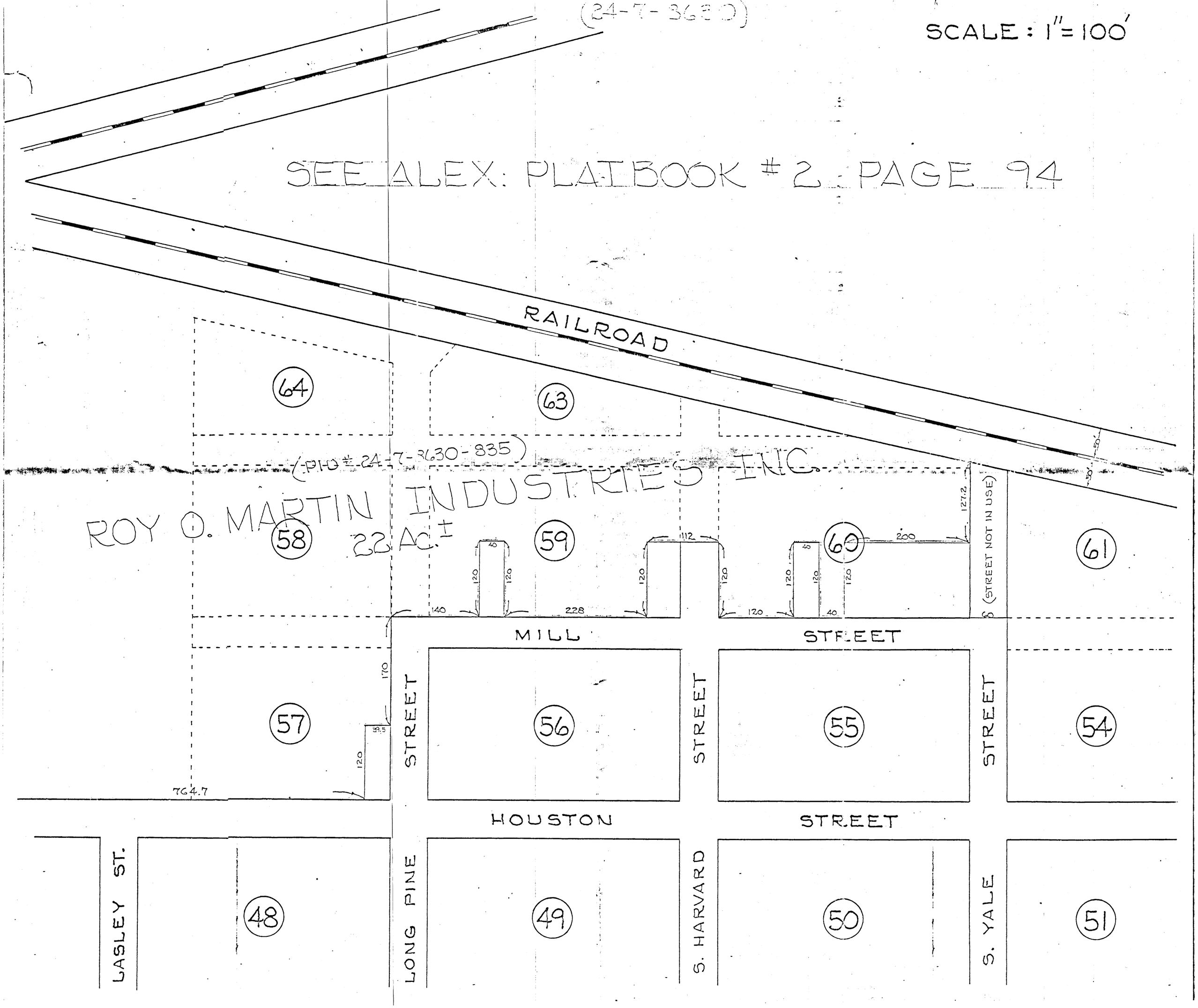
SCALE: 1" = 60'

103

SOUTH ALEXANDRIA ADDN.

(24-7-3630)

SCALE: 1" = 100'



Reference 5

GEOS

AN ENVIRONMENTAL MANAGEMENT CORPORATION

February 19, 1990

Mr. Frank Dautriel
Underground Storage Tank Division
Louisiana Department of Environmental Quality
P. O. Box 44274
Baton Rouge, Louisiana 70804

Re: Site Assessment and Documentation of Corrective Action, Louisiana Pacific Corporation, Alexandria, Louisiana, UST ID No. 40-010818-28781 thru -28686.

Dear Mr. Dautriel:

We are pleased to submit this report on behalf of Louisiana Pacific Corporation in documentation of site assessment and corrective action at the above referenced site. This is in direct response to the letter sent by Mr. Johnnie L. Mayeux, dated, October 2, 1989, a copy of which is included in Appendix D, for your convenience.

We trust that the information contained herein will be sufficient to address your requirements. However, should you or your staff have any questions regarding this project or report, please feel free to contact me directly at (409) 962-9616.

For the GEOS Corporation,

Lonnie F. Gallas
Sr. Project Manager

cc: Dr. Jim Boswell, Louisiana Pacific Corporation, Conroe, Texas
Dr. Suda Bhagwhat, Bhagwat, Inc.
Mr. Johnnie L. Mayeux, LADEQ, Underground Storage Tanks, Pineville LA.

P.O. Box 519 Groves, Texas 77619 (409) 962-9616 FAX (409) 962-0158

GEOS

AN ENVIRONMENTAL MANAGEMENT CORPORATION

Site Assessment and Documentation of Corrective Action

For

Louisiana Pacific Corporation

Alexandria, Louisiana

February, 1990

GEOS

AN ENVIRONMENTAL MANAGEMENT CORPORATION

Table of Contents

Introduction Letter

Report

Appendix A Site Maps, Sample Location Maps, & Photographs

Appendix B Analytical Results

Appendix C Material Receipts

Appendix D Correspondence

LOCATION

The subject site is a saw mill facility located within the Alexandria city limits, in a suburban area of light industrial development.

The site physical description would include warehouses, office buildings, saw and planing mills, log storage areas, repair facilities, drying kilns, and paved parking areas. Site and location maps are included as appendix A, this report.

There were five tanks at this facility; registered according to State and Federal requirements. For the purpose of this report, the tanks shall be identified as follows:

Tank #1	550 Gallon Kerosene Fuel,	approximate age: unknown
Tank #2	2,000 Gallon Gasoline,	approximate age: unknown
Tank #3	6,000 Gallon Diesel Fuel,	approximate age: unknown
Tank #4	2,000 Gallon Diesel Fuel,	approximate age: unknown
Tank #5	2,000 Gallon Diesel Fuel,	approximate age: unknown

CIRCUMSTANCE

Construction notification was given, September 29, 1989, according to the requirements of the Louisiana Department of Environmental Quality for the removal and site assessment of five underground storage tanks, located as referenced above. The subject tanks of this report were subsequently removed, the tankholds backfilled with the removed overburden and/or additional clean material to restore the site elevations to grade, on December 14, 1989.

The excavation areas are labeled in the following manner for this report:

Excavation site for Tanks #1, #2, and #3 shall be called "Area #1".
Excavation site for Tanks #4 and #5 shall be called "Area #2".

Area #1 exhibited no obvious contamination or odors from possible spillage or overfill. The tanks had been installed on a sand bed, with the tank bottom of Tank #1 approximately four (4) feet below the ground surface; Tank #2 approximately nine (9) feet below the ground surface and Tank #3 approximately nine (9) feet below the ground surface.

Tank #1 was exhumed, and examined for corrosion holes and ruptured seams. The subject tank showed slight corrosion and no visible holes.

Tanks #2 and #3 were exhumed, and examined for corrosion holes and ruptured seams. The subject tanks exhibited very minor corrosion and no apparent holes.

Area #2 exhibited obvious contamination and odors from spillage, leaks, or overfill. The tanks had been installed on native soil, with the tank bottoms approximately eight (8) feet below the ground surface.

Tanks #4 and #5 were exhumed, and examined for corrosion holes and ruptured seams. The subject tanks exhibited heavy corrosion and holes, with no apparent weakened seams.

ASSISTANCE PROVIDED BY ON-SITE CONSULTANT

Mr. Daniel W. Brevard of the GEOS Corporation was on-site to coordinate the removal and insure proper chain-of-custody and methodology of sampling and site assessment on December 14, 1989. The following plan of action was discussed and initiated.

> **Excavate to the bottom of each tank hold and monitor the backfill, wall, and bottom soils with a field operable flame ionization device (FID).**
>
> **Purge the tanks with nitrogen, remove the tanks, examine the excavation for migrant contamination, overexcavate if necessary, and collect samples of the soil for laboratory analysis.**

The plan of action was maintained, the tanks were removed, and the open excavations were examined by analysis of free soil gas vapors on 12/14/89. A Century 128 FID organic vapor analyzer was used in-situ. (Serial No. 40870) The soil being removed was continuously monitored for contaminate levels.

Examination revealed contamination exclusively in Area #2 excavation. Based on this data, it was recommended that further overexcavation was necessary in Area #2 only.

The subject tanks will be kept on-site until disposed of as scrap. The waste residual was removed by a distributor's transport truck and put in skid tanks on-site to be used in Louisiana Pacific's equipment as needed. Copies of receipts for the tanks are provided in Appendix C.

Samples were collected from the open excavations and excavated soil, preserved, and delivered to the laboratory for analysis of TPH and BTEX. The results of these tests are attached, as is the Quality Assurance Data Sheet and chain-of-custody maintained by the laboratory.

Area #1 excavation was filled with the removed overburden with new clean backfill added to restore the site to proper elevation. Area #2 excavation was filled with clean soil with the contaminated soil stored on-site. This waste soil was placed on a monolithically poured concrete slab and covered with plastic sheeting to be aerated on-site for further analysis.

SITE CHARACTERIZATION

The Louisiana Pacific facility located in Alexandria, Louisiana is situated in Rapids Parish within the Red River terrace zone. These terrace deposits are of Pleistocene in age.

The excavation site yielded two separate facies of alluvium that appear to be cross-bedding of overbank deposition. The first facie is a reddish silty clay with sand laminae truncated by overlaying layers. The second facie was reached at a depth of seven feet. This second facies textural classification is that of a silty clay. The composition is mainly fines. We suggest that this should preclude or hinder migration of hydrocarbons due to the relatively small interstitial pore spaces.

GROUNDWATER CHARACTERIZATION

The project site is located on the Red River alluvium deposits. These deposits are of Pleistocene age and are not considered an aquifer supply of freshwater.

The William Creek Aquifer lies below the Red River alluvium at depths to 300 feet. The natural groundwater movement is upwelling. The recharge is usually from the terraces with discharge going directly to the stream and river systems.

The aquifers in this area are the Carnahan Bayou Aquifer and the Catahoula Aquifer. The Catahoula Aquifer being the major freshwater supply. This aquifer is reached at depths of 1500 to 2000 feet at the project site location. The Catahoula formation is of late Oligocene to early Miocene age and is fine to medium sand with clay interludes. The Catahoula formation supplies the potable water of the larger communities such as Alexandria.

METHODOLOGY

On-Site scanning for migrant volatiles is performed by use of a flame ionization detector (FID). In situations of tenacious soils, such as clays and silts, a fraction is collected and contained in a clean glass jar which is then thermally desorbed to release the volatile components into the headspace. These headspace gasses are then induced into the organic vapor analyzer (OVA).

The resultant reading is qualified by the on-site consultant as to soil type, moisture, and situational characteristics. A determination is then reached as to the necessity for additional excavation or for the collection of a soil sample for laboratory analysis.

Soil gas analysis is therefore used only as an aid to the qualified on-site consultant, and documentation of soil contaminants or of contaminant removal, is based upon laboratory analysis, if required.

The complete analytical results, including chain-of-custody and test methodology, are included in this report, Appendix B.

All required receipts for disposition of material from the site are included in this report as Appendix C.

OBSERVATIONS AND COMMENTS

The subject tanks had previously contained gasoline and/or diesel fuel for vehicular use with the exception of Tank #1, which contained kerosene.

On-site analyses of VOCs (volatile organic compounds) indicated possible antiquated spillage, overfill, or leakage resulting in significant contamination in Area #2. Remediation procedures requiring removal of contaminated soils was initiated and successfully completed as represented by laboratory analyses. (See Laboratory results Appendix B.) No significant contamination was indicated in Area #1, therefore, eliminating the need of overexcavation

Consequential laboratory analyses for all soil samples collected at all locations within the tankhold excavations revealed levels of BTEX below detectable limits of 0.5 mg/kg.

The laboratory analyses for all soil samples collected at all locations within the tankhold excavations revealed minor levels of TPH not exceeding 35.2 mg/kg.

CONCLUSION

At the time of this report, the waste soil removed from the Area #2 tankhold, is being aerated on-site and will be sampled and analyzed upon completion of the aeration procedure. Permission to aerate the waste soil was verbally granted by Mr. Johnnie L. Mayeux of the Louisiana Department of Environmental Quality. An addendum to this report will be submitted with the laboratory results.

Therefore, it is our opinion that no further assessment or remediation is warranted at this site.

GEOS

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Appendix A

Site Maps, Location Maps, & Photographs

Louisiana Pacific, Alexandria, LA
Geographical Location

GEOS
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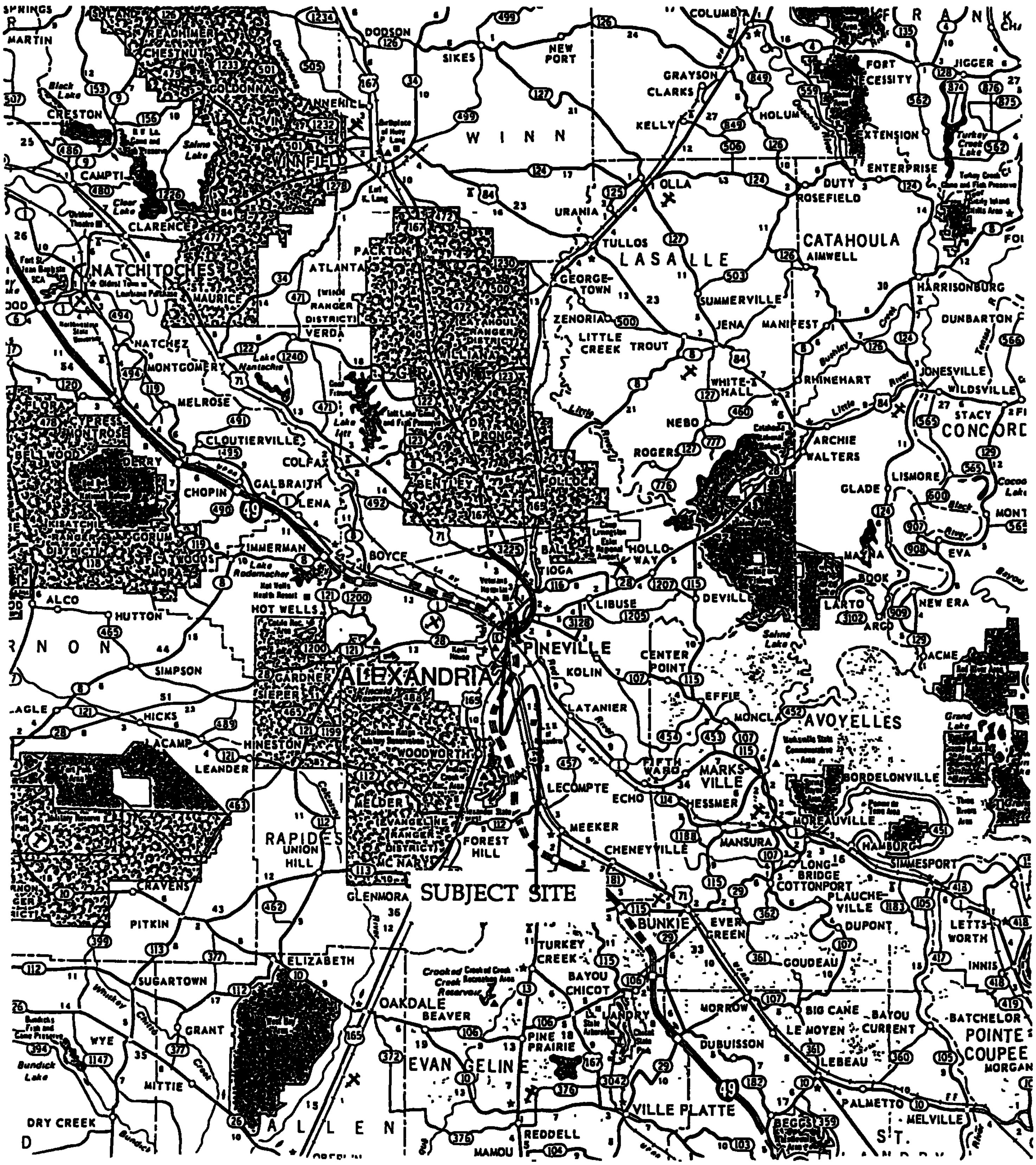
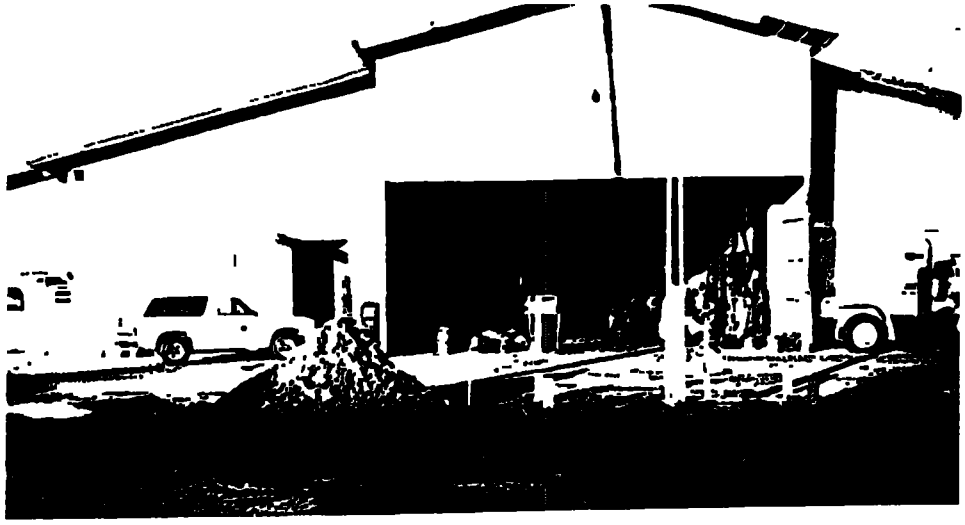


LEGEND

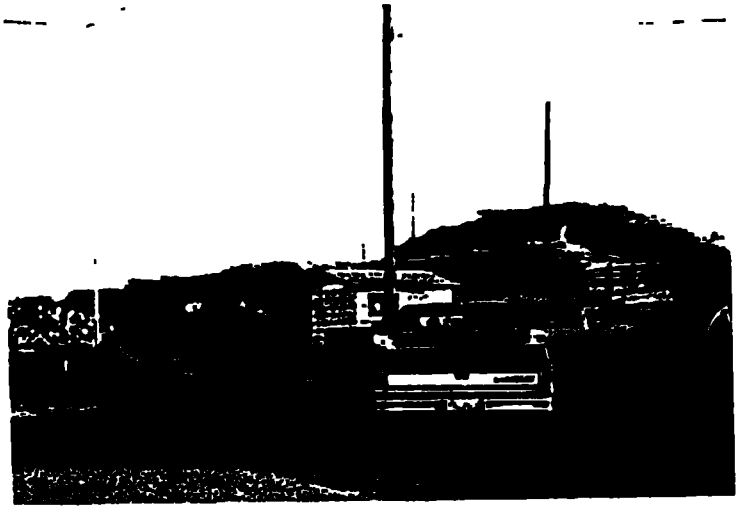
0 5 10 15 20

L P Alexandria, LA
Site Photograghs

GEOS
AN ENVIRONMENTAL MANAGEMENT CORPORATION



Location



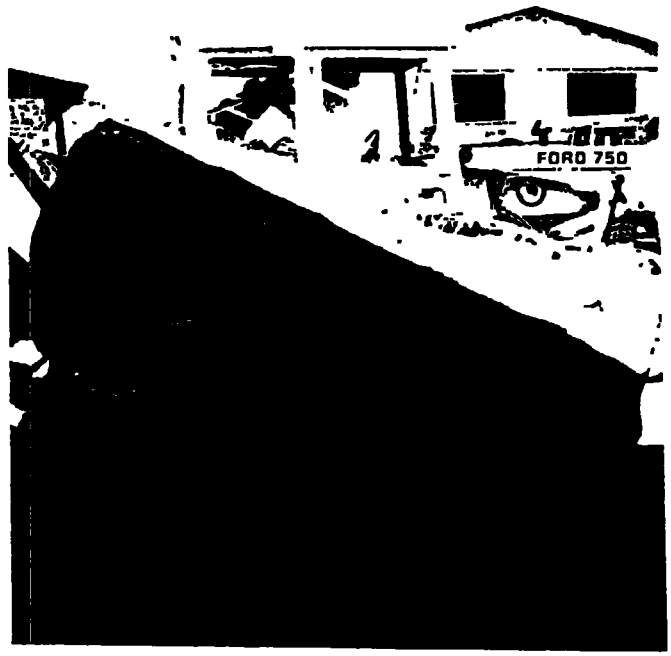
Stockpiled Soil Area #1

Waste Soil

L P Alexandria, LA
Site Photograghs

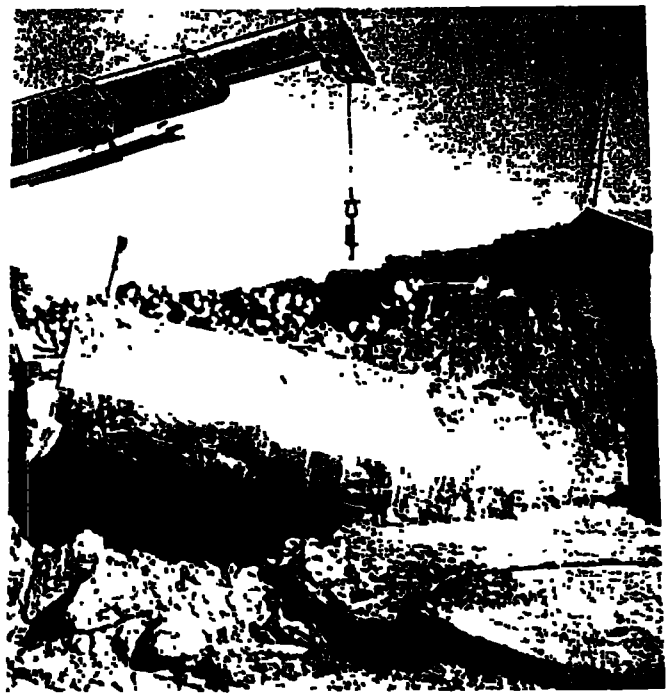
GEOS
AN ENVIRONMENTAL MANAGEMENT CORPORATION

Excavation Area #1



Tank # 1

Tank # 2

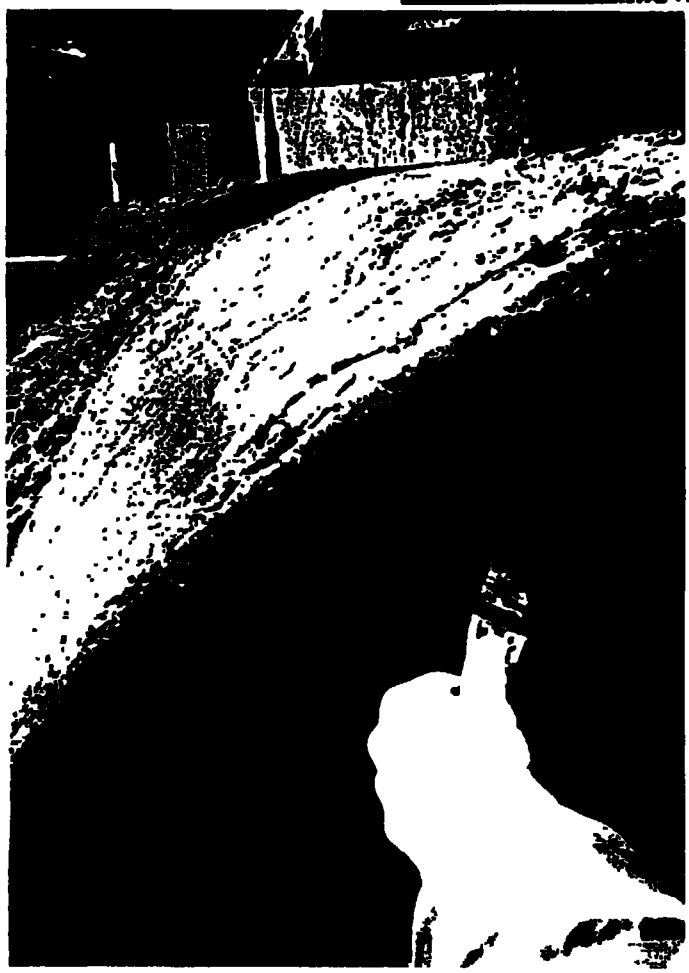


Tank # 3

L P Alexandria, LA
Site Photograghs

GEOS
AN ENVIRONMENTAL MANAGEMENT CORPORATION

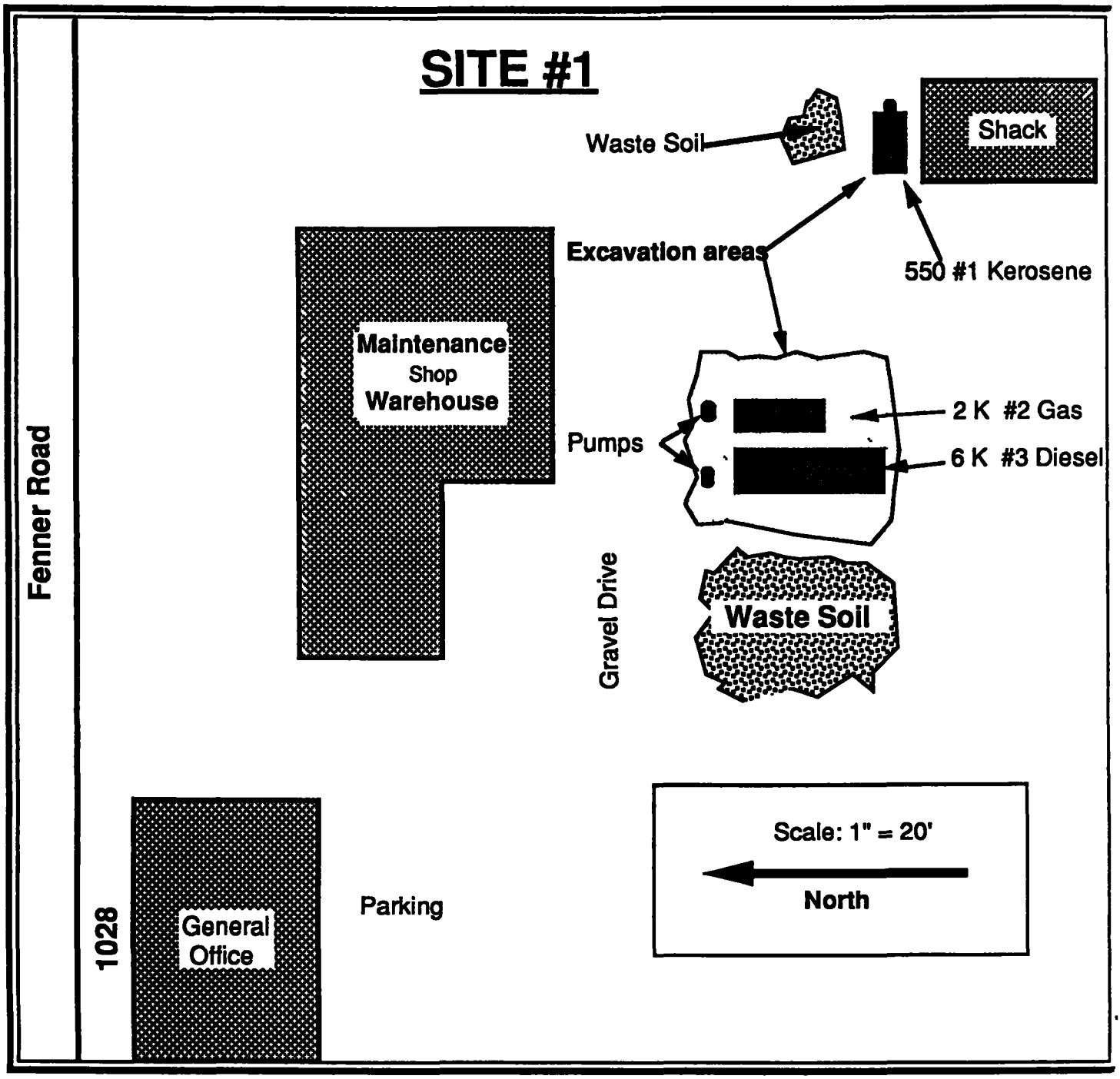
Excavation
Area #2



Tank # 4

Tank # 5

Louisiana Pacific, Alexandria, LA.
Site Map - Site # 1

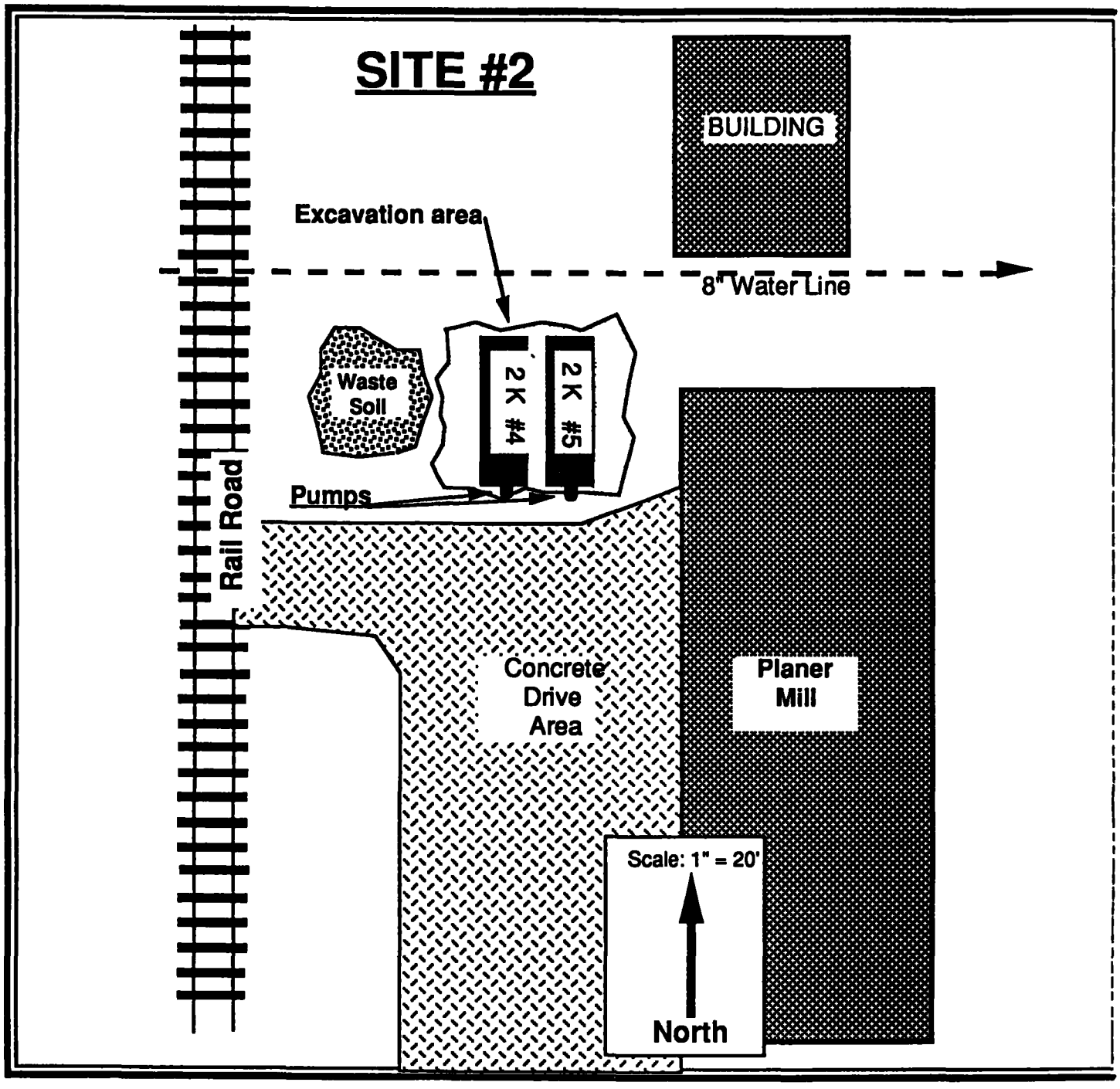


Drawn By: VH

: DR

GEOS
AN ENVIRONMENTAL MANAGEMENT CORPORATION

Louisiana Pacific, Alexandria, LA.
Site Map - Site # 2



Drawn By: TA

Reviewed By: DB

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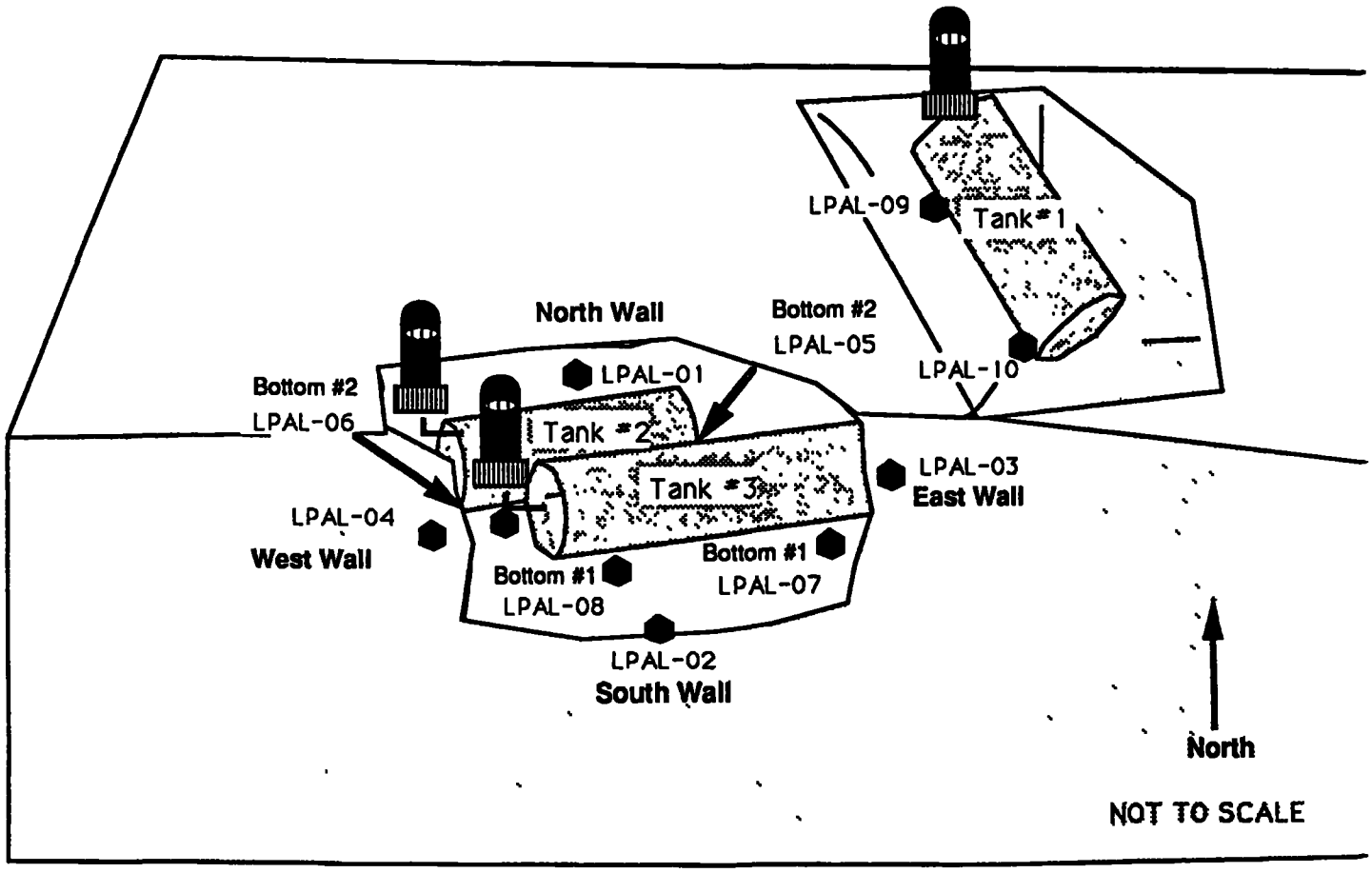
Louisiana Pacific, Alexandria, LA.
Location of Collection Points
Site #1

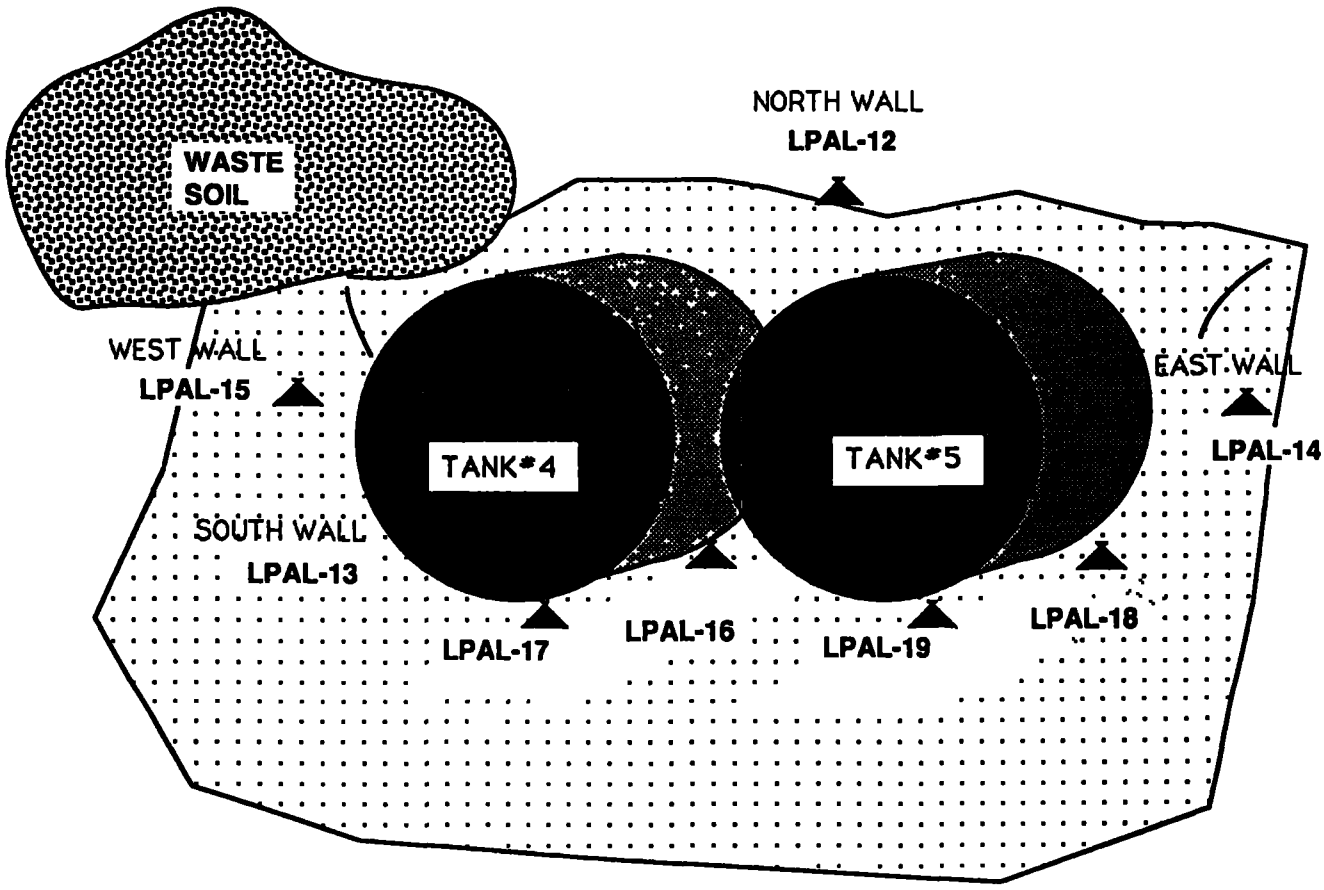


Drawn By: TH

Reviewed By: DB

GEOS
AN ENVIRONMENTAL MANAGEMENT CORPORATION

Louisiana Pacific, Alexandria, LA.
Location of Collection Points
Site #2



Drawn By: TH

Reviewed By: DB

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GEOS

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Appendix B

Analytical Results

Louisiana Pacific Corporation
Alexandria, Louisiana
Sample Locations & Data

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I.D.	Location	Type	Collector	Date	Time
LPAL01	North Wall	G	DWB	12-14-89	1215
LPAL02	South Wall	G	DWB	12-14-89	1330
LPAL03	East Wall	G	DWB	12-14-89	1130
LPAL04	West Wall	G	DWB	12-14-89	
LPAL05	East Bottom, #2	G	DWB	12-14-89	1320
LPAL06	West Bottom, #2	G	DWB	12-14-89	1320
LPAL07	East Bottom, #3	G	DWB	12-14-89	1100
LPAL08	West Bottom, #3	G	DWB	12-14-89	1030
LPAL09	North Bottom, #1	G	DWB	12-14-89	1145
LPAL10	South Bottom, #1	G	DWB	12-14-89	1145
LPAL11	Backfill, #1	Comp	DWB	12-14-89	1130
LPAL12	North Wall	G	DWB	12-14-89	1700
LPAL13	South Wall	G	DWB	12-14-89	1600
LPAL14	East Wall	G	DWB	12-14-89	1700
LPAL15	West Wall	G	DWB	12-14-89	1645
LPAL16	North Bottom, #4	G	DWB	12-14-89	1620
LPAL17	South Bottom, #4	G	DWB	12-14-89	1620
LPAL18	North Bottom, #5	G	DWB	12-14-89	1720
LPAL19	South Bottom, #5	G	DWB	12-14-89	1630

CHEMTEX

Environmental Laboratory

3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121296
Report Date: 12/27/89

RESULTS OF ANALYSIS

Project: Alexandria, Louisiana, L.P. Corp.

Sample Identification: LPAL 01, N. Wall, Soil

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Toluene (mg/kg)*	< 0.05	12/21-22/89 CNR
Ethyl Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Xylene (mg/kg)*	< 0.05	12/21-22/89 CNR
Total Petroleum Hydrocarbons (mg/kg)**	< 10.0	12/21-22/89 CNR

* Analyzed by GC/Purge & Trap/PID
** Extracted by EPA method # 3550 and Analyzed by GC/FID

CNReddy

Dr. C. N. Reddy, Ph.D
Director

VLP/CNR

CHEMTEX
Environmental Laboratory
3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121297
Report Date: 12/27/89

RESULTS OF ANALYSIS

Project: Alexandria, Louisiana, L.P. Corp.

Sample Identification: LPAL 02, S. Wall, Soil

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Toluene (mg/kg)*	< 0.05	12/21-22/89 CNR
Ethyl Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Xylene (mg/kg)*	< 0.05	12/21-22/89 CNR
Total Petroleum Hydrocarbons (mg/kg)**	< 10.0	12/21-22/89 CNR

* Analyzed by GC/Purge & Trap/PID
** Extracted by EPA method # 3550 and Analyzed by GC/FID

Dr. C. N. Reddy, Ph.D
Director

VLP/CNR

CHEMTEX
Environmental Laboratory
3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121298
Report Date: 12/27/89

RESULTS OF ANALYSIS

Project: Alexandria, Louisiana, L.P. Corp.

Sample Identification: LPAL 03, E. Wall, Soil

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Toluene (mg/kg)*	< 0.05	12/21-22/89 CNR
Ethyl Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Xylene (mg/kg)*	< 0.05	12/21-22/89 CNR
Total Petroleum Hydrocarbons (mg/kg)**	< 10.0	12/21-22/89 CNR

* Analyzed by GC/Purge & Trap/PID
** Extracted by EPA method # 3550 and Analyzed by GC/FID

CNReddy

Dr. C. N. Reddy, Ph.D
Director

VLP/CNR

CHEMTEX
Environmental Laboratory
3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121299
Report Date: 12/27/89

RESULTS OF ANALYSIS

Project: Alexandria, Louisiana, L.P. Corp.

Sample Identification: LPAL 04, W. Wall, Soil

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Toluene (mg/kg)*	< 0.05	12/21-22/89 CNR
Ethyl Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Xylene (mg/kg)*	< 0.05	12/21-22/89 CNR
Total Petroleum Hydrocarbons (mg/kg)**	< 10.0	12/21-22/89 CNR

* Analyzed by GC/Purge & Trap/PID
** Extracted by EPA method # 3550 and Analyzed by GC/FID

CNReddy

Dr. C. N. Reddy, Ph.D
Director

VLP/CNR

CHEMTEX
Environmental Laboratory
3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121300
Report Date: 12/27/89

RESULTS OF ANALYSIS

Project: Alexandria, Louisiana, L.P. Corp.

Sample Identification: LPAL 05, E. Bottom #2, Soil

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Toluene (mg/kg)*	< 0.05	12/21-22/89 CNR
Ethyl Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Xylene (mg/kg)*	< 0.05	12/21-22/89 CNR
Total Petroleum Hydrocarbons (mg/kg)**	< 10.0	12/21-22/89 CNR

* Analyzed by GC/Purge & Trap/PID
** Extracted by EPA method # 3550 and Analyzed by GC/FID

CNReddy

Dr. C. N. Reddy, Ph.D
Director

VLP/CNR

CHEMTEX

Environmental Laboratory

3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121301
Report Date: 12/27/89

RESULTS OF ANALYSIS

Project: Alexandria, Louisiana, L.P. Corp.

Sample Identification: LPAL 06, W. Bottom #2, Soil

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Toluene (mg/kg)*	< 0.05	12/21-22/89 CNR
Ethyl Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Xylene (mg/kg)*	< 0.05	12/21-22/89 CNR
Total Petroleum Hydrocarbons (mg/kg)**	< 10.0	12/21-22/89 CNR

* Analyzed by GC/Purge & Trap/PID
** Extracted by EPA method # 3550 and Analyzed by GC/FID

CNReddy

Dr. C. N. Reddy, Ph.D
Director

VLP/CNR

CHEMTEX

Environmental Laboratory

3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121302
Report Date: 12/27/89

RESULTS OF ANALYSIS

Project: Alexandria, Louisiana, L.P. Corp.

Sample Identification: LPAL 07, E. Bottom #3, Soil

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Toluene (mg/kg)*	< 0.05	12/21-22/89 CNR
Ethyl Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Xylene (mg/kg)*	< 0.05	12/21-22/89 CNR
Total Petroleum Hydrocarbons (mg/kg)**	< 10.0	12/21-22/89 CNR

* Analyzed by GC/Purge & Trap/PID
** Extracted by EPA method # 3550 and Analyzed by GC/FID

CNReddy

Dr. C. N. Reddy, Ph.D
Director

VLP/CNR

CHEMTEX
Environmental Laboratory
3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121303
Report Date: 12/27/89

RESULTS OF ANALYSIS

Project: Alexandria, Louisiana, L.P. Corp.

Sample Identification: LPAL 08, W. Bottom #3, Soil

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Toluene (mg/kg)*	< 0.05	12/21-22/89 CNR
Ethyl Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Xylene (mg/kg)*	< 0.05	12/21-22/89 CNR
Total Petroleum Hydrocarbons (mg/kg)**	< 10.0	12/21-22/89 CNR

* Analyzed by GC/Purge & Trap/PID
** Extracted by EPA method # 3550 and Analyzed by GC/FID

CNReddy

Dr. C. N. Reddy, Ph.D
Director

VLP/CNR

CHEMTEX
Environmental Laboratory
3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121304
Report Date: 12/27/89

RESULTS OF ANALYSIS

Project: Alexandria, Louisiana, L.P. Corp.

Sample Identification: LPAL 09, N. Bottom #1, Soil

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Toluene (mg/kg)*	< 0.05	12/21-22/89 CNR
Ethyl Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Xylene (mg/kg)*	< 0.05	12/21-22/89 CNR
Total Petroleum Hydrocarbons (mg/kg)**	< 10.0	12/21-22/89 CNR

* Analyzed by GC/Purge & Trap/PID
** Extracted by EPA method # 3550 and Analyzed by GC/FID

CNReddy

Dr. C. N. Reddy, Ph.D
Director

VLP/CNR

CHEMTEX

Environmental Laboratory

3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121305
Report Date: 12/27/89

RESULTS OF ANALYSIS

Project: Alexandria, Louisiana, L.P. Corp.

Sample Identification: LPAL 10, S. Bottom #1, Soil

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Toluene (mg/kg)*	< 0.05	12/21-22/89 CNR
Ethyl Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Xylene (mg/kg)*	< 0.05	12/21-22/89 CNR
Total Petroleum Hydrocarbons (mg/kg)**	< 10.0	12/21-22/89 CNR

* Analyzed by GC/Purge & Trap/PID
** Extracted by EPA method # 3550 and Analyzed by GC/FID

Dr. C. N. Reddy, Ph.D
Director

VLP/CNR

CHEMTEX
Environmental Laboratory
3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121306
Report Date: 12/27/89

RESULTS OF ANALYSIS

Project: Alexandria, Louisiana, L.P. Corp.

Sample Identification: LPAL 11, Backfill Site #1, Soil

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Toluene (mg/kg)*	< 0.05	12/21-22/89 CNR
Ethyl Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Xylene (mg/kg)*	< 0.05	12/21-22/89 CNR
Total Petroleum Hydrocarbons (mg/kg)**	< 10.0	12/21-22/89 CNR

* Analyzed by GC/Purge & Trap/PID
** Extracted by EPA method # 3550 and Analyzed by GC/FID

CNReddy

Dr. C. N. Reddy, Ph.D
Director

VLP/CNR

CHEMTEX
Environmental Laboratory
3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121307
Report Date: 12/27/89

RESULTS OF ANALYSIS

Project: Alexandria, Louisiana, L.P. Corp.

Sample Identification: LPAL 12, N. Wall, Soil

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Toluene (mg/kg)*	< 0.05	12/21-22/89 CNR
Ethyl Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Xylene (mg/kg)*	< 0.05	12/21-22/89 CNR
Total Petroleum Hydrocarbons (mg/kg)**	22.5	12/21-22/89 CNR

* Analyzed by GC/Purge & Trap/PID
** Extracted by EPA method # 3550 and Analyzed by GC/FID

Dr. C. N. Reddy, Ph.D
Director

VLP/CNR

CHEMTEX

Environmental Laboratory

3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121308
Report Date: 12/27/89

RESULTS OF ANALYSIS

Project: Alexandria, Louisiana, L.P. Corp.

Sample Identification: LPAL 13, S. Wall, Soil

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Toluene (mg/kg)*	< 0.05	12/21-22/89 CNR
Ethyl Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Xylene (mg/kg)*	< 0.05	12/21-22/89 CNR
Total Petroleum Hydrocarbons (mg/kg)**	< 10.0	12/21-22/89 CNR

* Analyzed by GC/Purge & Trap/PID
** Extracted by EPA method # 3550 and Analyzed by GC/FID

CNReddy

Dr. C. N. Reddy, Ph.D
Director

VLP/CNR

CHEMTEX

Environmental Laboratory

3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121309
Report Date: 12/27/89

RESULTS OF ANALYSIS

Project: Alexandria, Louisiana, L.P. Corp.

Sample Identification: LPAL 14, E. Wall, Soil

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Toluene (mg/kg)*	< 0.05	12/21-22/89 CNR
Ethyl Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Xylene (mg/kg)*	< 0.05	12/21-22/89 CNR
Total Petroleum Hydrocarbons (mg/kg)**	< 10.0	12/21-22/89 CNR

* Analyzed by GC/Purge & Trap/PID
** Extracted by EPA method # 3550 and Analyzed by GC/FID

CNReddy

Dr. C. N. Reddy, Ph.D
Director

VLP/CNR

CHEMTEX

Environmental Laboratory

3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121310
Report Date: 12/27/89

RESULTS OF ANALYSIS

Project: Alexandria, Louisiana, L.P. Corp.

Sample Identification: LPAL 15, W. Wall, Soil

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Toluene (mg/kg)*	< 0.05	12/21-22/89 CNR
Ethyl Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Xylene (mg/kg)*	< 0.05	12/21-22/89 CNR
Total Petroleum Hydrocarbons (mg/kg)**	< 10.0	12/21-22/89 CNR

* Analyzed by GC/Purge & Trap/PID
** Extracted by EPA method # 3550 and Analyzed by GC/FID

Dr. C. N. Reddy, Ph.D
Director

VLP/CNR

CHEMTEX

Environmental Laboratory

3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121311
Report Date: 12/27/89

RESULTS OF ANALYSIS

Project: Alexandria, Louisiana, L.P. Corp.

Sample Identification: LPAL 16, N. Bottom #4, Soil

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Toluene (mg/kg)*	< 0.05	12/21-22/89 CNR
Ethyl Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Xylene (mg/kg)*	< 0.05	12/21-22/89 CNR
Total Petroleum Hydrocarbons (mg/kg)**	< 10.0	12/21-22/89 CNR

* Analyzed by GC/Purge & Trap/PID
** Extracted by EPA method # 3550 and Analyzed by GC/FID

Dr. C. N. Reddy, Ph.D
Director

VLP/CNR

CHEMTEX 3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121312
Report Date: 12/27/89

RESULTS OF ANALYSIS

Project: Alexandria, Louisiana, L.P. Corp.

Sample Identification: LPAL 17, S. Bottom #4, Soil

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Toluene (mg/kg)*	< 0.05	12/21-22/89 CNR
Ethyl Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Xylene (mg/kg)*	< 0.05	12/21-22/89 CNR
Total Petroleum Hydrocarbons (mg/kg)**	35.2	12/21-22/89 CNR

* Analyzed by GC/Purge & Trap/PID
** Extracted by EPA method # 3550 and Analyzed by GC/FID

CNReddy

Dr. C. N. Reddy, Ph.D
Director

VLP/CNR

CHEMTEX

Environmental Laboratory

3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121313
Report Date: 12/27/89

RESULTS OF ANALYSIS

Project: Alexandria, Louisiana, L.P. Corp.

Sample Identification: LPAL 18, N. Bottom #5, Soil

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Toluene (mg/kg)*	< 0.05	12/21-22/89 CNR
Ethyl Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Xylene (mg/kg)*	< 0.05	12/21-22/89 CNR
Total Petroleum Hydrocarbons (mg/kg)**	< 10.0	12/21-22/89 CNR

* Analyzed by GC/Purge & Trap/PID
** Extracted by EPA method # 3550 and Analyzed by GC/FID

CNReddy

Dr. C. N. Reddy, Ph.D
Director

VLP/CNR

CHEMTEX

Environmental Laboratory

3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121314
Report Date: 12/27/89

RESULTS OF ANALYSIS

Project: Alexandria, Louisiana, L.P. Corp.

Sample Identification: LPAL 19, S. Bottom #5, Soil

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Toluene (mg/kg)*	< 0.05	12/21-22/89 CNR
Ethyl Benzene (mg/kg)*	< 0.05	12/21-22/89 CNR
Xylene (mg/kg)*	< 0.05	12/21-22/89 CNR
Total Petroleum Hydrocarbons (mg/kg)**	< 10.0	12/21-22/89 CNR

* Analyzed by GC/FID
** Extracted by EPA method # 3550 and Analyzed by GC/FID

Dr. C. N. Reddy, Ph.D
Director

VLP/CNR

CHEMTEX
3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Invoice #: 82786

Date Collected: 12/14/89
Date Received: 12/21/89
Chemtex #: 9121296
Report Date: 12/27/89

QUALITY ASSURANCE DATA

	Spike Recovery (%)
Benzene*	86
Toluene*	90
Ethyl Benzene*	90
Xylene*	81
Total Petroleum** Hydrocarbons	103

* Analyzed by GC/Purge & Trap/PID
** Extracted by EPA Method 3550, Analyzed by GC/FID

Date Analyzed/	12/21-22/89
Analyst	CNR

Dr. C. N. Reddy, PH.D
Director

VLP/CNR

CHEMTEX 3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

ANALYSIS REQUEST - CHAIN OF CUSTODY

Client: GEOS

P.O. #:

Address: P.O. BOX: 519
GROVES
TX 77619

Phone #: 409-962-9616

Attn: Mr. Lonnie F. Gallas

Date Collected: 12-14-89

Date Received: 12/21/89

ALEXANDRIA, LOUISIANA L.P. CORP

CHEMTEX #	Sample Identification	Sample Matrix	Analysis Requested
9121296	LPAL-01 N. WALL	Soil	BTEX / TPH
1297	LPAL-02 S WALL		
1298	LPAL-03 E. WALL		
1299	LPAL-04 W. WALL		
1300	LPAL-05 E. Bottom #2		
1301	LPAL-06 W Bottom #2		
1302	LPAL-07 E Bottom #3		
1303	LPAL-08 W. Bottom #3		
1304	LPAL-09 N. Bottom #1		
1305	LPAL-10 S. Bottom #1		
1306	LPAL-11 * Backfill Site #1		
1307	LPAL-12 N. WALL		
TO 1308	LPAL-13 S. WALL		
1309	LPAL-14 E. WALL		
1310	LPAL-15 W. WALL		
1311	LPAL-16 N. Bottom #4		
1312	LPAL-17 S. Bottom #4		
1313	LPAL-18 N Bottom #5		
1314	LPAL-19 S. Bottom #5		

LOUISIANA REQUIREMENTS

Relinquished by: Daniel W. Brewer 12/21/89

Received by: C Heamberger

Date: 12/21/89 1115

GEOS

AN ENVIRONMENTAL MANAGEMENT CORPORATION

Appendix C

Material Receipts

Louisiana-Pacific Corporation

P O Box 7798
Alexandria, Louisiana 71301
318/448-4108

December 18, 1989

GEOS
P.O. Box 519
Groves, Tx 77619

Dear Sirs:

Regarding the disposition of tanks removed from underground on our plant site we submit that:

1. The tanks are to remain on plant site until disposed of.
2. The containinated dirt is to remain on site in a contained area until it passes the test.
3. The products removed from the underground tanks were put in skid tanks on site and will be used in our equipment as needed.

Trusting the above procedures to be in order, I remain,

Yours truly,

M. O. Cody

M. O. Cody
Plant Manager

MOC/sd

GEOS

AN ENVIRONMENTAL MANAGEMENT CORPORATION

Appendix D

Correspondence

GEOS

AN ENVIRONMENTAL MANAGEMENT CORPORATION

September 29, 1989

COPY

Mr. Frank Dautriel
Underground Storage Tank Division
Louisiana Department of Environmental Quality
P.O. Box 44274
Baton Rouge, Louisiana 70804

FOR FAX TRANSMITTAL 1 PAGE

Re: UST Removal Project, Louisiana-Pacific Corporation
Alexandria, Louisiana, UST # 40-010819-28781 thru
-28685

Dear Mr. Dautriel:

In regard to the above referenced project we would like to provide notification of our intent to remove underground tanks at this site on approximately November 1, 1989.

The project will be coordinated by GEOS personnel, who will be responsible for on-site environmental considerations and development of a "Site Assessment and Corrective Action Documentation Report" which will be furnished to your office upon project completion.

We are aware of the necessity to notify the regional office immediately prior to actual site work.

Should this notification not satisfy your requirements, please contact our office by telephone or FAX, if possible, due to the short time frame.

Thank you for your consideration.

For the GEOS Corporation.

Lonnie F. Gallas,
Project Manager

cc: Dr. Jim Boswell, Louisiana-Pacific, Conroe, Texas
Mr. Johnny Mayeux, LaDEQ, Pineville, Louisiana

P.O. Box 519 Groves, Texas 77619 (409) 962-9616 1-800-825-2104 FAX (409) 962-9150

State of Louisiana

Department of Environmental Quality

BUDDY ROEMER
Governor

PAUL TEMPLET
Secretary

October 2, 1989

G.E.O.S.
P.O. Box 519
Groves, Texas 77619

Re: La. Pacific, Inc., 1028 Fenner St.
Alexandria, Louisiana 71306

ATTN: Lonnie Gallas

Dear Mr. Gallas:

This is to acknowledge your letter notifying us of your intent to abandon tanks at the above location. Please note the following procedures for closure as required by current regulations.

Guidelines for permanent closure of underground storage tanks (USTs), may be found in the American Petroleum Institute Publication #1604 or the National Fire Protection Association Handbook #30. The State Fire Marshal's Office must be contacted prior to tank closure, however, in cases where the tanks are located within a city's corporate limits, the local fire department is the appropriate body to contact.

The tank owner/operator must also notify this Division at least thirty (30) days prior to the anticipated UST closure date. In addition, we require the conduction of an assessment within sixty (60) days after closure to ensure that there has not been any release of a regulated substance which may have been stored in the USTs during their operational period. In the case of tank removal, this consists of sampling the native soils obtained at both ends of each tank's elongated portion. For UST closures where groundwater elevations are above the bottom of the UST, soil samples should be collected from the excavation side walls or boring at the uppermost level of the encountered groundwater, so as to sample any possible floating hydrocarbons. For closures where groundwater elevations are below the UST bottom, samples should be taken at a depth of two (2) feet beneath the tank pad backfill material. In multiple UST situations, an adequate number of samples encircling the bed will be acceptable. If the excavated site has already been filled, or if the USTs were abandoned in place by filling them with an inert material, soil corings must be obtained from the area beneath the USTs decscribed above utilizing an auger or similar instrument.

For gasoline USTs, soil samples, must be analyzed for the presence of Benzene, Toluene, Xylene and Ethylbenzene (in mg/kg). For diesel USTS soil samples must be analyzed for total petroleum hydrocarbons. For waste oil USTs, soil samples must be analyzed for E.P. Toxicity Metals, oil and grease, total halogens and volatile organics. For USTs that stored other regulated substances, contact this office for the appropriate analyte.

Upon completion of the closure procedure, the owner is required to submit an amended copy of the Underground Storage Tank Registration Form, results of soil analyses, and a simple sketch of the site depicting the location of the USTs and locations from which samples were obtained. This is necessary to ensure that the tank's status is properly referenced in our data base. If this is not done, the owner will continue to be invoiced annually for the underground storage tank fees.

If you have any questions, please do not hesitate to call me at the central office at (318) 487-5656. Please call me the week prior to anticipated closure so that I may visit the site if my schedule permits.

Thank you for your cooperation in this matter.

Sincerly,

Johnnie L. Mayeux

Johnnie L. Mayeux
Underground Storage Tanks
Central Region
402 Rainbow Dr.
Pineville La. 71360

JM/do

cc: Louisiana Pacific
Alexandria, Louisiana

GEOS

AN ENVIRONMENTAL MANAGEMENT CORPORATION

Addendum to the Site Assessment and Documentation of Corrective Action

for

Louisiana Pacific Corporation
Alexandria, Louisiana
Facility

July, 1990

GEOS

AN ENVIRONMENTAL MANAGEMENT CORPORATION

Table of Contents

Letter of Report

Analytical Results

GEOS

AN ENVIRONMENTAL MANAGEMENT CORPORATION

July 18, 1990

Mr. Frank Dautriel
Underground Storage Tank Division
Louisiana Department of Environmental Quality
P. O. Box 44274
Baton Rouge, Louisiana 70804

Re: Addendum as to disposition of waste soil, Louisiana Pacific Corporation, Alexandria, Louisiana facility, UST ID No. 40-010818-28781 thru -28686. Reference report dated February 19, 1990.

Dear Mr. Dautriel:

We are pleased to submit this addendum on behalf of Louisiana Pacific Corporation in documentation of the dispostion of the waste soils at the above referenced site. Please see the report "Site Assessment and Documentation of Corrective Action, Louisiana-Pacific Corporation, Alexandria, Louisiana, February 1990"; Page 9-CONCLUSION.

> CONCLUSION (copied from the above referenced report)
>
> **At the time of this report, the waste soil removed from the Area #2 tankhold, is being aerated on-site and will be sampled and analyzed upon completion of the aeration procedure. Permission to aerate the waste soil was verbally granted by Mr. Johnnie L. Mayeux of the Louisiana Department of Environmental Quality. An addendum to this report will be submitted with the laboratory results.**

The waste soils from Area #2 were stored on-site and aerated according to the specifications provided in the report dated February, 19, 1990.

P.O. Box 519 Groves, Texas 77619 (409) 962-9616 FAX (409) 962-0158

Mr. Daniel W. Brevard of the GEOS Corporation, was on-site to determine the effectiveness of aeration on July, 7, 1990. After thoroughly scanning the soils with a GAS SYSTEM™ catalytic combustion vapor sensing instrument, it was determined the soils were relatively free of volatile organic compounds.

Two composite samples of the waste soils from Area #2 were collected by Mr. Brevard on July 7, 1990. These samples were preserved and delivered to the laboratory for analysis of TPH and BTEX. The results of these tests are attached, as is the Quality Assurance Data Sheet and chain-of-custody maintained by the laboratory.

Consequential laboratory analyses of the soil samples revealed acceptable levels of BTEX and only minor levels of TPH not exceeding 113 mg/kg.

The soil will be used as fill for the top elevation of the excavated area, thereby continuing the aeration process to further reduce levels of contaminants.

We trust the information contained herein will be sufficient to address your requirements. However, should you or your staff have any questions regarding this project or report, please feel free to contact me directly at (409) 962-9616.

For the GEOS Corporation,

Daniel W. Brevard

Daniel W. Brevard
Project Manager

cc: Dr. Jim Boswell, Louisiana Pacific Corporation, Conroe, Texas
Dr. Suda Bhagwhat, Bhagwat, Inc.
Mr. Johnnie L. Mayeux, LADEQ, Underground Storage Tanks, Pineville LA.

Louisiana Pacific Corporation
Alexandria, Louisiana
Sample Locations & Data

GEOS
AN ENVIRONMENTAL MANAGEMENT CORPORATION

I.D.	Location	Type	Collector	Date	Time
LPAL-20	Waste Soil	Comp	DWB	07-12-89	0935
LPAL-21	Waste Soil	Comp	DWB	07-12-89	0945

GEOS

AN ENVIRONMENTAL MANAGEMENT CORPORATION

Analytical Results

CHEMTEX

Environmental & Industrial Hygiene Services

3082 25th Street Port Arthur, Texas 77642, 409-983-4575
FAX 409-982-1522
800-950-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Report Date: 7/13/90
Invoice #: 83499

Date Collected: 7/12/90
Date Received: 7/12/90
CHEMTEX #: 0071233

Sample Identification: LPAL-20 E. Waste, Soil

RESULTS OF ANALYSIS

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.10	7/12/90 RK/LB
Toluene (mg/kg)*	< 0.10	7/12/90 RK/LB
Ethylbenzene (mg/kg)*	< 0.10	7/12/90 RK/LB
Xylene-Total (mg/kg)*	0.46	7/12/90 RK/LB
Total Petroleum Hydrocarbons (mg/kg)**	< 10.0	7/12/90 RK/LB

* Analyzed by GC/Purge & Trap/PID (EPA Method 8020/5030).
** Extracted by EPA Method 3550, and analyzed by GC/FID.

CNReddy

Dr. C. N. Reddy, Ph.D
Director

CJH/CNR

CHEMTEX

Environmental & Industrial Hygiene Services

3082 25th Street, Port Arthur, Texas 77642, 409-983-4575
FAX 409-982-1522
800-950-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Attn: Mr. Lonnie F. Gallas
Project Manager

Report Date: 7/13/90
Invoice #: 83499

Date Collected: 7/12/90
Date Received: 7/12/90
CHEMTEX #: 0071234

Sample Identification: LPAL-21 W. Waste, Soil

RESULTS OF ANALYSIS

		Date Analyzed/ Analyst
Benzene (mg/kg)*	< 0.10	7/12/90 RK/LB
Toluene (mg/kg)*	< 0.10	7/12/90 RK/LB
Ethylbenzene (mg/kg)*	< 0.10	7/12/90 RK/LB
Xylene-Total (mg/kg)*	0.74	7/12/90 RK/LB
Total Petroleum Hydrocarbons (mg/kg)**	113	7/12/90 RK/LB

* Analyzed by GC/Purge & Trap/PID (EPA Method 8020/5030).
** Extracted by EPA Method 3550, and analyzed by GC/FID.

CNReddy

Dr. C. N. Reddy, Ph.D
Director

CJH/CNR

CHEMTEX
3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Report Date: 7/13/90
Invoice #: 83499

Attn: Mr. Lonnie F. Gallas
Project Manager

CHEMTEX #: 0071233

QUALITY ASSURANCE DATA/SPIKE RECOVERY

	(% Recovery)
Benzene*	94
Toluene*	100
Ethyl Benzene*	96
Xylene-Total*	108
Total Petroleum** Hydrocarbons	93
Date Analyzed/ Analyst	7/12/90 RK/LB

* Analyzed by GC/Purge & Trap/PID (EPA Method 8020/5030).
** Extracted by EPA Method 3550, and analyzed by GC/FID.

CNReddy

Dr. C. N. Reddy, Ph.D
Director

CJH/CNR

CHEMTEX
3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

Client: GEOS Corporation
P. O. Box 519
Groves, Texas 77619

Report Date: 7/13/90
Invoice #: 83499

Attn: Mr. Lonnie F. Gallas
Project Manager

CHEMTEX #: 0071233

QUALITY ASSURANCE DATA/SURROGATE RECOVERY

CHEMTEX #	Sample Identification	4-Bromofuorobenzene* (% Recovery)
0071233	LPAL - 20 E. Waste, Soil	101
0071234	LPAL - 21 W. Waste, Soil	94
	Date Analyzed/ Analyst	7/12/90 RK/LB

* Analyzed by GC/Purge & Trap/PID (EPA Method 8020/5030).

CNReddy

Dr. C. N. Reddy, Ph.D
Director

CJH/CNR

CHEMTEX 3082 25th Street, Port Arthur, Texas 77642, (409) 983-4575

ANALYSIS REQUEST - CHAIN OF CUSTODY

Client: GEOS Corporation

P.O. #:

Address: P. O. Box 519
Groves, Texas 77619

Phone #: 409-962-9616

Date Collected: 7-12-90

Date Received: 7-12-90

CHEMTEX #	Sample Identification	Sample Matrix	Analysis Requested
0071233	LPAL-20 E. WASTE	Soil	BTEX/TPH
0071234	LPAL-21 W. WASTE	"	" "

Relinquished by: Daniel W Bal

Received by: C. Hearnsberger

Date: 7/12/90 2:20

B4759

CHEM-COC-2000

Reference 6

-DRAFT-

CONFIDENTIAL AND PRIVILEGED
ATTORNEY CLIENT COMMUNICATION
ATTORNEY WORK PRODUCT

April 8, 1997

Ms. Lauri Newton
Legal Department
Louisiana-Pacific Corporation
111 SW Fifth
Portland, OR 97204

W.O.# 400-26

RE: Phase I Removal Action Report for PCB Containing Electrical Equipment, Affected Soil and Debris
Louisiana-Pacific Corporation
Alexandria, Louisiana

Dear Ms. Newton:

Legal counsel for Louisiana-Pacific Corporation (L-P) retained ERM-EnviroClean-Southwest, L.L.C. (EnviroClean) to remove and dispose of electrical equipment containing Polychlorinated Biphenyls (PCBs) oil with concentrations greater than or equal to 50 ppm at the L-P idled Alexandria, Louisiana lumber mill. In addition, EnviroClean removed approximately thirty (30) loose cubic yards of PCB affected soil from an isolated area surrounding three transformers. EnviroClean conducted the removal in accordance with the Field Work Plan included as Appendix A. A detailed description of the Phase I Removal Action activities is provided below.

Activities Performed

February 6, 1997

A representative from EnviroClean met with L-P site personnel to discuss the scope of the removal action. Shortly thereafter, the team conducted a brief facility walk through to review the locations of the PCB electrical equipment, soil, and debris. Prior to site mobilization, the City of Alexandria disconnected the electrical service to the mill except for that which was connected to the main office and warehouse/maintenance buildings.

Subsequent to the site walk through, we checked the transformers with a voltage meter to confirm their inactivity. Wires extending from bushings present atop the transformers were disconnected where accessible.

RECEIVED
AUG 25 1999

February 7, 1997

Representatives from EnviroClean met at 0700 to discuss project health and safety issues (i.e. review the Field Work Plan and Health and Safety Plan (HASP)) with the subcontractors. EnviroClean distributed the HASP to the subcontractors for review and acceptance signature.

At 0900, EnviroClean removed the transformers designated as 10A, 11A, and 12A and placed them onto plastic sheeting. At 1000 a transport truck arrived and began to load them along with those currently stored under the cover of a canopy. Transformer 3B had a broken insulator through which a small amount of oil escaped during an initial attempt to load. The transformer was placed on plastic sheeting so the oil could be removed prior to its loading.

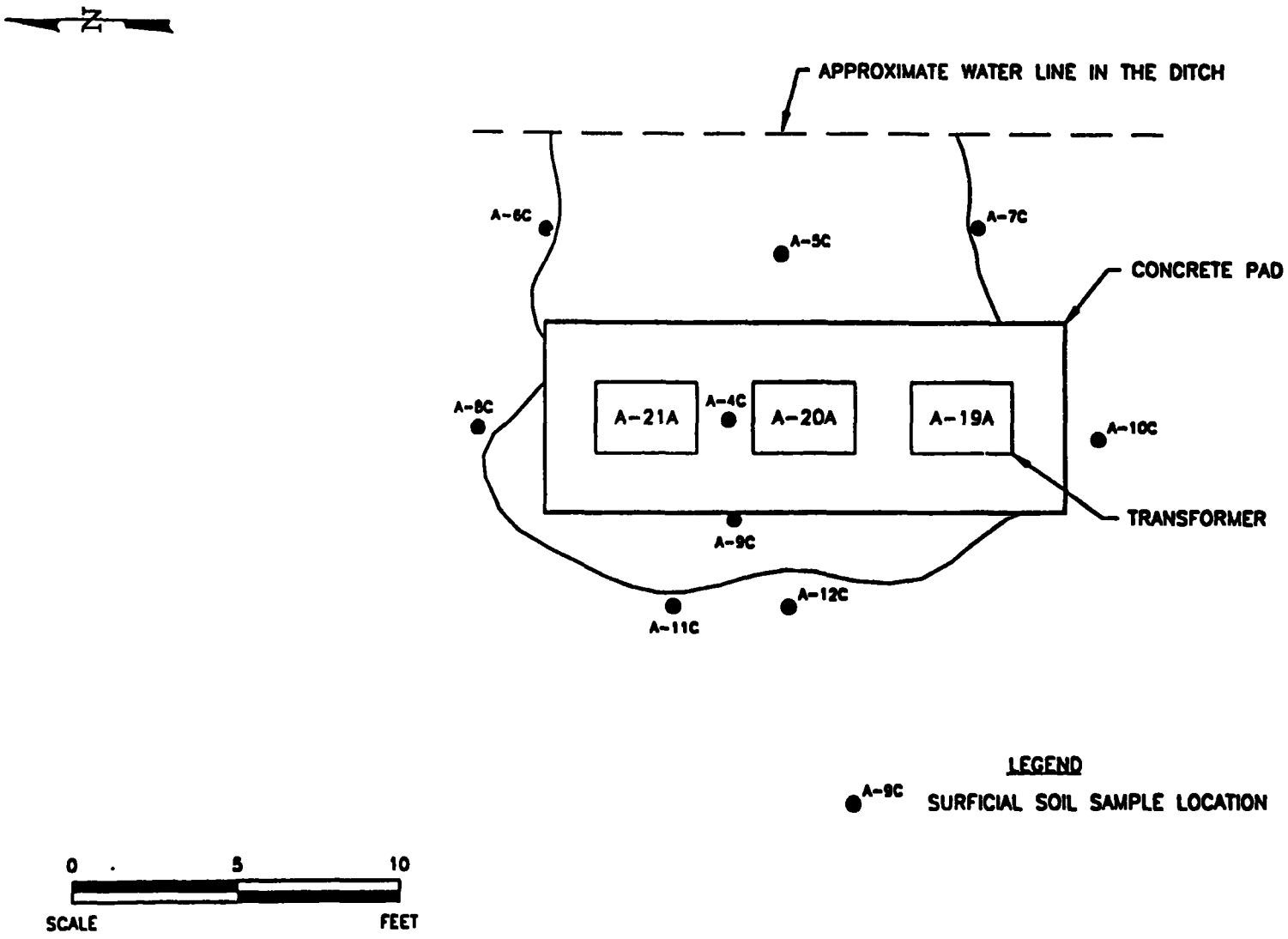
At 1100, the Drop Deck trailer arrived, but could not access the area where transformers 19A-21A were stored. This problem was remedied by positioning a Low-boy trailer adjacent to the transformers, and loading them onto plastic sheeting placed in the trailer bed. The transformers were then transferred to the Drop Deck trailer. For transport off-site, the transformers were removed from the Drop Deck trailer and placed inside a Van.

At 1300, Chemical Waste Management, Inc. delivered the roll-off boxes that we used to store and transport the PCB affected soil and debris.

At 1400, transformers 7A and 8A were loaded onto the Drop Deck trailer and into the Van.

At 2000, the Van left the site for the Chemical Waste Management's disposal facility in Emelle, Alabama. Two transformers (13A and 15A) were unable to be removed because they would have caused the trailer to exceed the Louisiana Department of Transportation and Development (LDOTD) weight restrictions. These transformers were loaded and removed on February 11, 1997 (see below), along with previously drummed PCB capacitors, PCB affected personal protective equipment (PPE), and six empty non-PCB transformer carcasses that were removed from Building 40.

From 1500 to 2000 hours, EnviroClean excavated PCB affected soil and debris from the area immediately beneath and surrounding transformers 19A-21A. Earthen material in this area was moist and stained as a result of decaying wood and naturally occurring organic matter making the determination of affected material difficult. The excavation extended 24 ft north of the City of Alexandria's bank of transformers, and 6 ft north of sampling location shown as A-8C in Figure 1. The reported total PCB concentration of this surficial (0-6") soil sample measured 0.7 ppm.



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ERM.

DATE 02/17/97

W.O.NO.: 34405A02B97

FIGURE 1
PCB SOIL SAMPLING GRID

Louisiana-Pacific Corporation
Alexandria, Louisiana

In the other directions, the excavation proceeded laterally to the sampling locations that had previously been shown not to contain detectable concentrations of total PCBs. Figure 1 displays the locations of the pre-excavation surficial soil sampling locations that encompassed transformers 19A-21A. The excavation depths were determined by visual observation. Depths ranged from 0.5 ft at the northernmost limit of the excavation to 2 ft at the southern boundary as shown in Figure 2.

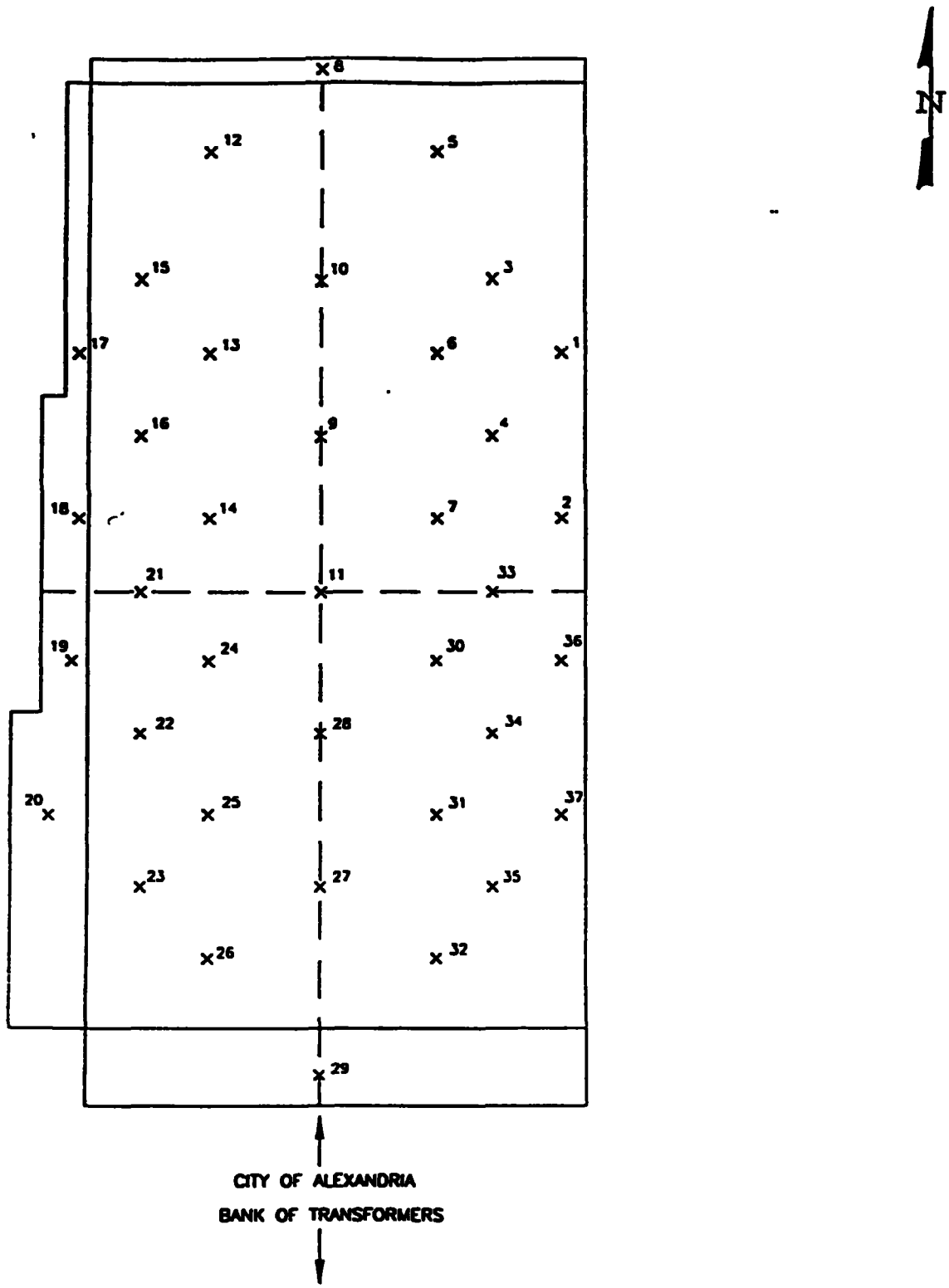
Throughout the course of the removal action, EnviroClean conducted real-time ambient air monitoring to quantify levels of ambient particulate matter since this was the primary exposure pathway. This effort was hampered due to continual light rain. The potential for constituent migration via the air pathway is unlikely due to the saturated condition of the soil. Recorded levels in the immediate area of excavation were 0.01-0.04 mg/m^3 and did not exceed background concentrations collected directly outside the Alexandria site's main office (0.04 mg/m^3).

February 8, 1997

After removing the visibly affected material, EnviroClean established a confirmatory sampling grid at the bottom of the excavation pursuant to criteria listed in the *Field Manual for Grid Sampling of PCB Spill Sites to Verify Cleanup*, (EPA document 560/5-86-017) dated May 1986. The final extent of the excavation measured 24 ft by 13 ft. As a result, 37 sample points were used to confirm acceptable total PCB concentrations in the remaining soils. Sample material was obtained from each location using a disposable polyethylene scoop. From these grab samples, we formed four composites that were submitted to Core Labs in Houston, Texas. In accordance with 40 CFR 761.125(c)(4)(v), soils were decontaminated to less than 10 ppm total PCBs, the most restrictive cleanup criteria typically used for areas with unlimited public access. This standard is much lower than the 25 ppm cleanup criteria established for areas, such as this site, which has restricted public access. Analytical results of the confirmatory samples are included in Appendix B and listed in Table 1 along with the pre-excavation sampling data.

February 11, 1997

EnviroClean arrived at the site at 0700 and met briefly with L-P site personnel to discuss remaining Phase I activities (i.e. loading of two PCB transformers, six drums containing PCB affected PPE and capacitors, and six empty transformer carcasses). EnviroClean placed two additional capacitors, recently located by L-P site personnel, into drums. PPE and plastic used during the project were also drummed at this time.



NOTES.

1. SOIL SAMPLE 14C WAS COMPOSITED FROM LOCATIONS 1–9.
2. SOIL SAMPLE 15C WAS COMPOSITED FROM LOCATIONS 10–18.
3. SOIL SAMPLE 16C WAS COMPOSITED FROM LOCATIONS 14–27.
4. SOIL SAMPLE 17C WAS COMPOSITED FROM LOCATIONS 28–36.

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ERM.

DATE: 02/17/97

W.O.NO.: 34405A04B97

FIGURE 2
PCB SOIL SAMPLING GRID
PHASE I REMOVAL ACTION
Louisiana Pacific Corporation
Alexandria, Louisiana

344-05\10801M

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Table 1
Inventory of Soil Samples
Phase I Removal Action
Louisiana Pacific Corporation
Alexandria, Louisiana
W.O.# 344-05

Sample ID	*Date Sampled*	*Soil Sample Location*	*PCBs** *(ppm)*	*TPH (ppm)*
1C	12/23/96	Northeast Section of Building 40	ND	68
2C	12/23/96	Central Area of Building 40 close to the East Wall	ND	106
3C	12/23/96	Southeast Section of Building 40	ND	42
4C	12/23/96	Above the Concrete Pad present beneath Transformers 19A-21A	191	158,000
5C	12/23/96	East of Transformers 19A-21A along the West Bank of the Ditch	142	64,900
6C	1/16/97	Grid Sample Collected from the Soil Surrounding Transformers 19A-21A	0.29	NA
7C	1/16/97	Grid Sample Collected from the Soil Surrounding Transformers 19A-21A	0.56	NA
8C	1/16/97	Grid Sample Collected from the Soil Surrounding Transformers 19A-21A	0.7	NA
9C	1/16/97	Grid Sample Collected from the Soil Surrounding Transformers 19A-21A	63	NA
10C	1/16/97	Grid Sample Collected from the Soil Surrounding Transformers 19A-21A	ND	NA
11C	1/16/97	Grid Sample Collected from the Soil Surrounding Transformers 19A-21A	ND	NA
12C	1/16/97	Grid Sample Collected from the Soil Surrounding Transformers 19A-21A	ND	NA
13CA	1/16/97	Approximately Half the Distance between the Eastern Edge of the Concrete Pad beneath Transformers 19A-21A and the Water Line in the Adjacent Ditch The Soil was Composited from a Depth Interval 0-6".	19	NA
13CB	1/16/97	See 13CA; However, the Soil was Composited from a Depth Interval 6-12"	3.5	NA
13CC	1/16/97	See 13CC; However, the Soil was Composited from a Depth Interval 12-18".	28	NA
1E	1/16/97	Wipe Sample Collected from the Surface of the Concrete Pad beneath Transformers 19A-21A.	0.163 ug/100 sq.cm	NA
FB1	1/17/97	Field Blank Collected Northwest of the Main Office Building	ND	NA
TB1	1/17/97	Trip Blank	ND	NA
14C	2/8/97	Composite Confirmation Sample Collected from the Bottom of the 2/97 Removal Action.	3.0	NA
15C	2/8/97	Composite Confirmation Sample Collected from the Bottom of the 2/97 Removal Action.	0.4	NA
16C	2/8/97	Composite Confirmation Sample Collected from the Bottom of the 2/97 Removal Action.	ND	NA
17C	2/8/97	Composite Confirmation Sample Collected from the Bottom of the 2/97 Removal Action	2.2	NA

Note.
* - PCB species Arachlor 1260
ND - Indicates the compound was not detected at or above the method detection limit.
NA - Indicates the compound was not analyzed

At 1145, a flat bed trailer arrived on site and began loading the items described above. Approximately one hour later the truck departed and proceeded to the Chemical Waste Management disposal facility in Emelle, Alabama.

EnviroClean then visited a borrow pit in Marksville, Louisiana to sample the potential source of backfill material. The backfill will be analyzed for priority pollutants and total PCBs prior to site restoration.

February 28, 1997

EnviroClean received the results of the backfill analyses from Core Labs. The data indicate that the soil is acceptable for use as backfill. Analytical results are provided as Appendix C and summarized in Table 2.

Summary

The confirmatory soil samples contained total PCBs less than or equal to 3.0 ppm, well below the permissible limit of 10 ppm established by EPA for areas with non-restricted public access. The excavation was backfilled upon receipt of analytical results reporting acceptable concentrations of constituents in the clean backfill source. Prior to commencing backfill, a veneer of lime was placed at the bottom of the excavation to demarcate the boundary between imported and native soils.

It has been a pleasure preparing this report for Louisiana-Pacific. If you have any questions or comments, please call.

Sincerely,

ERM-EnviroClean-Southwest, Inc.

Jonathan M. Beevers

Robert E. Berg, P.E., CHMM

Guy L. Swinford, P.G.
Principal

cc: Barbara J. McGuinness - Louisiana-Pacific Corporation
Brent M. Jones - ERM-EnviroClean-Southwest, L.L.C.

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Table 2
Backfill Analytical Results
Phase I Removal Action
Louisiana-Pacific Corporation
Alexandria, Louisiana

Metals	*Concentration (mg/L)**	*PCBs*	*Concentration (mg/L)*	*Volatiles*	*Concentration (mg/L)*	*Semivolatiles*	*Concentration (mg/L)*
Antimony	ND	Aroclor-1016	ND	Acrolein	ND	Acenaphthene	ND
Arsenic	1.4	Aroclor-1221	ND	Acrylonitrile	ND	Acenaphthylene	ND
Beryllium	ND	Aroclor-1232	ND	Benzene	ND	Anthracene	ND
Cadmium	ND	Aroclor-1242	ND	Bromoform	ND	Benzidine	ND
Chromium	5.1	Aroclor-1248	ND	Carbon tetrachloride	ND	Benzo(a)anthracene	ND
Copper	3.2	Aroclor-1254	ND	Chlorobenzene	ND	Benzo(a)pyrene	ND
Lead	2.6	Aroclor-1260	ND	Chlorodibromomethane	ND	Benzo(b)fluoranthene	ND
Nickel	5.0			Chloroethane	ND	Benzo(ghi)perylene	ND
Selenium	ND			2-Chloroethylvinyl ether	ND	Benzo(k)fluoranthene	ND
Silver	ND			Chloroform	ND	bis(2-Chloroethoxy)methane	ND
Thallium	ND			Bromodichloromethane	ND	bis(2-Chloroethyl)ether	ND
Zinc	10.3			1,1-Dichloroethane	ND	2,2'-oxybis(1-Chloropropane)	ND
				1,2-Dichloroethane	ND	bis(2-Ethylhexyl)phthalate	ND
				1,1-Dichloroethene	ND	4-Bromophenyl phenylether	ND
				trans-1,2-Dichloroethene	ND	Butylbenzyl phthalate	ND
				1,2-Dichloropropane	ND	2-Chloronaphthalene	ND
				cis-1,3-Dichloropropene	ND	4-Chlorophenyl-phenylether	ND
				trans-1,3-Dichloropropene	ND	Chysene	ND
				Ethylbenzene	ND	Dibenzo(a,h)anthracene	ND
				Bromomethane	ND	1,2-Dichlorobenzene	ND
				Chloromethane	ND	1,3-Dichlorobenzene	ND
				Dichloromethane	ND	1,4-Dichlorobenzene	ND
				1,1,2,2-Tetrachloroethane	ND	3,3'-Dichlorobenzidine	ND
				Tetrachloroethene	ND	Diethylphthalate	ND
				Toluene	ND	Dimethylphthalate	ND
				1,1,1-Trichloroethane	ND	Di-n-butyl phthalate	ND
				1,1,2-Trichloroethane	ND	2,4-Dinitrotoluene	ND
				Trichloroethene	ND	2,6-Dinitrotoluene	ND
				Trichlorofluoromethane	ND	Di-n-octyl phthalate	ND
				Vinyl Chloride	ND	1,2-Diphenylhydrazine	ND
						Fluoranthene	ND
						Fluorene	ND
						Hexachlorobenzene	ND
						Hexachloro-1,3-butadiene	ND
						Hexachlorocyclopentadiene	ND
						Hexachloroethane	ND
						Indeno(1,2,3-cd)pyrene	ND
						Isophorone	ND
						Naphthalene	ND
						Nitrobenzene	ND
						N-Nitrosodimethylamine	ND
						N-Nitrosodi-n-propylamine	ND
						N-Nitrosodiphenylamine	ND
						Phenanthrene	ND
						Pyrene	ND
						1,2,4-Trichlorobenzene	ND
						2-Chlorophenol	ND
						2,4-Dichlorophenol	ND
						2,4-Dimethylphenol	ND
						4,6-Dinitro-o-cresol	ND
						2,4-Dinitrophenol	ND
						2-Nitrophenol	ND
						4-Nitrophenol	ND
						4-Chloro-3-methylphenol	ND
						Pentachlorophenol	ND
						Phenol	ND
						2,4,6-Trichlorophenol	ND

Notes
* - Results of the analysis were compared to mean concentrations of elements in samples of soils in the conterminous U S listed in USGS Professional Paper 1270

Field Work Plan

Attachment A

W.O. #344-05
Louisiana-Pacific Corporation
Alexandria, Louisiana

ERM-SOUTHWEST, INC.
3501 N. Causeway Boulevard, Suite 200
Metairie, Louisiana 70002
(504) 831-6700

LOUISIANA PACIFIC, INC
TRANSFORMER AND CONTAMINATED SOIL REMOVAL
FIELD WORK PLAN

SITE DESCRIPTION

The Louisiana Pacific (LP) Site is located in Alexandria, La. at the end of Fenner Street. The facility was formerly a lumber mill and has various building used in day to day operations. Electric power to the facility is currently disconnected to all buildings except the main office buildings.

Transformers are located through out the facility. Twenty One of these transformers have been identified as containing PCB's greater than 50 ppm and 9 of the these transformers have concentrations greater than 500 ppm. These transformers will be removed and disposed of at Chemical Waste Management's facility in Emile, Al.

All of the transformers have been labeled, numbered and tested the non PCB transformers are labeled with a blue sticker and the PCB transformers or labeled with a yellow sticker. The numbers and PCB concentrations of the transformers are included as appendix A of this work plan.

Three of the 21 transformers have leaked in the past or are currently leaking. These transformers are 19A,20A and 21A.

SCOPE OF WORE

The Scope of Work for this project is to remove and dispose of all transformers and approximately 20 to 30 cubic yards of contaminated soil from the three leaking transformers.

TRANSFORMER REMOVAL.

The transformers are to be field checked to verify that all electric power to them is disconnected. They will then be loaded into trailers equipped with drip pans to contain the oil if leakage should occur during transport.

Removal and Loading of the transformers will be provided by B & G Construction, Inc. and transportation and disposal will be provided by Chemical Waste Management, Inc. Both contractors are working under subcontract to ERM. LLC.

Electrical connections to the transformers will be removed and the transformers will be loaded into the trailers using the lifting lugs located on them and suitable lifting equipment (crane or excavator) and lifting aids (steel or nylon slings. high tensile chains).

CONTAMINATED SOIL REMOVAL

The contaminated soil will be loaded into dump lined dump trucks supplied by CWM and transported to Emile, Al. Care will be taken to prevent spillage and dust during the loading procedure.

Once visually contaminated soil has been removed, samples will be taken in the bottom and sides of the excavation by ERM. The samples will be analyzed for PCB concentrations.

Once the samples are taken, 6 mil visqueen will be placed in the excavation and backfill will be placed and compacted with the excavator.

The primary source of PCB exposure to personnel is through inhalation of dust from contaminated soil. Dust will be controlled by spraying with water and limiting the height of the bucket while loading trailers.

After the excavation is complete, the bucket of the excavator will be deconned over plastic to remove all loose soil. This decon process will be performed dry with shovels and rags. Deconned soil and plastic will be loaded into the last truck to leave the site.

Confirmation Sampling Data

Attachment B

W.O. #344-05
Louisiana-Pacific Corporation
Alexandria, Louisiana

ERM-SOUTHWEST, INC.
3501 N. Causeway Boulevard, Suite 200
Metairie, Louisiana 70002
(504) 831-6700

CORELAB

GULF STATES ANALYTICAL

ANALYSIS SUMMARY REPORT

ERM-Southwest, Inc.
3501 N. Causeway, Ste. 200
Metairie, LA 70002

GSA Group: 26942
Date Reported: 02/12/97
Date Received: 02/08/97

Attn: Mr. Robert Berg
Project: LA Pacific

Purchase Order:
Project No.:

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:142987 - 02/08/97 - A-14C				
1216B	Polychlorinated Biphenyls, Solids			
	Aroclor-1016	ND	mg/kg	0.3
	Aroclor-1221	ND	mg/kg	0.3
	Aroclor-1232	ND	mg/kg	0.3
	Aroclor-1242	ND	mg/kg	0.3
	Aroclor-1248	ND	mg/kg	0.3
	Aroclor-1254	ND	mg/kg	0.3
	Aroclor-1260	3.0	mg/kg	0.3
Sample:142988 - 02/08/97 - A-15C				
216B	Polychlorinated Biphenyls, Solids			
	Aroclor-1016	ND	mg/kg	0.3
	Aroclor-1221	ND	mg/kg	0.3
	Aroclor-1232	ND	mg/kg	0.3
	Aroclor-1242	ND	mg/kg	0.3
	Aroclor-1248	ND	mg/kg	0.3
	Aroclor-1254	ND	mg/kg	0.3
	Aroclor-1260	0.4	mg/kg	0.3
ample:142989 - 02/08/97 - A-16C				
216B	Polychlorinated Biphenyls, Solids			
	Aroclor-1016	ND	mg/kg	0.3
	Aroclor-1221	ND	mg/kg	0.3
	Aroclor-1232	ND	mg/kg	0.3
	Aroclor-1242	ND	mg/kg	0.3
	Aroclor-1248	ND	mg/kg	0.3
	Aroclor-1254	ND	mg/kg	0.3
	Aroclor-1260	ND	mg/kg	0.3
ample:142990 - 02/08/97 - A-17C				
216B	Polychlorinated Biphenyls, Solids			
	Aroclor-1016	ND	mg/kg	0.3
	Aroclor-1221	ND	mg/kg	0.3
	Aroclor-1232	ND	mg/kg	0.3
	Aroclor-1242	ND	mg/kg	0.3
	Aroclor-1248	ND	mg/kg	0.3

ANALYSIS SUMMARY REPORT

ERM-Southwest, Inc. GSA Group: 26942

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:142990 - 02/08/97 - A-17C				
1216B	Polychlorinated Biphenyls, Solids			
	Aroclor-1254	ND	mg/kg	0.3
	Aroclor-1260	2.2	mg/kg	0.3

Test Method Summary:
1216B- SW-846 8080A

) - Compound was analyzed but not detected.

Respectfully Submitted,
Reviewed and Approved by:

Lora Dunlap
Project Manager

Backfill Sampling Data

Attachment C

W.O. #344-05
Louisiana-Pacific Corporation
Alexandria, Louisiana

ERM-SOUTHWEST, INC.
3501 N. Causeway Boulevard, Suite 200
Metairie, Louisiana 70002
(504) 831-6700

CORELAB

GULF STATES ANALYTICAL

ANALYSIS SUMMARY REPORT

SRM Enviroclean - Southwest
16300 Katy Freeway, Suite 300
Houston, TX 77094-1609

GSA Group: 27193
Date Reported: 02/28/97
Date Received: 02/15/97

Attn: Mr. Brent Jones
Project: LA Pacific Removal Action

Purchase Order:
Project No.:

Test	Analysis	Results as Received	Units	Limit of Quantitation	Date Extracted/ Analyzed	Analyst
Sample:144230 - 02/14/97 - BB-2						
ICSTQ	Metals by ICP, Solids, Trace					
	Antimony	ND	mg/kg	6.0	02/24/97	CK
	Arsenic	1.4	mg/kg	1.0	02/24/97	CK
	Beryllium	ND	mg/kg	0.5	02/24/97	CK
	Cadmium	ND	mg/kg	5.0	02/24/97	CK
	Chromium	5.1	mg/kg	1.0	02/24/97	CK
	Copper	3.2	mg/kg	1.0	02/24/97	CK
	Lead	2.6	mg/kg	1.0	02/24/97	CK
	Nickel	5.0	mg/kg	2.0	02/24/97	CK
	Selenium	ND	mg/kg	1.5	02/24/97	CK
	Silver	ND	mg/kg	0.5	02/24/97	CK
	Thallium	ND	mg/kg	1.0	02/24/97	CK
	Zinc	10.3	mg/kg	2.0	02/24/97	CK
1216B	Polychlorinated Biphenyls, Solids					
	Aroclor-1016	ND	ug/kg	30	02/18/97	RS
	Aroclor-1221	ND	ug/kg	30	02/18/97	RS
	Aroclor-1232	ND	ug/kg	30	02/18/97	RS
	Aroclor-1242	ND	ug/kg	30	02/18/97	RS
	Aroclor-1248	ND	ug/kg	30	02/18/97	RS
	Aroclor-1254	ND	ug/kg	30	02/18/97	RS
	Aroclor-1260	ND	ug/kg	30	02/18/97	RS
8701L	Volatiles, Priority Pollutant					
	Acrolein	ND	ug/kg	20	02/22/97	CH
	Acrylonitrile	ND	ug/kg	20	02/22/97	CH
	Benzene	ND	ug/kg	5	02/22/97	CH
	Bromoform	ND	ug/kg	5	02/22/97	CH
	Carbon tetrachloride	ND	ug/kg	5	02/22/97	CH
	Chlorobenzene	ND	ug/kg	5	02/22/97	CH
	Chlorodibromomethane	ND	ug/kg	5	02/22/97	CH
	Chloroethane (Ethyl chloride)	ND	ug/kg	5	02/22/97	CH
	2-Chloroethylvinyl ether	ND	ug/kg	5	02/22/97	CH
	Chloroform	ND	ug/kg	5	02/22/97	CH
	Bromodichloromethane	ND	ug/kg	5	02/22/97	CH
	1,1-Dichloroethane	ND	ug/kg	5	02/22/97	CH
	1,2-Dichloroethane	ND	ug/kg	5	02/22/97	CH

ANALYSIS SUMMARY REPORT

ERM Enviroclean - Southwest

GSA Group: 27193

Test	Analysis	Results as Received	Units	Limit of Quantitation	Date Extracted/ Analyzed	Analyst
Sample:144230 - 02/14/97 - BB-2						
8701L	Volatiles, Priority Pollutant					
	1,1-Dichloroethene	ND	ug/kg	5	02/22/97	CH
	trans-1,2-Dichloroethane	ND	ug/kg	5	02/22/97	CH
	1,2-Dichloropropane	ND	ug/kg	5	02/22/97	CH
	cis-1,3-Dichloropropene	ND	ug/kg	5	02/22/97	CH
	trans-1,3-Dichloropropene	ND	ug/kg	5	02/22/97	CH
	Ethylbenzene	ND	ug/kg	5	02/22/97	CH
	Bromomethane (Methyl bromide)	ND	ug/kg	10	02/22/97	CH
	Chloromethane (Methyl chloride)	ND	ug/kg	10	02/22/97	CH
	Dichloromethane	ND	ug/kg	5	02/22/97	CH
	1,1,2,2-Tetrachloroethane	ND	ug/kg	5	02/22/97	CH
	Tetrachloroethene	ND	ug/kg	5	02/22/97	CH
	Toluene	ND	ug/kg	5	02/22/97	CH
	1,1,1-Trichloroethane	ND	ug/kg	5	02/22/97	CH
	1,1,2-Trichloroethane	ND	ug/kg	5	02/22/97	CH
	Trichloroethene	ND	ug/kg	5	02/22/97	CH
	Trichlorofluoromethane	ND	ug/kg	5	02/22/97	CH
	Vinyl chloride	ND	ug/kg	10	02/22/97	CH
1198B	Semivolatiles, PP, Solids					
	Acenaphthene	ND	ug/kg	330	02/20/97	LG
	Acenaphthylene	ND	ug/kg	330	02/20/97	LG
	Anthracene	ND	ug/kg	330	02/20/97	LG
	Benzidine	ND	ug/kg	660	02/20/97	LG
	Benzo(a)anthracene	ND	ug/kg	330	02/20/97	LG
	Benzo(a)pyrene	ND	ug/kg	330	02/20/97	LG
	Benzo(b)fluoranthene	ND	ug/kg	330	02/20/97	LG
	Benzo(ghi)perylene	ND	ug/kg	330	02/20/97	LG
	Benzo(k)fluoranthene	ND	ug/kg	330	02/20/97	LG
	bis(2-Chloroethoxy)methane	ND	ug/kg	330	02/20/97	LG
	bis(2-Chloroethyl)ether	ND	ug/kg	330	02/20/97	LG
	2,2'-oxybis(1-Chloropropane)	ND	ug/kg	330	02/20/97	LG
	bis(2-Ethylhexyl)phthalate	ND	ug/kg	330	02/20/97	LG
	4-Bromophenyl-phenylether	ND	ug/kg	330	02/20/97	LG
	Butylbenzyl phthalate	ND	ug/kg	330	02/20/97	LG
	2-Chloronaphthalene	ND	ug/kg	330	02/20/97	LG
	4-Chlorophenyl-phenylether	ND	ug/kg	330	02/20/97	LG
	Chrysene	ND	ug/kg	330	02/20/97	LG
	Dibenzo(a,h)anthracene	ND	ug/kg	330	02/20/97	LG
	1,2-Dichlorobenzene	ND	ug/kg	330	02/20/97	LG
	1,3-Dichlorobenzene	ND	ug/kg	330	02/20/97	LG
	1,4-Dichlorobenzene	ND	ug/kg	330	02/20/97	LG
	3,3'-Dichlorobenzidine	ND	ug/kg	660	02/20/97	LG

ANALYSIS SUMMARY REPORT

EKM Enviroclean - Southwest

GSA Group: 27193

'est	Analysis	Results as Received	Units	Limit of Quantitation	Date Extracted/ Analyzed	Analyst
ample:144230 - 02/14/97 - BB-2						
198B Semivolatiles, PP, Solids						
	Diethylphthalate	ND	ug/kg	330	02/20/97	LG
	Dimethylphthalate	ND	ug/kg	330	02/20/97	LG
	Di-n-butyl phthalate	ND	ug/kg	330	02/20/97	LG
	2,4-Dinitrotoluene	ND	ug/kg	330	02/20/97	LG
	2,6-Dinitrotoluene	ND	ug/kg	330	02/20/97	LG
	Di-n-octyl phthalate	ND	ug/kg	330	02/20/97	LG
	1,2-Diphenylhydrazine	ND	ug/kg	330	02/20/97	LG
	Fluoranthene	ND	ug/kg	330	02/20/97	LG
	Fluorene	ND	ug/kg	330	02/20/97	LG
	Hexachlorobenzene	ND	ug/kg	330	02/20/97	LG
	Hexachloro-1,3-butadiene	ND	ug/kg	330	02/20/97	LG
	Hexachlorocyclopentadiene	ND	ug/kg	330	02/20/97	LG
	Hexachloroethane	ND	ug/kg	330	02/20/97	LG
	Indeno(1,2,3-cd)pyrene	ND	ug/kg	330	02/20/97	LG
	Isophorone	ND	ug/kg	330	02/20/97	LG
	Naphthalene	ND	ug/kg	330	02/20/97	LG
	Nitrobenzene	ND	ug/kg	330	02/20/97	LG
	N-Nitrosodimethylamine	ND	ug/kg	330	02/20/97	LG
	N-Nitrosodi-n-propylamine	ND	ug/kg	330	02/20/97	LG
	N-Nitrosodiphenylamine	ND	ug/kg	330	02/20/97	LG
	Phenanthrene	ND	ug/kg	330	02/20/97	LG
	Pyrene	ND	ug/kg	330	02/20/97	LG
	1,2,4-Trichlorobenzene	ND	ug/kg	330	02/20/97	LG
	2-Chlorophenol	ND	ug/kg	330	02/20/97	LG
	2,4-Dichlorophenol	ND	ug/kg	330	02/20/97	LG
	2,4-Dimethylphenol	ND	ug/kg	330	02/20/97	LG
	4,6-Dinitro-o-cresol	ND	ug/kg	1,600	02/20/97	LG
	2,4-Dinitrophenol	ND	ug/kg	1,600	02/20/97	LG
	2-Nitrophenol	ND	ug/kg	330	02/20/97	LG
	4-Nitrophenol	ND	ug/kg	1,600	02/20/97	LG
	4-Chloro-3-methylphenol	ND	ug/kg	330	02/20/97	LG
	Pentachlorophenol	ND	ug/kg	1,600	02/20/97	LG
	Phenol	ND	ug/kg	330	02/20/97	LG
	2,4,6-Trichlorophenol	ND	ug/kg	330	02/20/97	LG

est Method Summary:

ANALYSIS SUMMARY REPORT

ERM Enviroclean - Southwest GSA Group: 27193

Test Method Summary:
1198B- SW-846 8270B 1216B- SW-846 8080A 8701L- SW-846 8260A
ICSTQ- SW-846 6010

ND - Compound was analyzed but not detected.

Respectfully Submitted,
Reviewed and Approved by:

Doug Kerley
Project Manager

Reference 7

LOUISIANA-PACIFIC CORPORATION

ENVIRONMENTAL OPERATIONS

FACSIMILE TRANSMITTAL SHEET

TO: LAURI NEWTON	FROM: NEIL SHERMAN
OF:	DATE: 9/1/99
PHONE NUMBER:	TOTAL NUMBER OF PAGES: 7
FAX NUMBER: 225-255-1802	RE: ALEXANDRIA ADDENDUM TO PHASE 1

☐ URGENT ☐ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY

NOTES/COMMENTS:

Lauri:

Attached is the addendum to the Alexandria Phase 1. Let's discuss its context on the conference call tomorrow when we talk with Liz and Jason. What is a good time for you for the call? There was a Phase 1 previously conducted by ERM. Are we including that in the package? Jason will put together a list of the asbestos reports tomorrow.

Neil

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P.O. BOX 158/#1 L-P DRIVE/SAMOA, CA 95564
PHONE:(707)269-7502/FAX:(707)444-3168

ARCADIS GERAGHTY & MILLER

ARCADIS Geraghty & Miller Inc.
1099 18th Street
Suite 2100
Denver
Colorado 80202
Tel 303 294 1200
Fax 303 294 1212

Neil Sherman
Louisiana Pacific Corporation
1 Louisiana Pacific Dr.
Box 158
Samoa, CA 95564

ENVIRONMENTAL

Subject:
Addendum to Phase I Environmental Site Assessment (ESA) Conducted at a Former Louisiana-Pacific Sawmill Facility located in Alexandria, Louisiana

Denver,
21 June 1999

Contact:
Will Huskie

Extension:
303 294 1200

Dear Mr. Sherman:

ARCADIS Geraghty & Miller has completed a Phase I ESA at the former Louisiana-Pacific sawmill facility located in Alexandria, Louisiana. The Phase I ESA Report has been provided to you, and to Mr. Ken Moran of Recycling Services, Inc. Since completion of the report, an additional piece of information was obtained regarding a hardwood lumber dipping process that allegedly took place on the second floor of the sawmill building. Apparently, hardwood lumber was dipped in a trough containing a chemical called Permatox 10-S following initial milling. This chemical was used to prevent staining of the lumber.

The sawmill building has since been removed from the site, and there was no evidence of the dipping operation noted during the site inspection process. This information is provided to you as a follow-up to the Phase I report to ensure completeness. A Material Safety Data Sheet for Permatox 10-S is attached for reference.

Sincerely,

ARCADIS Geraghty & Miller, Inc.

William W. Huskie
Project Scientist/Project Manager

cc: Ken Moran, Recycling Services, Inc.

attachments:

ISK·BIOTECH
Industrial Biocides Division

ISK BIOTECH CORPORATION
6075 Poplar Ave., Suite 306
Memphis, TN 38119
FAX: (901) 683-9475
BUSINESS: (901) 683-9484

EMERGENCY TELEPHONE:
BUSINESS: (901) 344-5300
CHEM TREC: (800) 424-9300

MATERIAL SAFETY DATA SHEET

ISK-BIOTECH PRODUCT NAME:

PERMATOX 10-S

THIS PRODUCT HAS BEEN DISCONTINUED!!

ATTENTION: SAFETY MANAGER
Product Code: 8211
Date of Issue: 12/30/92
EPA Registration Number: 1022-8

MSDS Number: 2001
Date of Last Revision: 01/11/93

I. PHYSICAL AND CHEMICAL CHARACTERISTICS

APPEARANCE AND ODOR: White to buff colored powder with a phenolic odor.
BOILING POINT (INITIAL) (F / C): Decomposes — **DENSITY (Lbs/Gal) (Water @ 20C = 8.33):** 0.00
BOILING POINT (INITIAL) (F / C): Dec/0 — **DENSITY (Lbs/Gal) (Water @20C = 8.33):** 0.00
VAPOR PRESSURE (mm Hg): NIL — **EVAPORATION RATE (nBuAC=1):** >1
VAPOR DENSITY (Air=1): N/A — **% VOLATILE BY WEIGHT:** 10.00
SOLUBILITY IN WATER: Moderate — **SPECIFIC GRAVITY:** 0.00
pH RANGE: 8.70 - 9.70

II. HAZARDOUS INGREDIENTS (See Section X Also)

COMMON NAME	CHEMICAL NAME	C.A.S.#	%	OSHA PEL	ACGIH TLV
Technical Sodium Pentachlorophenate					
	Phenol, Pentachloro-, Sodium Salt *	131-52-2	25-35	0.5 mg/CUM	0.5 mg/CUM
10 MOL Borax	Sodium Borate, Decahydrate @	1303-96-4	50-60	10.0 mg/cum	10.0 mg/CUM
Mineral Spirits	Aliphatic Hydrocarbon Solvent	64742-88-7	1-10	500.0 ppm	100.00 ppm

Ingredients marked with the sign of (@) are hazardous as nuisance dusts in dry or granular products. These ingredients may not present a hazard in liquid products.
Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986, OSHA Hazard Communication Standard 29CFR 1910.2000, and of 40 CFR 372 requires identification of certain toxic chemicals. Any such chemicals contained in this product are listed in Section 2 and are identified by an aster sk (*). This information must be included in all MSDS's that are copied and distributed for this product.

HMIS HAZARD RATINGS
Health Hazard: 3 **Fire Hazard:** 1 **Reactivity:** 0 **Special Hazard:** ---
(Based on the revised National Paint & Coatings Association HMIS Rating System) (1984)

III. HEALTH HAZARD DATA (See Section IX Also)

EMERGENCY AND FIRST AID PROCEDURES:

EYES:
IMMEDIATELY flush eyes with plenty of water for at least 15 minutes holding eyelids apart to ensure flushing of the entire eye surface. Seek medical attention IMMEDIATELY.

INGESTION:
NEVER induce vomiting or give anything by mouth to an unconscious person. Keep airway clear. Drink promptly large quantities of milk or water and induce vomiting by touching the back of the throat with your finger. Repeat until vomit is clear.
Seek medical attention IMMEDIATELY.

NOTE TO PHYSICIAN: This product is a metabolic stimulant. Treatment is supportive. Forced diuresis may be effective to reduce total body burden. Treat hyperthermia with physical measures. Do not administer aspirin, phenothiazines, or atropine, since they may enhance toxicity.

INHALATION:
Persons administering first aid to overexposure victims should carefully wash off any visible product from the victim's face. Do not give anything by mouth to an unconscious person.
Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, administer oxygen. Get medical attention IMMEDIATELY.

SKIN:
Wash with plenty of water. Remove contaminated clothing and footware. Wash clothing and decontaminate footware before reuse. Seek medical attention if irritation persists.

Primary Routes Of Entry: Inhalation Eyes Skin Ingestion

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

EYES:
Can cause severe irritation and irreversible eye damage on prolonged contact.

INGESTION:
Acute Toxicity (Rat): LD50 = 210 mg/kg.
This toxicity data is based on studies conducted on primary raw materials.
Causes weakness, excessive sweating, headache, dizziness, nausea, vomiting, difficulty in breathing.
Symptoms of overexposure include rapid heartbeat and respiration, elevated temperature and blood pressure, muscular weakness, excessive sweating, dizziness, and nausea. High concentrations can cause unconsciousness and death, generally from cardiac arrest.

INHALATION:
Acute Toxicity (Rat): LC50 Greater than 20.0 mg/L.
This toxicity data is based on studies conducted on primary raw materials.
Can cause nasal and respiratory irritation, dizziness, nausea, vomiting, headache, and weakness.
May cause severe irritation to upper respiratory tract.
Symptoms of overexposure are similar to those listed in the Ingestion Section.

SKIN:
Acute Toxicity (Rabbit): LD50 Greater than 200 and less than 2,000 mg/kg.
This toxicity data is based on studies conducted on primary raw materials.
Pentachlorophenol is readily absorbed through the skin, producing the symptoms listed in the Inhalation Section.
In solution, toxic amounts can be absorbed through the skin causing liver, kidney, and central nervous system (CNS) damage. Technical pentachlorophenol contains minute amounts of polychlorodibenzodioxins and polychlorodibenzofurans which are believed to be the compounds that cause the skin condition known as chloracne.
Prolonged or repeated contact may result in severe skin irritation and possible burning.
Prolonged exposure may result in material being absorbed in harmful amounts.
May be fatal if absorbed through the skin.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
Acute or chronic kidney or liver disease, asthma, bronchitis, blood disorders, chronic acne and other skin conditions.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None Known.

LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY: None for product.
SEE SECTION 9 regarding components.

ISK BIOTECH CORPORATION
6075 Poplar Ave., Suite 305
Memphis, TN 38119
FAX: (901) 683-9475
BUSINESS: (901) 683-9484

ISK BIOTECH
Industrial Biocides Division

EMERGENCY TELEPHONE:
BUSINESS: (901) 244-6300
CHEM TREC: (800) 424-9300

MATERIAL SAFETY DATA SHEET

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Degrees F, Method): N/A TCC
FLAMMABLE LIMITS IN AIR (LEL/UEL, % by Volume): Non-Combustible. Limits Not Applicable.
EXTINGUISHER MEDIA: Foam, carbon dioxide, water spray, dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES: Wear MSHA/NIOSH-approved, self-contained breathing apparatus and full protective clothing.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by ignition sources at locations distant from the material handling point.

V. REACTIVITY DATA

STABILITY: Stable. CONDITIONS TO AVOID: High temperatures (Greater than 250F).
INCOMPATIBILITY: Acids, Strong oxidants.
HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, Oxides of Carbon, Polychlorodibenzodioxanes, Polychlorodibenzofurans.
CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: Material is not known to polymerize.

VI. ENVIRONMENTAL PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

SMALL SPILL: Wear appropriate protective clothing (see Section 7).

LARGE SPILL: Wear appropriate protective clothing (see Section 7).
Restrict access to contaminated area. Stop spill at source. Dike to prevent spreading.
Pump liquid to a recovery vessel.
Absorb remainder of material with sand or clay and place in a properly labeled waste receptacle.
Follow all local, state, and federal regulations for disposal. Do not contaminate water while cleaning equipment or disposing of wastes. Prohibit contamination of streams, lakes, or other bodies of water.

WASTE DISPOSAL METHODS: If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. Open dumping is prohibited.
Pesticide wastes are acutely hazardous.
Do not reuse empty container. Triple rinse container (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

VII. SPECIAL PROTECTION EQUIPMENT

VENTILATION REQUIREMENTS: Ventilate via mechanical methods (general or local exhaust) to maintain exposure below TLV(s), if applicable.
Good industrial hygiene practice dictates that indoor work areas should be isolated and provided with adequate local exhaust ventilation.

RESPIRATORY: If TLV for product or any component is exceeded, use a MSHA/NIOSH-approved respirator.

EYE: Wear chemical splash goggles and/or face shield during mixing and when exposed to mist.

GLOVES: Wear impervious gloves, such as: Nitrile Rubber, Neoprene, PVA, PVC, or NBR(Buna-N).
Special precautions should be taken to ensure that material cannot get inside gloves.

OTHER PROTECTIVE EQUIPMENT: Impervious boots (nitrile rubber/neoprene/PVC), aprons, hats, or chemical suits should be worn when necessary to prevent skin contact.
Safety showers and eyewash stations should be provided in all areas in which this product is stored and/or handled. Persons exposed routinely to this material should shower prior to leaving work each day. Work clothing should be changed daily.

VIII. OTHER SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS: Store away from food or feed in a secure, well ventilated area protected from extreme temperatures. Do not transfer to an unmarked container. Keep container closed when not in use.
Do not store or use in the vicinity of sparks, open flame, or other ignition sources.
Observe good personal hygiene practices. Change protective gloves/clothing when signs of contamination appear.
Keep out of reach of children.

OTHER PRECAUTIONS: None.

IX. ADDITIONAL INFORMATION

The U.S. EPA has determined that pentachlorophenol can produce defects in the offspring of laboratory animals. Exposure to pentachlorophenol during pregnancy should be avoided. Exposure by any route to pentachlorophenol may result in the late development of a skin condition known as chloracne. Periodic medical exams are recommended for persons regularly exposed to this product. As part of a settlement agreement between the EPA and the wood treating industry, AWPI, SAWP, and NFPA are required to implement a voluntary Consumer Awareness Program (CAP) to provide consumers with important information regarding the hazards associated with treated wood. Items pressure treated with this product are subject to that CAP. ISK urges you to participate in this program and will provide you detailed information upon request.

NOTE: This product contains trace quantities of Hexa, Hepta, and Octochlorodibenzo-P-Dioxins, as well as Hexa, Hepta, and Octachlorodibenzo Furans and Hexachlorobenzene. The state of California has listed Hexachlorodibenzodioxin and Hexachlorobenzene under Proposition 65 as chemicals known to cause cancer.

OSHA's Hazard Communication Standard, 29 CFR 1910.1200 may require you to distribute this information to your employees and/or customers. If this product is used at locations other than the mailing address shown above, it is your responsibility to promptly distribute this information to that location. Additional copies of the Material Safety Data Sheets are available upon request.

X. SHIPPING INFORMATION

FREIGHT CLASSIFICATION: PRESERVATIVES, WOOD, N.O.I., LIQUID - NMFC 161490

This product is classified for transportation purposes as follows:

	YES	NO
IATA (Air)	X	
IMO (Water)	X	
DOT (Land)	X	

Contact the Transportation Department of ISK-Biotech at (216)-357-4138 for any additional information.

DISCLAIMER STATEMENT:

This information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation or guarantee is made as to it's accuracy, reliability, or completeness. It relates to the specific material designated and may or may not be valid for such material used in combination with any other materials or in any process. All liability for any loss or damage that may occur from the use of this information is disclaimed. It is the user's responsibility to satisfy himself from other sources that this material is suitable for his own particular use. This is neither a license under any applicable patents nor an assurance of freedom from claims under pending or issued patents.

Reference 8

PHASE I
ENVIRONMENTAL SITE ASSESSMENT

Closed Louisiana-Pacific Sawmill Facility
1028 Fenner Street
Alexandria, Louisiana

ARCADIS
GERAGHTY&MILLER

2900 West Fork Drive, Suite 540
Baton Rouge, Louisiana 70827
Tel (225) 292-1004
Fax (225) 292-5210

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LA001846.0001
REPORT

June 14, 1999

ARCADIS GERAGHTY & MILLER

PHASE I
ENVIRONMENTAL SITE ASSESSMENT
CLOSED LOUISIANA-PACIFIC SAWMILL FACILITY
1028 FENNER STREET
ALEXANDRIA, LOUISIANA

June 14, 1999

Prepared by ARCADIS Geraghty & Miller, Inc.

Tim Ratchford
Senior Scientist/Hydrogeologist

Rudy J. Guichard
Associate/Regional Manager

LA001846 0001
ESA/R/61/jst

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FIGURES

1. Site Location Map.

2. Site Layout Map.

APPENDICES

A. Aerial Photograph of Applewhite Property.

B. Site Photographs.

C. Environmental Data Resources Report.

D. Louisiana Department of Environmental Quality UST Closure Correspondence.

1.0 Introduction

ARCADIS Geraghty & Miller, Inc. was retained by Louisiana-Pacific Corporation (L-P) to perform a Phase I Environmental Site Assessment (ESA) of the closed L-P sawmill facility located at 1028 Fenner Street in Alexandria, Louisiana (Figure 1). The L-P sawmill facility includes approximately 52 acres of land (58 acres including the railroad lease area). Four existing buildings remain on site. All other buildings have been demolished (Figure 2). Additionally, the L-P property located adjacent to Applewhite Street was included in this Phase I ESA (Figure 1; Appendix A). Although a formal survey of the L-P Applewhite Property was not available at the time of the site visit, the property is estimated to include approximately 15 acres.

The purpose of the ESA was to identify any "recognized environmental conditions" associated with the property which may have resulted from past or current operations at the site or an adjacent facility. The term "recognized environmental condition" is defined by the American Society for Testing Methods (ASTM) to mean "the presence or likely presence of any hazardous substance or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies."

The ESA was performed in accordance with the guidelines outlined in ASTM Practice E 1527-97 for Phase I Environmental Site Assessment Process. No asbestos, radon, subsurface, surface water or groundwater sampling was conducted during this ESA. This ESA Report is intended to demonstrate that due diligence has been exercised in determining recognized environmental conditions.

The information presented in this report is based upon data acquired during site visits conducted on May 19, 1999 and June 10, 1999 by ARCADIS Geraghty & Miller personnel and interviews with personnel knowledgeable about the facility. Information was also reviewed from historical documents, readily available published documents, and from federal, state, and local regulatory agencies. This report documents the findings of the Phase I ESA.

2.0 Background Information

2.1 Site Description

The L-P closed sawmill facility is located at 1028 Fenner Street, Alexandria, Louisiana. L-P operated a sawmill at this location from 1978 until approximately 1991. When sawmill operations ceased in 1991, the shut-down was thought to be temporary. Therefore, the equipment and approximately 40 buildings at the site were left in tact. The facility was subsequently used as a log storage and transfer station. L-P acquired the facility in 1978 from the Roy O. Martin Lumber Company. Portions of the site were developed as a sawmill by the Roy O. Martin Lumber Company as early as 1923.

The property is surrounded primarily by residential land uses and Interstate 49 (Figures 1 and 2). The topography is flat. The site consists of land totaling approximately 52 acres in area (including the Applewhite Property) and 58 acres including the railroad lease area. Four buildings remain on the property. All other buildings have been demolished. The site layout is included as Figure 2. Site photographs are included in Appendix B.

Electric power, sanitary sewer, water, and natural gas service are provided to the facility by the city of Alexandria.

2.2 Adjacent Land Use

Developments in the immediate vicinity of the site consist of residential land use. Interstate 49 borders the site to the east. A railroad spur runs through the eastern portion of the site.

2.3 Site History

The site history was investigated through review of the following historical sources: aerial photographs, interviews with facility personnel, and information presented in a Phase I ESA conducted by ERM in 1996.

2.3.1 Review of Historic Aerial Photographs

ARCADIS Geraghty & Miller, Inc. reviewed available aerial photographs for the area at the Louisiana Department of Transportation and Development in Baton Rouge, Louisiana. A brief description of the aerial photographs is provided below.

- **1969 Aerial Photograph** - The facility appears to be fully operational. Stacks of lumber are present along the western side of the facility, and stacks of logs are present at the northern end of the facility. Building No. 1 is not present in the 1969 aerial photograph.

- **1978 Aerial Photograph** - As with the 1969 aerial photograph, the facility appears to be fully operational. Stacks of lumber are present along the western side of the facility and at the southwest corner of the facility near the planer mill. Logs are stored at the northern end of the site.

- **1990 Aerial Photograph** - No activity noted at the site. Several small stacks of logs are noted at the northern end of the site. Buildings are still present at the site.

- **1997 Aerial Photograph** - No activity noted at the site. The buildings are still present at the site.

As part of the Phase I Environmental Site Assessment conducted by ERM in 1996, aerial photographs from 1938, 1955, 1971, 1981, and 1990 were obtained from EDR. In addition, Sanborn Fire Insurance maps for the site from the years 1950, 1953, 1963, 1968, and 1975 were reviewed by ERM. Presented below are the results of the ERM evaluation.

- **1938 Aerial Photograph** - Portions of the site, particularly the kilns and cooling buildings located west of the railroad tracks, appear very similar to features observed at the facility during the ERM site visit. The extreme northern and southwestern portions of the site appear to be undeveloped. A large pond is located on the southeast area of the property. The areas south and southeast of the site appear to be utilized for agricultural purposes. A small collection of buildings is located immediately east of the site across the railroad tracks.

Beyond these buildings and to the northeast are agricultural properties. The area west of the site appears to be residential. Based on a review of the photograph, no environmental concerns were apparent to ERM.

- **1955 Aerial Photograph** - The pond previously located on the southeastern portion of the site is no longer present and appears to have been filled. Several buildings have been constructed in this area. Other buildings have been constructed on that area of the site located west of the railroad tracks. The area west of the site continues to be occupied by housing. Housing and industrial development has occurred south of the site. Several ponds are now associated with the collection of buildings located east of the site. The aforementioned agriculture properties located southeast and northeast of the site appear as they did on the 1938 photograph. Based on a review of the photograph, no environmental concerns were apparent to ERM.

- **1971 Aerial Photograph** - The site appears similar to its current configuration. The large planer mill building on the southeast portion of the site has been constructed. In addition, two storage buildings have been constructed immediately north of the site. Areas west and south of the site appear relatively unchanged from those conditions shown on the 1955 photograph. The collection of buildings located immediately east of the site has been expanded and it appears to be some type of commercial facility. The aforementioned ponds on this site are no longer evident. The area beyond this facility to the east that was previously agricultural properties has been developed for commercial use. Based on a review of the photograph, no environmental concerns were apparent to ERM.

- **1981 Aerial Photograph** - The site appears similar to its current configuration. The two storage buildings shown on the 1971 aerial photograph immediately north of the site are not shown on this photograph. The lumber mill site previously located north of the site now appears overgrown. While additional commercial development has taken place east of the site, the collection of buildings located immediately east of the site appears overgrown. The areas west and south of the site appear essentially as they did on the 1971 aerial photograph. Based on a review of the photograph, no environmental concerns were apparent to ERM.

- **1990 Aerial Photograph** - The site appears essentially unchanged from the conditions shown on the 1981 aerial photograph. No environmental concerns associated with the conditions shown on the photograph were identified by ERM.

The evaluation of the Sanborn Fire Insurance maps by ERM indicated that a sawmill and related structures have been located at the site during the period covered by the maps. The related structures have included repair facilities, oil houses, and supply houses. These structures tended to be small and their specific locations changed through the years. No evidence suggesting that wood treating activities were conducted at the site was observed on the aforementioned maps.

2.3.2 Interviews with Facility Personnel

Mr. Dwayne Moses, a former yard worker for L-P who currently maintains the site was interviewed during the site visit. Mr. Moses has worked at the L-P facility for approximately 10 years. Information provided by Mr. Moses is presented in various sections of this report.

3.0 Geological and Hydrogeological Conditions

The closed L-P sawmill property located in Alexandria, Louisiana is situated in Rapides Parish on Quartenary Red River alluvium sediments. The "Site Assessment and Documentation of Corrective Action" report by GEOS (February 1990) associated with UST removal indicated that two separate lithologic units were encountered at the site. The first lithologic unit is comprised of a reddish silty clay with sand laminae truncated by overlaying layers. The second lithologic unit was reached at a depth of seven feet and is comprised of silty clay.

The aquifers in the general area of the property are the Carnahan Bayou Aquifer and the Catahoula Aquifer. The Catahoula Aquifer is the major source of freshwater supply in the area. This aquifer is reached at depths of 1500 to 2000 feet at the project site location. The Catahoula formation is of late Oligocene to early Miocene age and is a fine to medium sand with clay interludes. The Catahoula formation supplies the potable water of the larger communities such as Alexandria.

Storm water runoff at the site is collected by a network of shallow ditches. At the northern portion of the site, storm water is eventually discharged to Mill Bayou. At the southern portion of the site, storm water is discharged to Bayou Roberts which forms the southern boundary of the facility.

Geologic conditions were considered with respect to the presence of radon gas. Radon is a colorless, odorless, radioactive gas that is produced by the natural decay of uranium found in the soil and bedrock. According to the USEPA, the average indoor radon concentration in Rapides Parish is less than 2 picoCuries/liter (pCi/L). The USEPA recommended action level for indoor radon is 4 pCi/L. The remaining buildings at the site do not have a subgrade structure, and radon gas is not considered to be a concern.

4.0 Regulatory Issues

4.1 Federal Records

ARCADIS Geraghty & Miller subcontracted Environmental Data Resources (EDR) to perform a selected federal regulatory agency database search of facilities surrounding the site. The search distances conform to those recommended by the ASTM in document 1527-97 for conducting Phase I Site Assessments. The EDR report is provided as Appendix C. The federal databases that were searched and the search radii are summarized on the following page.

FEDERAL DATABASES	SEARCH DISTANCE
1. National Priorities List (NPL).	1-Mile Radius
2. ROD (NPL Record of Decision)	1-Mile Radius
3. NPL Liens	Target Property Only
4. Delisted NPL	Target Property Only

5.	Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS).	1/2-Mile Radius
6.	CERC-NFARP (CERCLIS-No Further Remedial Action Required)	Target Property Only
7.	CONSENT (CERCLA Consent Decrees)	1-Mile Radius
8.	RCRA-TSD (Resource, Conservation, Recovery Act - Hazardous Waste Treatment, Storage, Disposal Facilities)	1-Mile Radius
9.	RAATS (RCRA Administrative Actions)	Target Property Only
10.	RCRIS (RCRA - Information Systems) Hazardous Waste Small Quantity Generator	1/4-Mile Radius
11.	RCRIS Hazardous Waste Large Quantity Generator	1/4-Mile Radius
12.	CORRACTS (RCRA Corrective Actions)	1-Mile Radius
13.	ERNS (Emergency Response Notifications)	Target Property Only

14.	FINDS (Facility Index System)	Target Property Only
15.	HMIRS (Hazardous Materials Information Reporting)	Target Property Only
16.	MLTS (Nuclear Materials Licensing)	Target property Only
17.	PADS (PCB Activity)	Target Property Only
18.	TRIS (Toxic Chemical Release Inventory)	Target Property Only
19.	TSCA (Toxic Substances Control Act)	Target Property Only

ARCADIS Geraghty & Miller reviewed the federal regulatory database report. The review indicates that the closed L-P sawmill facility is listed on the FINDS database. The site was probably listed on the FINDS database because the facility was formerly a small quantity generator (SQG) of ignitable hazardous wastes. The facility does not currently generate hazardous wastes.

One immediately adjacent facility, the Louisiana Pine Products site, is listed on the CERCLIS database. The Louisiana Pine Products site is approximately 0.2 miles east southeast of the closed L-P sawmill facility. Based on the information in the CERCLIS database, a preliminary assessment of the Louisiana Pine Products site has been conducted. The report titled, "Phase I Environmental Site Assessment - Closed Sawmill Facility Alexandria, Louisiana" by ERM-Southeast, Inc. dated October 1996, provided the following information regarding the Louisiana Pine Products site. Discussions with Mr. Todd Thibodeaux of LDEQ indicated that pine tar had been spilled at the site resulting in obvious staining of the surface soils in the spill area. The spill area was located east of Interstate 49 and soil sampling and analyses were conducted at the time the highway was constructed. The results of the analyses indicated that the area through which the interstate was to be constructed was not affected by the spill. Mr. Thibodeaux stated that the site had been assigned a low

priority by LDEQ. Based on this information, it is not likely that the Louisiana Pine Products site represents a significant environmental concern for the closed L-P sawmill facility.

Five "orphan" sites were identified by EDR on the federal regulatory database report. Sites are referred to as orphan sites because their exact locations could not be identified by EDR, due to poor address information in the databases. Three of these sites were on the FINDS database and two sites were on the ERNS database. Because these sites are not located adjacent to the subject site, no related impacts are expected.

4.2 State Records

ARCADIS Geraghty & Miller subcontracted EDR to perform a selected state regulatory agency database search of facilities surrounding the site. The search distances conform to those recommended by the ASTM in document 1527-97 for conducting Phase I Site Assessments. The EDR report is provided as Appendix B. The state databases that were searched and the search radii are summarized below.

STATE DATABASES	SEARCH DISTANCE
1. SHWS (Hazardous Sites Cleanup List)	1-Mile Radius
2. SWF/LF (Solid Waste Inventory List)	1/2-Mile Radius
3. UST (Registered Underground Storage Tanks List)	1/4-Mile Radius
4. LUST (Leaking Underground Storage Tank List)	1/2-Mile Radius

5. AST (Registered Aboveground Storage

Tank List) 1/8-Mile Radius

A review of the state database search indicated that the closed L-P sawmill facility is listed on the state regulatory database. The closed L-P sawmill facility is listed on the database of registered USTs. The UST database information indicated that five registered USTs were located at the site and that all of these have been removed. The removal of the USTs is consistent with information obtained from L-P files. Additionally, details concerning the closure of the tanks (closure methodology, analytical data, etc.) are included in the report titled, "Site Assessment and Documentation of Corrective Action" by GEOS dated February 1990, and in the report entitled, "Addendum to the Site Assessment and Documentation of Corrective Action" by GEOS dated July, 1990. The reports rendered an opinion that no further assessment and/or remediation were warranted at this site.

Three other immediately adjacent facilities within the specified search areas were identified on the state regulatory database. These include the Louisiana Pine Products site (discussed under the Federal Database section), the Ruston Foundry & Machine Shop site, and the Missouri-Pacific Railyard Terminal road site which were listed on the SHWS database. The Ruston Foundry & Machine Shop site is located approximately 0.6 miles northeast of the closed L-P sawmill facility; the Missouri-Pacific Railyard Terminal road site is located approximately 0.5 to 1 mile south of the closed L-P sawmill facility. Because of the distance of these two sites from the closed L-P sawmill facility, these sites are not an apparent environmental concern.

Two "orphan" sites were identified by EDR on the state regulatory database report. One of these sites was on the SHWS database and the other site was on the UST and LUST databases. Because these sites are not located adjacent to the subject site, no related impacts are expected.

5.0 Site Reconnaissance

The closed L-P sawmill property was visited by representatives of ARCADIS Geraghty & Miller on May 19 and June 10, 1999. An interview regarding the site was conducted at the facility with Mr. Dwayne Moses, a former yard worker for L-P who currently maintains the site. After the interview, Mr. Dwayne Moses conducted

a tour of the property with the ARCADIS Geraghty & Miller representatives. Photographs documenting the site visit are provided in Appendix B. The site layout is included as Figure 2. An aerial photograph of the Applewhite Property is included as Appendix A. The building numbers referenced below are taken from Figure 2.

The closed L-P sawmill property consists of land totaling approximately 52 acres in area (including the Applewhite Property) and 58 acres including the railroad lease area. Four buildings remain at the site. All other buildings have been demolished. A general description of the four remaining buildings is included below.

Building No. 1 (Mechanic Shop) - This structure consists of a wood frame building with corrugated metal siding and roof on a concrete slab. The shop was previously used to maintain trucks, log machines, and forklifts. A sump "oil change pit" where oil change activities took place was observed in this shop. An oil substance was observed in the bottom of the sump. Two drums containing used oil filters and one drum containing grease were also observed within the building. A motor oil aboveground storage tank (AST) and a hydraulic oil AST were observed near the north wall of the building. A small storage room was located in the south west corner of the building and contained miscellaneous parts, cans of xylene and contact adhesive, air filters, cleaning fluids, and paint cans. Approximately 17 drums (most containing oil) were observed in or adjacent to the shop under a corrugated metal roof covered storage area located on the north side of the building. Oil staining on portions of the concrete in this area was observed. Several cracks in the concrete slab were also observed at this area. Vegetation surrounding this area appeared healthy. An additional storage room was located on the south side of the main building and contained approximately 50 large tires. Former ASTs were located directly to the north of Building No. 1, as evidenced by the remaining metal holds.

Building No. 2 (Machine Shop) - This structure is built with cinder block walls on one side and wood frame and corrugated metal on three sides of the building. The building has a corrugated metal roof and a concrete slab floor. A diesel fuel AST (approximately 50 gallons), one large tire, miscellaneous parts, and one drum of drill oil, one drum of grease, and three drums of unknown contents were observed within this portion of the building. Portions of the concrete within this portion of the building were stained.

A large room in the building, adjacent to the machine shop, was referred to as the "Supply House". Materials observed within this room included extra parts for the sawmill (bearings, bolts, etc.). A smaller storage room was located within the

supply house and contained many parts, paint cans, and spray paint containers. Power Belt Treatment (1,1,1-trichloroethane) containers were also observed within this area. A room referred to as the "receiving department" was located within the building and one can of starting fluid was observed in this area. A room on the north side of the building was being used as storage and included file cabinets, fire extinguishers, and electrical components.

According to Mr. Moses, former USTs were located directly to the east of Building No. 2. Details concerning the closure of the tanks (closure methodology, analytical data, etc.) are included in the report entitled, "Site Assessment and Documentation of Corrective Action" by GEOS dated February 1990. The report rendered an opinion that no further assessment and/or remediation were warranted at this site.

Building No. 2A (Office Building) - This building is currently being used as office space. A dumpster was located at the front of the building.

Building Nos. 33, 34, and 35 (Planer Mill and associated buildings) - This is a large structure consisting of corrugated metal sides and roof on a steel frame with a concrete slab floor. An electrical conduit was located within the concrete floor of the mill. According to Mr. Moses, the USTs removed from the area of Building No. 2 were stored above ground directly east of Building No. 34. Details concerning the closure of the tanks (closure methodology, analytical data, etc.) are included in the report titled, "Site Assessment and Documentation of Corrective Action" by GEOS dated February 1990, and in the report titled, "Addendum to the Site Assessment and Documentation of Corrective Action" by GEOS dated July, 1990. The reports rendered an opinion that no further assessment and/or remediation were warranted at this site.

As noted previously, most of the other buildings and structures have been demolished at the site. The concrete slabs which mark the former building locations still remain. Additional general observations during the site reconnaissance of these areas are included below.

A small pond was located at the northern perimeter of the site. This pond was used for water supply for the wet storage of logs when the sawmill was operational.

A "power house" (Building No. 10) was used to produce electricity and included associated boilers, kiln areas, and a cooling tower. Mr. Moses reported that

electrical transformers containing PCBs were historically used in this area and that subsequent remediation of PCB-impacted soils in this area had been conducted. The report titled, "Waste Removal Action and Disposal" by ERM dated September 18, 1997 includes more detailed information concerning the removal of PCB-containing materials from this area. Reports titled, "Phase I Removal Action Report for PCB Containing Electrical Equipment" by ERM, April 8, 1997 and " Site Investigation Summary for Potential TSCA Regulated Electrical Equipment" by ERM dated April 8, 1997 include documentation concerning the PCB investigation and remediation. According to these reports, all electrical equipment containing PCBs at concentrations greater than 50 parts per million (ppm) were removed from the facility. In addition, approximately 30 yards of PCB affected soil were removed. The reports indicate that confirmation soil samples were collected and analyzed from the area after soil removal activities were completed. The confirmation analytical data indicated that PCB concentrations were less than or equal to 3.0 ppm.

Two existing water wells were observed near the former locations of Building No. 10 and the Fuel House Building.

A mound of dirt and chips of concrete associated with log run repair is located approximately 150 yards west of Building No. 34 (Planer Mill). Mr. Moses indicated that this area contains pieces of concrete that have been stored at this location.

During the site reconnaissance, Mr. Moses noted that some remedial activity had taken place in Building No. 40. The report titled, "Soil Removal Report for Alexandria Sawmill" by ALTEC Environmental Consultants, Inc. dated April 7, 1998, includes more detailed information concerning the removal of contaminated soil located in Building 40. The report stated that the analytical results for samples taken at the corners of the building were within the risk-based criteria used for industrial sites under Louisiana Department of Environmental Quality (LDEQ) regulations.

The L-P Applewhite Property is located directly across from the closed sawmill property on the east side of Interstate 49 (Figure 1; Appendix A). A survey of the property was not available at the time of the site visit and the approximate property boundary was shown to the ARCADIS Geraghty & Miller representative by Mr. Moses. According to Mr. Moses, the property totals approximately 15 acres. The Applewhite Property is bordered by Applewhite Street to the east, a railroad track to the north, vacant land to the south, and vacant land and Interstate 49 to the west. Adjacent land use in the immediate vicinity of the site includes residential land use

to the north, Ash Grove Cement to the east, Alexandria Seed Property to the south and west, and vacant land and Interstate 49 to the west.

The Applewhite Property was used as log storage by L-P. The property was formerly used by Roy O. Martin as a chipping and sawmill. No buildings currently exist on the property. The only remnants of structures at the site are concrete footings for a crane and concrete structures where the old sawmill was located. Several concrete paved areas transect the property and were formerly used for log storage. A pond that was used for watering logs is located on the eastern portion of the property adjacent to Applewhite Street.

Some illegal dumping of residential garbage has taken place at the property. The following items were observed: household appliances, electronic equipment, broken concrete and bricks, wood, and roofing felt and shingles. The shingles appeared to be relatively new and not previously used.

According to Mr. Moses, no spills or leaks have occurred at the property. No visual evidence of staining of soils or concrete was observed. Vegetation has overgrown the property, including many willow trees, and appears to be healthy.

5.1 Materials Management

In addition to the materials observed at the site during the site reconnaissance, a review of previous environmental reports for the site provides some perspective on the historical materials management at the site. The report titled, "Phase I Environmental Site Assessment - Closed Sawmill Facility Alexandria, Louisiana" by ERM-Southeast, Inc. dated October 1996, provided the following information regarding materials used at the site. Materials used when the sawmill was operational included equipment maintenance materials such as motor oil, hydraulic fluid, and paints. Motor oil and hydraulic fluid were stored in two 250-gallon ASTs located inside the maintenance shop. Used oil was placed in 55-gallon drums and stored on a concrete pad adjacent to the maintenance shop. The used oil was periodically removed by a waste oil contractor. Used oil filters were shipped to the L-P facility located in Urania, Louisiana. Off-road diesel fuel and gasoline were stored in two 1,000-gallon ASTs at the site. The ASTs were located on a concrete slab and were surrounded by a low earthen berm. Over-the-road diesel fuel was stored in 55-gallon drums located on the concrete pad adjacent to the maintenance shop. Additional drums of materials of unknown contents, and some containing water treatment chemicals, were also observed at the site.

5.2 Waste Management

5.2.1 Hazardous Waste

The facility is currently closed and no hazardous waste is generated at the site. Areas of the site that have been impacted by PCBs or petroleum products have been remediated, as described in documentation provided to ARCADIS Geraghty & Miller.

5.2.2 Solid and Conventional Waste

Because the site is closed, the only non-hazardous wastes generated at the facility include conventional trash, including wood, paper, and general office trash. Conventional trash is placed in a dumpster and removed for proper disposal. As noted previously, used oil filters generated when the site was active were drummed and shipped to L-P's Urania, Louisiana facility. Used oil was picked up for recycling by Deep South Marketing.

5.2.3 Waste Water

Sanitary waste water from the sinks and restrooms located in the office building is the only type of waste water currently generated at the facility. This wastewater is discharged to the city of Alexandria's sanitary sewer system. Previous wash water from the steam cleaning pad located adjacent to the maintenance shop was discharged via surface water runoff to a nearby ditch that runs along the site's property boundary.

5.2.4 Storm Water

The L-P facility currently has a NPDES Storm Water Permit. A copy of the permit was not available at the time of the walk through. However, Mr. Moses provided ARCADIS Geraghty & Miller with a laboratory report from a recent sampling event which indicates that storm water samples are collected and analyzed for BOD, Total Suspended Solids, pH, and Total Settleable Solids.

5.2.5 Air Emissions

No air emissions are currently generated at the site.

5.3 Storage Tanks

5.3.1 Underground Storage Tanks

Five USTs were removed from the site in December 1989. These included one 6,000-gallon tank and two 2,000-gallon tanks used to store diesel fuel, a 2,000-gallon tank used to store gasoline, and a 550-gallon tank used to store kerosene. The kerosene, gasoline, and the 6,000-gallon diesel USTs were located near the maintenance shop. The two 2,000-gallon diesel USTs were located near the northeast corner of the planer mill.

According to Mr. Moses, the USTs removed from near the maintenance shop were stored above ground directly east of Building No. 34. Details concerning the closure of the tanks (closure methodology, analytical data, etc.) are included in the report titled, "Site Assessment and Documentation of Corrective Action" by GEOS dated February 1990, and in the report entitled, "Addendum to the Site Assessment and Documentation of Corrective Action" by GEOS dated July, 1990. The reports rendered an opinion that no further assessment and/or remediation were warranted at this site. A correspondence from the Louisiana Department of Environmental Quality (LDEQ) indicating acceptance of the closure reports is provided with the ERM report. A copy of the LDEQ correspondence is presented under Appendix D of this report.

No USTs were observed during the site visit.

5.3.2 Aboveground Storage Tanks

The site currently has three aboveground storage tanks (ASTs). Two 250-gallon containment bulk oil (lubricating and hydraulic) tanks are located in Building No. 1. One 100,000-gallon elevated water tower is located near the center of the property. Previous ASTs at the site included:

- one 1,000-gallon diesel fuel tank;
- one 1,000-gallon gasoline tank; and
- one boiler make-up water tank estimated to be 10,000 gallons.

5.4 Asbestos-Containing Materials

Asbestos-containing materials were present at the site when the facility was operational. However, asbestos-containing materials have been removed during demolition activities at the site and documentation of the removal is contained in the Asbestos Assessment and Abatement reports prepared by ALTEC Environmental Consultants in 1997 and 1998.

No suspect asbestos-containing materials were observed during the site visit.

5.5 Polychlorinated Biphenyls

Transformers or other electrical equipment that may contain polychlorinated biphenyls (PCBs) have been used at the site. These include the following pad-mounted and pole-mounted transformers:

- four pole-mounted units at the facility's office;
- three pole-mounted units at the north side of the planer mill;
- three pole-mounted units at the west side of the kilns;
- nine pad-mounted units at the sawmill;
- seven pad-mounted units at the power house;

- three pad-mounted units at the planer mill; and

- three pad-mounted units at the inspection station.

At one time, PCB-containing capacitors were associated with some of the sawmill's electrical equipment.

A "power house" (Building No. 10) was used to produce electricity and included associated boilers, kiln areas, and a cooling tower. Mr. Moses reported that electrical transformers containing PCBs were historically used in this area and that subsequent remediation of PCB-impacted soils in this area had been conducted. The report titled, "Waste Removal Action and Disposal" by ERM dated September 18, 1997, includes more detailed information concerning the removal of PCB-containing materials from this area. Reports titled, "Phase I Removal Action Report for PCB Containing Electrical Equipment" by ERM, April 8, 1997 and " Site Investigation Summary for Potential TSCA Regulated Electrical Equipment" by ERM dated April 8, 1997 include documentation concerning the PCB investigation and remediation. According to these reports, all electrical equipment containing PCBs at concentrations greater than 50 parts per million (ppm) were removed from the facility. In addition, approximately 30 yards of PCB affected soil were removed. The reports indicate that confirmation soil samples were collected and analyzed from the area after soil removal activities were completed. The confirmation analytical data indicated that PCB concentrations were less than or equal to 3.0 ppm.. The only transformers noted during the walk through were four pole-mounted transformers located between buildings 1 and 2. The transformers were labeled as "non-PCB" containing transformers.

5.6 Floor Drains and Sumps

The facility does not have and, according to Mr. Moses, has not previously had any floor drains. However, as noted previously, a sump "oil change pit" was observed in Building No. 1 (Mechanic Shop).

5.7 Spills

According to Mr. Moses, no documented spills are known to have occurred at the site. However, as previously noted, PCB impacted areas of the site and petroleum

impacted areas of the site have been apparently remediated based on information provided for review to ARCADIS Geraghty & Miller.

5.8 Dumping

A mound of dirt and chips of concrete associated with log run repair is located approximately 150 yards west of Building No. 34 (Planer Mill). Mr. Moses indicated that this area contains pieces of concrete that have been stored at this location.

5.9 Sensitive Receptors and Environments

According to the EDR report, the nearest public water supply to the site is located 1 - 2 miles to the north. No major violations or enforcement has been reported for this public water supply system.

6.0 Conclusions and Recommendations

ARCADIS Geraghty & Miller has completed a Phase I ESA of the closed L-P sawmill facility located at 1028 Fenner Street, Alexandria, Louisiana. The closed L-P sawmill facility property has been developed since 1923. Previous operations at the subject site during this period have created several recognized environmental conditions. However, based on documentation provided for review to ARCADIS Geraghty & Miller, it appears that most recognized environmental conditions resulting from historical operations at the subject site have been remediated. Based on the site visit and a review of information concerning the property, the following environmental concerns associated with the subject site were identified:

- The site has a sump "oil change pit" located in Building No. 1 which contains an oil substance.

- Several drums containing used oil filters, grease, oil, and a motor oil AST and a hydraulic oil AST are located in Building No. 1.

- Evidence of spills of petroleum products inside of Building No. 1 and adjacent to the building under a roof covered storage area was observed. Although these areas have a concrete slab floor, evidence of cracks in the concrete slab were observed.

7.0 Disclaimer

The evaluations and recommendations presented in this Assessment are based exclusively on information provided by facility personnel, available public records, and visual observations made during the site tour. No quantitative field activities were conducted, and no laboratory analyses were performed by ARCADIS Geraghty & Miller during the Phase I Assessment. In preparing this report, ARCADIS Geraghty & Miller has accepted as true the information provided by representatives of L-P. ARCADIS Geraghty & Miller warrants that the services performed were conducted in accordance with sound consulting practices and procedures prevailing at the time the service was performed. ARCADIS Geraghty & Miller cannot warrant the actual site conditions described in the report beyond matters amenable to visual confirmation within the limits of this site inspection program.

8.0 References

ALTEC Environmental Consultants 1997 and 1998. Asbestos Assessment and Abatement Reports.

ALTEC Environmental Consultants 1998. Soil Removal Report for Alexandria Sawmill, April 7, 1998.

ERM 1997. Waste Removal Action and Disposal. September 18, 1997.

ERM 1997. Phase I Removal Action Report for PCB Containing Electrical Equipment.

ERM 1997. Site Investigation Summary for Potential TSCA Regulated Electrical Equipment.

GEOS 1990. Site Assessment and Documentation of Corrective Action for Louisiana-Pacific Corporation, Alexandria, Louisiana. February 1990.

GEOS 1990. Addendum to the Site Assessment and Documentation of Corrective Action for Louisiana-Pacific Corporation, Alexandria, Louisiana Facility. July 1990.

Moses, Dwayne, 1999. On-site Maintenance Worker for Louisiana-Pacific Corporation. Personal communication to Tom Isacks , ARCADIS Geraghty & Miller, Inc. May 19, 1999.

Reference 9

ALTEC
ENVIRONMENTAL CONSULTANTS, INC.

April 7, 1998

Mr. Jason T Sanders, Project Manager
Environmental Affairs
Louisiana Pacific Corporation
P O Box 3107
Conroe, Texas 77305

Re: Soil Removal Report for Alexandria Sawmill

Dear Mr. Sanders·

On February 25, 1998, the contaminated soil located in Building 40 at the Alexandria Sawmill was removed. The following is a sequence of events that was performed·

- Prior to the February 25, Louisiana Pacific Corporation employees had piled the soil onto plastic in the center of the building.
- Roy Dowling (Project Engineer) and Bryan Artley (Technician) from ALTEC Environmental Consultants, Inc. arrived on the job site at 7:30 a.m.
- At 7·30 a.m two twenty-five yard dump trucks arrived from Murphy Brothers Trucking. The drivers lined the dump beds with poly and waited for the trucks to be loaded.
- Louisiana Pacific employees loaded the contaminated soil into the trucks using an on-site front-end loader.
- The first truck was loaded with approximately 24 cubic yards of contaminated soil around 8 40 a.m
- The second truck was loaded with approximately 24 cubic yards of contaminated soil around 9:40 a.m. The second load was obtained from the remaining material on the building floor and the soil excavated on the east and south sides of the building slab
- ALTEC manifested each load and had the material disposed of at the Magnolia Landfill located in Monroe, Louisiana. The original analytical profile and disposal documentation is included in Appendix A.

9300 Mansfield Road, Suite 204 • PO Box 17867 • Shreveport, LA 71138-0867 • Bus (318) 687-3771 • Fax (318) 687-9923

- ATLEC took clearance samples on the southeast and northeast corners of the building. These sample locations were chosen due to the natural runoff of the adjacent area. The analytical results for the southeast sample were TPH = 28 2 ppm and below detection limit for TPH-diesel, and the northeast sample results were TPH = 54 9 ppm and below detection limit for TPH-diesel. These samples are within the risk-based criteria used for industrial sites under Louisiana Department of Environmental Quality regulations The normal background for the site is 48.3 ppm for TPH The analytical results are provided in Appendix B.
- Pictures were taken during the entire project and are included for the project log. The photographs are shown in Appendix C.

ALTEC appreciates this opportunity of providing environmental services for your facilities. If you have any questions, please contact me at (318) 687-3771

Sincerely,

Roy W. Dowling

Roy W. Dowling, PhD
Environmental Engineer

GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

Profile Number WMNA № 60947

Service Agreement on File? ☐ YES ☐ NO

Renewal Date: ___/___/___

This form is to be used to comply with the requirements of governmental waste screening criteria

A. Waste Generator Information

1 Generator Name: LOUISIANA PACIFIC CORPORATION
2 SIC Code: ___
3 Facility Street Address: 1020 FENNER STREET
4 Phone (409) 788-9723
5 Facility City: ALEXANDRIA
6 State/Province: LA
7 Zip/Postal Code: 71301
8. Generator USEPA/Federal ID #: ___
9. Country: RAPIDES PARISH
10. State/Province ID #: ___
11 Customer Name: ALTEL ENVIRONMENTAL CONSULTANTS
12 Customer Phone: (318) 627-3771
13. Customer Contact: ROY W. DOWLING
14 Customer Fax: (318) 627-9923

B. Waste Stream Information

1. Name of Waste: CONTAMINATED SOIL
2 State Waste Code: ___
3. Process Generating Waste: SOIL UNDERNEATH MAINTENANCE BUILDING WHERE VARIOUS MOTOR POOL ACTIVITIES OCCURED

4 Waste Category

- ☐ Asbestos Containing Material
- ☐ Chemical Containing Equipment
- ☐ De-characterized Waste
- ☐ Demolition Debris
- ☐ Incinerator Ash
- ☐ Industrial Process Waste
- ☐ Medical Waste
- ☐ Off-Specification Chemicals
- ☐ Sludge
- ☐ Spill Clean Up
- ☐ UST Soils
- ☐ Wastes from Service Industries

5. Estimated Annual Volume: 80 ☐ Tons ☒ Yards ☒ Other (specify) SOIL
6 Personal Protective Equipment Requirements: NONE
7 Transporter/Transfer Station: MURPHY BROTHERS TRUCKING - ARCADIA, LOUISIANA
8 Is this a U S Department of Transportation (USDOT) Hazardous Material? (If no, skip 9, 10, and 11) ☐ Yes ☒ No
9. Reportable Quantity (lbs ; kgs): ___
10. Hazard Class/ID #: ___
11 USDOT Shipping Name: ___

☐ Check if additional information is attached Indicate the number of attached pages ___

C. Generator's Certification (Please check appropriate responses, sign, and date below.)

1 Is the waste represented by this waste profile sheet a "Hazardous Waste" as defined by USEPA, Canadian, Mexican and/or state/province regulation? ☐ Yes ☒ No

2 Does the waste represented by this waste profile sheet contain regulated radioactive material or regulated concentrations of Polychlorinated Biphenyls (PCBs)? ☐ Yes ☒ No

3 Does this waste profile sheet and all attachments contain true and accurate descriptions of the waste material? ☒ Yes ☐ No

4 Has all relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste been disclosed to the Contractor? ☒ Yes ☐ No

5 Is the analytical data attached hereto derived from testing a representative sample in accordance with 40 CFR 261 20 (c) or equivalent rules? ☐ NA ☒ Yes ☐ No

6 Will all changes that occur in the character of the waste be identified by the Generator and disclosed to the Contractor prior to providing the waste to the Contractor? ☒ Yes ☐ No

Certification Signature: Roy W. Dowling Title: ENVIRONMENTAL ENGINEER

Name (Type or Print): ROY W. DOWLING Company Name: ALTEL ENVIRONMENTAL CONSULT. Date: 2-10-98

D. WMI Management's Decision — FOR WMI USE ONLY

1 Management Method ☒ Landfill ☐ Solidify ☐ Bioremediation ☐ Other (Specify) ___

2. Proposed Ultimate Management Facility: Magnolia 3 Hours of acceptance ___ ☐ NA

4 Precautions Special Handling Procedures, or Limitations on Approval: ___

Generic Approval ☐ Yes ☐ No

Special Waste Decision ☐ Approved ☐ Disapproved

Salesperson's Signature: Michelle Gardner Date: 12-15-97

Technical Manager's Signature: ___ Date: ___

Form South ...

414 West California Ave
Ruston, LA 71270

EarthNet Laboratories, Inc

318-255-0060
318-251-5614 FAX
800-256-4362

Quality People Working For A Quality Environment

12/01/97

ArkLaTex Environmental
Roy Dowling
P.O. Box 17867
Shreveport, LA 71138-0867
318-687-3771 (FAX)318-687-9923

SAMPLE--(G)rab/(C)omp: G
DATE RECEIVED: 11/21/97
COLLECTED BY: CLIENT

PRESERVED?: Y
TIME RECEIVED: 15:10
BROUGHT IN BY : C

SAMPLE ID	SOURCE	PARAMETER	SAMPLE CONC.	UNITS	PQL	--BEGIN-- DATE	TIME	ANL	METHOD	COLLECTION DATE	TIME
EL37015	LPAL001	Silver(TCLP)	<0 003	mg/l	0 003	11/25/97	12 00	CH	SW 6010	11/14/97	12 15
		Arsenic(TCLP)	<0 05	mg/l	0 05	11/25/97	12 00	CH	SW 6010		
		Barium(TCLP)	0.470	mg/l	0 001	11/25/97	12 00	CH	SW 6010		
		Cadmium(TCLP)	0 007	mg/l	0 004	11/25/97	12 00	CH	SW 6010		
		Chromium(TCLP)	0 013	mg/l	0 005	11/25/97	12.00	CH	SW 6010		
		Lead(TCLP)	0.043	mg/l	0 025	11/25/97	12.00	CH	SW 6010		
		Selenium(TCLP)	<0 05	mg/l	0 05	11/25/97	12.00	CH	SW 6010		
		Mercury(TCLP)	<0 002	mg/l	0 002	11/25/97	13 00	KE	SW 7470		
		Extraction, TCLP	Completed			11/21/97	15.00	JWR	SW 1311		
		Corrosivity (ph)	7 8	s u.	0 1	11/26/97	14 00	CS	SW 9045		
		Ignitability	>212 0	Deg F	75 0	11/26/97	14 00	WM	SW 1010		
		Cyanide, Reactivity	<0 2	mg/kg	0 2	11/26/97	10.00	SL	SW 7.3.3 2		
		Sulfide, Reactivity	<1.0	mg/kg	1 0	11/26/97	11.30	SL	SW 7 3 4.1		

Phillip L. Clancy, Ph.D.
CERTIFIED BY VICE PRESIDENT QA/QC

Analyses conducted in accordance with the list of Approved Test Procedures, published in 40 CFR--Parts 60, 136, and 261. Test procedures are from the 18th edition of Standard Methods for the Examination of Water and Wastewater, Methods for Chemical Analysis of Water and Wastes, 1979 (EPA) ASTM (Annual Book of Standards, Part 31, Water, 1985), or Test Methods for Evaluating Solid Waste (SW-846).

The duplicate analyses and/or spiked samples indicate all methodologies are in control.
Retain records for three years.

* Indicates out of compliance limits established by client and/or regulatory agencies See permit for regulatory reporting requirements.

EARTHNET LABORATORIES, INC.
414 WEST CALIFORNIA AVE.
RUSTON, LA 71270

REACTIVITY, CORROSIVITY AND IGNITABILITY REPORT

CLIENT ArkLaTex Environmental
P.O. Box 17867
Shreveport, LA 71138-0867

P.O # _____
FILE # _____

LEACHATE _____
GRAB X
COMP _____

DATE COLLECTED 11/14/97
DATE RECEIVED 11/21/97
ENL # EL37015

COLLECTED BY Client
RECEIVED BY BG

SOURCE LPAL 001

CERTIFIED BY Phillip L. Clancy, Ph.D.
Laboratory Director

REACTIVITY

STABILITY: STABLE x UNSTABLE _____

REACTION WITH WATER: NO REACTION x VIOLENT _____

ENDOTHERMIC _____ EXOTHERMIC _____

GENERATE GASES _____ DID NOT GENERATE GASES x

REACTION WITH ACID AT PH 2: EVOLVED GASES x

DID NOT GENERATE GASES _____

R. CYANIDE EPA LIMIT 250.0 mg/kg SAMPLE CONC.: <0.2 mg/kg

R. SULFIDE EPA LIMIT 500.0 mg/kg SAMPLE CONC.: <1.0 mg/kg

REACTION WITH BASE AT PH 12.5: EVOLUTION OF GASES _____

NO EVOLUTION OF GASES x

EXPLODED AT STANDARD PRESSURE & TEMPERATURE: YES _____ NO x

CORROSIVITY

CORROSIVITY EPA LIMIT 2-12.5 STANDARD pH UNITS SAMPLE: 7.8 UNITS

IGNITABILITY

IGNITABILITY EPA LIMIT >140°F SAMPLE FLASHPOINT: >212.0 °F

QA/QC BATCH REPORT

REPORT DATE: 12/01/97

To: ArkLaTex Environmental
Roy Dowling
P.O. Box 17867
Shreveport, LA 71138-0867

Our Reference: EL37015
Your Reference:
Date Collected: 11/14/97
Date Received: 11/21/97

QA/QC Batch #:
Client: ARKLEN
Sample Description: LPAL001
Date & Time Analyzed:

Analysis/Analyte	MDL	Units	QA Sample Number	QA Sample Result	Blank Result	Matrix Spike Result	Matrix Spike Spike Amt.	Matrix Duplicate Result	QA/QC Summary % Recovered	QA/QC Summary % Deviation	Analyst Initials
Silver(TCLP)	0 003	mg/l	EL37015	<0 003	<0 003	4 97	5 0	<0 003	99 4		CH
Arsenic(TCLP)	0 05	mg/l	EL37015	<0 05	<0 05	5 19	5 0	<0 05	103 8		CH
Barium(TCLP)	0 001	mg/l	EL37015	0 470	<0 001	98 0	100 0	0 483	97 5		CH
Cadmium(TCLP)	0 004	mg/l	EL37015	0 007	<0 004	1 05	1.0	<0 004	104 3		CH
Chromium(TCLP)	0 005	mg/l	EL37015	0 013	<0 005	5 16	5 0	0 010	102 9		CH
Lead(TCLP)	0 025	mg/l	EL37015	0 043	<0 025	5 10	5 0	0 027	101 1		CH
Selenium(TCLP)	0 05	mg/l	EL37015	<0 05	<0 05	0 952	1 0	<0 05	95 2		CH
Mercury(TCLP)	0 002	mg/l	EL37015	<0 002	<0 002	0 005	0 005	<0 002	100 0		KE
Sulfide, Reactivity	1 0	mg/kg	EL37218	<1 0	<1 0			<1 0			SL
Cyanide, Reactivity	0 2	mg/kg	EL37218	<0 2	<0 2			<0 2			SL
Corrosivity (ph)	0 1	su	EL37015	7 8				7 8			CS

Page

Certified by: Phillip L. Clancy, Ph.D.

414 West California Ave
Ruston, LA 71270

EarthNet Laboratories, Inc

318-255-0060
318-251-5614 FAX
800-256-4362

TCLP ANALYSIS
TCLP REPORT FORM

ENL Sample No	EL37015	Collected.	11/14/97	By:	Client	Time	1215
Client.	ArkLaTex Environmental	Received	11/21/97	By:	BG	Time:	1510
	Roy Dowling	VOAMS Analysis Date/Analyst				11/24/97 RW 1358	
Address:	P O Box 17867	BNAMS Analysis Date/Analyst					
	Shreveport, LA 71138-0867	GCECD Analysis Date/Analyst					
Phone#.	(318) 687-3771	Metals Analysis Date/Analyst				11/25/97 CH 1200	
Sample ID:	LPAL 001	Extraction Date/Time				11/21/97 JR 1500	

EPA HW No.	Contaminant	Analytical Methods SW-846	Regulatory Levels mg/L	Detection Limit mg/L	Sample Concentration mg/L
D004	Arsenic	6010	5 0	0.05	<0.05
D005	Barium	6010	100	0.001	0 470
D006	Cadmium	6010	1.0	0 004	0.007
D007	Chromium	6010	5 0	0 005	0.013
D008	Lead	6010	5.0	0.025	0 043
D009	Mercury	7470	0.2	0.002	<0 002
D010	Selenium	6010	1 0	0.05	<0.05
D011	Silver	6010	5 0	0.003	<0 003
D018	Benzene	8240	0 5	0.10	ND
D019	Carbon Tetrachloride	8240	0 5	0.10	ND
D021	Chlorobenzene	8240	100	0.10	ND
D022	Chloroform	8240	6 0	0.10	ND
D028	1.2-Dichloroethane	8240	0 5	0.10	ND
D029	1.1-Dichloroethene	8240	0 7	0.10	ND
D035	Methyl Ethyl Ketone	8240	200	1 00	ND
D039	Tetrachloroethene	8240	0 7	0.10	ND
D040	Trichloroethene	8240	0 5	0.10	ND
D043	Vinyl Chloride	8240	0 2	0.10	ND

ND - Not Detected
Toxicity characteristic leaching procedure (TCLP) is performed according to SW-846 (Third Edition), Method 1311 dated November, 1990

Phillip L. Clancy, Ph.D.
Certified By Vice President QA/QC

QUALITY CONTROL DATA

Surrogate Recoveries	% Recovery	Target Range
VOA Surrogate, Dibromofluoromethane	95	76 - 144
VOA Surrogate, Toluene d8	104	88 - 110
VOA Surrogate, Bromofluorobenzene	93	86 - 115

414 West California Avenue
Ruston, LA 71270
(318) 255-0060
(800) 256-4362

EarthNet Laboratories, Inc.

Refrigerate to 4°C

P.O. #

Chain-of-Custody

Rush ☐ Standard ☐

Client	Delivered By:
Name: ALTEC (ATTN: ROY DOWLING)	Client ☐ EarthNet ☐ Delivery Service ☐ Bus ☐
Address:	
City, State, Zip:	Project Name/Location
Phone Number: 687-3771 Fax Number: 687-9923	LA PACIFIC - ALEXANDRIA SAWMILL

Sample Collection

Sample No.	Date	Time	Comp/Grab	Source	Analysis Required	Cont	Pres	Special Instructions
LPAL001	11-14	12:15		SOIL	TCLP VOLATILE, TCLP METALS, RLI	4		COMPOSITE 4 INTO 1 TCLP
6371015								

All samples will be collected and preserved according to USEPA and/or EarthNet Laboratories, Inc. established protocols.

Additional Remarks:

Sampled by: ROY DOWLING	Relinquished by: ROY DOWLING	Date 11/21/97	Time 3:00	Received by Brian Pollard

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by	Date	Time	Received for Laboratory by B. [illegible]	Date 11/21	Time 1510

December 15, 1997

Mr. Carcy Walker
Waste Management Inc
Post Office Box 13467
Monroe, Louisiana 71213

RE: Contaminated Soil
Profile #: 60947

Dear Carcy:

In addition to the analytical data provided, I am noting that based on my process knowledge of the waste stream the following parameters are below RCRA hazardous levels as referenced in 40 CFR 261. (Please check the following with a "P" to indicate "Process Knowledge", or "A" to indicate analytical report attached.)

Toxicity Characteristic Leachate Procedure
(Analyticals should be less than one year old)

TCLP - Metals	A
Volatiles	A
Base Neutrals	P
Acid Extractables	P
Pesticides	P
Herbicides	P
Reactivity to Cyanide/Sulfide	A
Ignitability	A
pH	A
Paint Filter (no free liquids)	P

Should you have any questions please give me a call.

Sincerely,

Jason Sanders

Jason Sanders
Louisiana Pacific Corporation

Magnolia Sanitary Landfill
A Waste Management Company

№ 13427

NON-HAZARDOUS MANIFEST

GENERATOR

Generator: LOUISIANA PACIFIC CORP
Address: P.O. BOX 3107
CONROE, TEXAS 77305
ATTN: JASON SANDERS
Phone: (409) 756-0511

LA DEQ SOLID WASTE DIVISION
I.D.#:
Shipping Location: ALEXANDRIA SAWMILL SITE
Address: 1028 FERNER ST. ALEXANDRIA, LA
Phone: (318) 448-4108

Description of Waste Materials	LADEQ Industrial Waste Code #	Profile Number	Total Quantity	Unit of Measure	Container Type
NON-HAZARDOUS CONTAMINATED SOIL		WMNA 60947	20	yd³	TRUCK

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

ROY W. DOWLING — Generator Authorized Agent Name (Print)
Roy W. Dowling — Signature
2-25-98 — Delivery Date

TRANSPORTER

LADEQ Transporter I.D. #: T-027-2277
Transporter Name: MURPHY BROTHERS
Address: P.O. BOX 293
ARCADIA, LA 71001

Driver Name (Print): John Snipe
Truck Number: 47-92
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

John Snipe — Driver Signature
2-25-98 — Shipment Date

I hereby acknowledge that the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

John Snipe — Driver Signature
2-25-98 — Delivery Date

DESTINATION

Site Name: Magnolia Sanitary Landfill
Address: 1000 Russell Sage Road
Monroe, LA 71203

LADEQ Facility #: D-073-1848
LADEQ Permit #: P-0046
Phone Number: (318) 343-5636

Disposal Location: North _____ East _____ Level _____

I hereby acknowledge receipt of the above-described materials.

L Fortenberry — Agent (Print)
Signature
2-25-98 — Receipt Date

Canary - Disposer Retain Pink - Transporter Retain Goldenrod - Generator Retain

Magnolia Sanitary Landfill
A Waste Management Company

№ 13426

NON-HAZARDOUS MANIFEST

GENERATOR

Generator LOUISIANA PACIFIC CORP.
Address P.O. BOX 3107
CONROE, TEXAS 77305
ATTN: JASON SANDERS
Phone (409) 756-0511

LA DEQ SOLID WASTE DIVISION
I.D.#
Shipping Location ALEXANDRIA SAWMILL SITE
Address 1028 FENNER ST. ALEXANDRIA, LA
Phone (318) 448-4108

Description of Waste Materials	LADEQ Industrial Waste Code #	Profile Number	Total Quantity	Unit of Measure	Container Type
NON-HAZARDOUS CONTAMINATED SOIL		WMNA 60947	20	yd³	TRUCK

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

ROY W. DOWLING — Generator Authorized Agent Name (Print)
Roy W. Dowling — Signature
2-25-98 — Delivery Date

TRANSPORTER

LADEQ Transporter I.D. # T-027-2277
Transporter Name Murphy Brothers
Address P.O. Box 293
Arcadia, La 71001

Driver Name (Print) Phil Lyles
Truck Number 26
Truck Type End Dump

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Phil Lyles — Driver Signature
2-25-98 — Shipment Date

I hereby acknowledge that the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Phil Lyles — Driver Signature
2-25-98 — Delivery Date

DESTINATION

Site Name Magnolia Sanitary Landfill
Address 1000 Russell Sage Road
Monroe, LA 71203

LADEQ Facility # D - 073 - 1848
LADEQ Permit # P - 0046
Phone Number (318) 343 - 5636

Disposal Location: North _____ East _____ Level _____

I hereby acknowledge receipt of the above-described materials.

L Fortenberry — Name of Authorized Agent (Print)
L Fortenberry — Signature
2-25-98 — Receipt Date

White - Original Canary - Disposer Retain Pink - Transporter Retain Goldenrod - Generator Retain

APPENDIX B

LABORATORY AND MINE FEATURES
AND
CLASS OF ECONOMY

414 West California Ave
Ruston, LA 71270

EarthNet Laboratories, Inc

318-255-0060
318-251-5614 FAX
800-256-4362

Quality People Working For A Quality Environment

03/09/98

ArkLaTex Environmental
Mr. Roy Dowling
P O. Box 17867
Shreveport, LA 71138-0867
318-687-3771 (FAX)318-687-9923

SAMPLE--(G)rab/(C)omp: G
DATE RECEIVED: 02/25/98
COLLECTED BY: CLIENT

PRESERVED?:
TIME RECEIVED: 13 40
BROUGHT IN BY : C

SAMPLE ID	SOURCE	PARAMETER	SAMPLE CONC.	UNITS	PQL	--BEGIN-- DATE	TIME	ANL	METHOD	COLLECTION DATE	TIME
EL42459	LPAL001	TPH Diesel	<PQL	mg/kg	5 0	02/27/98	12 26	RW	SW 8015	02/25/98	08 4
		TPH	28 2	mg/kg	10 0	03/07/98	10 30	WM	EPA 418 1		
EL42460	LPAL002	TPH Diesel	<PQL	mg/kg	5 0	02/27/98	13 01	RW	SW 8015	02/25/98	08 5
		TPH	54 9	mg/kg	10 0	03/07/98	10 30	WM	EPA 418 1		

Additional Comments:
Louisiana Pacific Alexandria Saw Mill

Phillip L. Clancy, Ph.D.
CERTIFIED BY VICE PRESIDENT QA/QC

Analyses conducted in accordance with the list of Approved Test Procedures, published in 40 CFR--Parts 60, 136, and 261
Test procedures are from the 18th edition of Standard Methods for the Examination of Water and Wastewater, Methods for Chemical Analysis of Water and Wastes, 1979 (EPA) ASTM(Annual Book of Standards, Part 31, Water, 1985), or Test Methods for Evaluating Solid Waste(SW-846).

The duplicate analyses and/or spiked samples indicate all methodologies are in control

Retain records for three years.

* Indicates out of compliance limits established by client and/or regulatory agencies See permit for regulatory reporting requirements.

Ruston, La. 71270
(318) 255-0060
(800) 256-4362

EarthNet Laboratories, Inc.

P.O. # _____

CHAIN OF CUSTODY

Rush _____ Standard _____

Client	Delivered By:
ALTEC ENVIRONMENTAL ATTN: ROY BOWLING	(Client) EarthNet Delivery Service Bus
s: P.O. BOX 17867	Refrigerate to 4°C
City, State, Zip: SHREVEPORT LA 71138	Project Name / Location
Phone Number: 687-3771 Fax Number: 687-9923	LOUISIANA PACIFIC ALEXANDRIA SAWMILL

Sample Collection										
Sample No.	Date	Time	Comp/Grab	Source	Analysis Required		Cont	Pres	Matrix	Special Instructions
LPAL001	2-25	8:40	GRAB	SOIL	TPH 8015	TPH-DIESEL				42451
LPAL002	2-25	8:55	GRAB	SOIL	TPH 8015	TPH DIESEL				42461

All samples will be collected and preserved according to USEPA and/or EarthNet Laboratories, Inc. established protocols.

Additional Remarks:

Sampled by: Roger Bowling	Relinquished by: Roger Bowling		Date: 2-25-98	Time: 1:42	Received by:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time.	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received for Laboratory by: Roger Bright	Date: 2-25-98	Time: 1340

Louisiana Pacific Corporation
Alexandria Sawmill
Soil Removal

Front end loader in Building 40

Original soil in Building 4

Louisiana Pacific Corporation
Alexandria Sawmill
Soil Removal

Loading the soil

Trucks manifested for departure

Louisiana Pacific Corporation
Alexandria Sawmill
Soil Removal

Cleaned slab

Clearance soil sampled

Reference 10

Alexandria

Louisiana-Pacific Corporation

Alexandria Sawmill

Alexandria, Louisiana

FILE COPY

Response to EPA Region VI Questionnaire on PCB Violations

May 15, 1997

Louisiana-Pacific Corporation

P O Box 310
Conroe Texas 77305
409/756-0511

May 15, 1997

Patrick Y Spillman, Jr
Assistant Regional Counsel
US Environmental Protection Agency
Region VI
1445 Ross Avenue
Dallas, Texas 75202-2733

Dear Mr Spillman

As requested in your letter of March 17, 1997, we have prepared the enclosed documents in response to your questions regarding the TSCA PCB-violations which we had previously reported to Region 6

We have prepared separate responses for each of the two facilities involved. Included within the responses are summaries of the site investigations and analytical work performed for us by ERM-Southwest, ERM-EnviroClean and The Environmental Company, Inc

We have also included a revised copy of our Manager's Environmental Handbook (Exhibit A) which we discussed at our meeting on February 20. Attached to the cover are copies of the Louisiana-Pacific Code of Business Conduct (Exhibit B) and the Environmental Handbook for Employees (Exhibit C) In the front of the notebook, we have inserted two of L-Ps pertinent Standard Operating Procedures

If you or your colleagues have any questions regarding these materials, or need any additional information, please contact me My phone number is 409-760-5961

Thank you for your assistance.

Sincerely,

Barbara J. McGuinness

Barbara J. McGuinness
Manager of Environmental Affairs, Southern US

Louisiana-Pacific Corporation
Environmental Affairs, Southern U.S.

Response to Region 6 Questionnaire on PCB Violations at Louisiana-Pacific Site in Alexandria, Louisiana

1. Describe the violation and state the specific regulatory or statutory provisions violated.

Equipment	Nature of Violation	Regulatory Provision
PCB Transformers (nine) Serial Numbers: F564894-66P, 564896-66P, 564895-66P, B532544, B532543, B532542, 692A7043, 692A7042, B330494	Failure to Register with Fire Response Personnel	40 CFR § 761 30(a)(1)(vi)
	Failure to Conduct Periodic Visual Inspection	40 CFR § 761 30(a)(1)(ix) or (xiii)
	Failure to Mark with Required Label	40 CFR § 761 40(a)(2) or (c)(1)
	Failure to Mark the Transformer Location	40 CFR § 761 40(j)
	Failure to Develop and Maintain Annual Document Log	40 CFR § 761 180(a)

PCB Disposal and Cleanup[1] Serial Numbers: B532544, B532543, B532542	Improper Disposal	40 CFR § 761 60(a)
	Failure to Eliminate Source of Leak	40 CFR § 761 30(a)(1)(x)

PCB Contaminated Electrical Equipment (twelve) Serial Numbers D461678-59P, D461681-59P, D461683-59P, 63B6066, 63A6616, 63A6620, 63B5770, 63A6617, 1529276, 1529278, 692A7036, 947680	None	

[1] It was not possible to determine which of the transformers had leaked in the past Therefore all three are reported as violations here

134779

2. Explain how the violation was discovered. Please be as detailed as possible.

Discovery of the violations occurred through a series of actions, stemming from a third-party site assessment (Phase I) conducted in anticipation of the sale of the site and site assets

On August 26 and 27, 1996, ERM-Southeast conducted the site inspection portion of a Phase I environmental site assessment at Alexandria On October 23, 1996, the draft report for the Phase I assessment was sent to L-P's attorney (Vinson and Elkins) with copies to L-P's Conroe, Texas and Portland, Oregon offices Sec 3 7 of the draft report addresses transformers and other electrical equipment which could contain PCBs The report discusses 33 transformers of which 7 were labeled as non-PCB The report also discusses oil stains on the concrete pad under 3 transformers located at the power house

Information received from the site in August of 1996 indicated that site personnel believed that none of the transformers contained PCBs Thus, at that time, this was not viewed as a site where there were likely to be violations

Following the hiring of new Regional and Lumber business environmental managers in October and November of 1996, L-P personnel began to visit closed sawmill sites to determine the need for additional (Phase II) assessments prior to sale. In December 1997, L-P personnel assessed 6 sites Alexandria was the sixth, and was assessed on December 18, 1996 That assessment revealed that

- There were a number of transformers at the site, very few of which were marked as non-PCB. The site believed that all PCB-containing equipment had been removed from the site previously; however, the site did not have records to support this, stating that the records had been sent to the Conroe, Texas regional office A search for the records was begun in Conroe but they were never discovered

- A number of PCB-containing capacitors were also discovered during the December 18 assessment Some of the capacitors were connected to electrical service, and others were in storage areas.

- The concrete pad under three large transformers was stained with oil The oil appeared to have run onto the ground at the base of the pad and towards a nearby ditch

Based on these conditions, the L-P site assessment team recommended an immediate follow up, including PCB sampling, to determine whether the transformers on site contained PCBs and whether a release of PCB-containing oil had occurred

On December 23, 1996, a team from ERM-Southwest sampled the transformers at Alexandria, and took samples of oil and dirt from the areas of concern On December 30, 1996, the Southern Region Environmental Manager called Region 6 to report possible PCB violations at the Alexandria site. A letter reporting the possible violations was sent to Region 6 on January 2, 1997

During January and February of 1997, an extensive sampling, analysis and clean up was undertaken See Item 10 for a detailed discussion of this effort

3. State whether the violation of a federal, state, or local regulation was discovered by means of a systematic, internal environmental audit or through due diligence.

The violations were discovered through LPC's due diligence system which employed external audit assessments as one of its tools

If LPC contends that the violation was discovered through "due diligence," as defined in EPA's Self-Disclosure Policy, explain, in detail, how the company's practices and procedures leading to the discovery of the violation constitute such due diligence.

The Company's Due Diligence System

"Due diligence," as defined by EPA

> encompasses the regulated entity's systematic efforts, appropriate to the size and nature of its business, to prevent, detect, and correct violations through all of the following·
>
> (a) Compliance policies, standards, and procedures that identify how employees and agents are to meet the requirements of laws, regulations, permits, and other sources or authority for environmental requirements,
>
> (b) Assignment of overall responsibility for overseeing compliance with policies, standards, and procedures, and assignment of specific responsibility for assuring compliance at each facility or operation,
>
> (c) Mechanisms for systematically assuring that compliance policies, standards, and procedures are being carried out, including monitoring and auditing systems reasonably designed to detect and correct violations, periodic evaluation of the overall performance of the compliance management system, and a means for employees or agents to report violations of environmental requirements without fear of retaliation,
>
> (d) Efforts to communicate effectively the regulated entity's standards and procedures to all employees and other agents,
>
> (e) Appropriate incentives to managers and employees to perform in accordance with compliance policies, standards, and procedures, including consistent enforcement through appropriate disciplinary mechanisms; and
>
> (f) Procedures for the prompt and appropriate correction of any violations and any necessary modifications to the regulated entity's program to prevent future violations.

We address each one of these issues relating to whether LPC has an appropriate "due diligence" system below

(a) LPC has a number of compliance policies, standards and procedures that identify how LPC employees and agents will meet legal requirements First, LPC has issued two corporate documents -- the Corporate Policy on Protection of the Environment, and the Policy on Employee Duties with Respect to Environmental Compliance Both of these policies are contained in the Company's Environmental Handbook for Employees The Handbook is attached as Exhibit C

The Corporate Policy on Protection of the Environment provides that the Company will strive to meet or surpass the requirements of environmental laws, will minimize pollution, and will consider environmental issues in its planning and business decisions Through this policy, environmental management is integrated into the Company's overall management systems.

The Policy on Employee Duties with Respect to the Environment sets forth the obligation of all LPC employees to obey environmental laws, to communicate concerns to management, and to become

informed about the environmental requirements associated with their duties This Policy conveys to each employee the importance of environmental compliance, and provides guidance on how employees should conduct themselves in matters affecting the environment, each employee is responsible for reporting environmental matters of concern to his or her manager The Policy delineates employee and management duties in specific areas, such as having permits in place when needed, making sure that permit requirements are sufficiently known, handling permit applications properly, how to deal with government inspections and information requests, hazardous waste requirements and off-site and on-site disposal The Policy further explains the role of the Corporate Department of Environmental Affairs, the Division[2] and Subsidiary Environmental Departments, and the Legal Department Finally, the Policy clearly explains the Company's procedure for reporting environmental concerns

Both the Corporate Policy on Protection of the Environment and the Policy on Employee Duties with Respect to the Environment are administered by the company's Department of Environmental Affairs They were initially distributed to all Company employees in early 1994 via a memorandum from the Chairman of the Board Since then, as a matter of policy, each new employee hired is to receive copies of these policies as a part of their orientation

This system places the primary responsibility to ensure compliance on facility managers but recognizes that facility managers cannot realistically be expected to have the knowledge and skills needed to fulfill every aspect of environmental management Thus, the Company's due diligence system provides such managers with numerous personnel resources and written guidance

Specifically, LPC publishes a Managers' Environmental Handbook (Exhibit A), which provides environmental guidance to all plant managers and regional environmental personnel

LPC also has issued several standard operating procedures, referred to as "Compliance Advisories." These are issued by corporate Department of Environmental Affairs and sent to all plant managers at each facility

LPC provides assistance to individual facilities through its various environmental departments, and has established training programs designed to inform employees about environmental requirements. A comprehensive, facility-wide training program was started recently for the LPC sawmills, and is being conducted on a facility-by-facility basis LPC also does "cross-training" of environmental managers of different types of facilities on a quarterly basis

On a more general level, the Company's Code of Business Conduct (attached as Exhibit B) emphasizes the importance of complying with environmental laws, providing that

> Employees at all levels must ensure that the company operates in compliance with all environmental laws Louisiana-Pacific is committed to complying with environmental regulations and minimizing the impact of its operations on the environment The company will provide its employees with the training and resources necessary to ensure compliance and will provide assistance when needed Employees must keep required records, perform required monitoring, be familiar with permit requirements and maintain complete and accurate information Employees should be aware that civil and criminal liability can be imposed on them individually, as well as on the company, for violating environmental laws and regulations whether or not the violation was intentional. Guidance with respect to environmental matters is provided in the "Environmental Handbook for Employees " Code of Business Conduct, at 4

[2] L-P has recently reorganized and now refers to the former "Divisions" as Regions In addition, each of L-P's core businesses now has a dedicated business environmental manager

(b) Overall responsibility for overseeing compliance with policies, standards and procedures, and specific responsibility for assuring compliance at each facility or operation are clearly assigned

The company has made it clear that the responsibility for environmental compliance at each facility rests with each individual plant manager Plant managers are assisted by environmental managers, at the plant level (depending upon the size of the facility), at the regional level and at the corporate level.

As a general rule, the environmental functions at the regions and businesses provide most of the direct assistance to the facilities, by providing technical assistance or retaining consultants for the facilities

The corporate Department of Environmental Affairs has responsibility for overseeing corporate environmental performance and communicating environmental operating policies and procedures This includes advising plant and division environmental managers, determining the need for environmental projects, and coordinating a corporate environmental quality assurance program to assist divisions with compliance issues The Department also is responsible for advising upper management and developing programs to support corporate-wide environmental programs Also at the corporate level, the company has product-line environmental managers (for example, an OSB environmental manager) to provide guidance and assistance whenever needed

A key component of the Company's "due diligence" system is the Department of Environmental Affairs, including numerous environmental professionals at various locations within the Company Not only do these environmental professionals advise and oversee facility managers and other operations personnel on environmental compliance issues, but they conduct and oversee environmental assessments of inactive facilities and facilities that are being considered for purchase or sale

A primary element of selling or purchasing property is the environmental assessment Environmental assessments typically consist of two phases Phase I, which consists of a records review and site visit for the purpose of identifying possible environmental problems that could affect the sale or purchase, and Phase II, which involves a much more detailed review of potential environmental issues and often involves sampling to confirm the existence and extent of problems

(c) LPC has in place detailed, comprehensive, mechanisms for systematically assuring that compliance policies, standards, and procedures are being carried out

Internal Audit Program LPC has a substantial environmental audit program to ensure that compliance policies and standards are being met The purpose of the program is threefold (1) to verify compliance with environmental requirements, (2) to evaluate the conformance of the environmental management systems to government criteria for corporate compliance programs, and (3) to detect practices that present unreasonable risk of environmental liability

Environmental compliance at LPC, however, is not driven by the audit process The audit program is not a substitute for management initiative aimed at meeting environmental requirements and is not the initial tool by which the company effects compliance Although the environmental audit process provides environmental managers with useful information, the managers have a duty independent of the audit process to monitor and ensure compliance at the company's facilities

The environmental audit program is directed by the Legal Department with assistance provided by the Internal Audit Department Occasionally, third party auditors are used instead of staff from the Internal Audit Department

The environmental compliance component of the audit program evaluates all applicable regulatory requirements including, but not limited to

Awareness of permit requirements and compliance with permits

Ensuring that each facility has permits when required, and that the permits are valid

Testing and recordkeeping requirements for storage tanks

Awareness of spill reporting requirements and assigned reporting duties of specified personnel

Labeling requirements and knowledge of the ultimate disposition of waste shipped off-site

Ensuring that no improper substances are disposed at on-site disposal facilities

Safety and health requirements, including hazard communication, lockout and confined entry

Conformance with this standard is analyzed against all federal, state, and local regulatory and common law requirements that may apply

The audit program also evaluates the company's environmental management systems to ensure that they are sufficiently structured and effective to identify problem areas and to detect and prevent repeat issues Finally, the audit program evaluates business risks -- those practices that represent unreasonable risk of environmental liability, such as cleanup issues

Environmental audits are conducted under the auspices of the Legal Department as directed by the company's Board of Directors Facilities are audited on a rotation of about three to four years In selecting and prioritizing which facilities will be audited, the factors considered include the complexity of the operations, management interest, and pressing regulatory issues Some priority also is given to the likelihood that management will be able to apply the knowledge obtained from auditing a particular facility to similar operations

The initial part of an audit usually is conducted by a member of the Internal Audit Department working at the direction of an attorney, although occasionally, outside contractors are used to conduct the initial part of the audit In order to prepare for the audit, the Internal Audit Department requests information from the Legal Department regarding legal proceedings or regulatory actions that may affect the facility, such as consent decrees, compliance orders, and litigation matters that involve environmental issues This information alerts the Internal Audit Department to investigate items that may go beyond compliance requirements imposed by regulations and permits The Director of Environmental Affairs is then consulted regarding the existence of special areas of interest that may warrant additional attention. Thereafter, the regional and product line environmental managers, and any other appropriate environmental manager are notified of the pending fieldwork and asked whether they have special areas of interest or concerns that should be covered during the audit

Once an audit has been done and potential problems identified, facility management has responsibility for developing and implementing an appropriate corrective action plan to address the specific findings and recommendations of the environmental audit and to advise the Legal Department of progress and resolution The facility is required to send a report (describing the action taken with respect to each recommendation and the status of any uncompleted corrective action and the estimated completion date) to a specially-designated corporate employee in charge of audit follow-up (This process has recently been formalized in a Standard Operating Procedure, included as Exhibit D) That person routes the report to the Legal Department The Legal Department then prepares a report to management evaluating

whether the audit recommendations have been adequately addressed describing the status of uncompleted corrective actions, and detailing further action required to respond to outstanding items

Employee Hot Line LPC has a strict policy of no retaliation against employees for expressing concerns about potential environmental issues Not only must supervisors respect the right of any employee to express such concerns, they also must ensure that such employees are not treated adversely by coworkers To promote reporting of environmental concerns by employees who do not feel comfortable talking to their supervisors, LPC has implemented an "800" Hot Line, through a confidential reporting service The Hot Line was initially created for environmental issues The 800-number is posted at each plant, and is identified in various company publications It is operated by an independent third party. The Hot Line is being used, with increasing frequency, to identify, and correct environmental issues Company policy prohibits efforts intended to discover the identity of employees who choose to use the confidential service

(d) LPC has implemented several important measures to communicate effectively its standards and procedures to all employees and other agents, in addition to the corporate policies, handbooks and training, described in paragraph (a), above Mission statements and corporate policies are posted at all LPC facilities Employees are instructed that they can ask the environmental manager and/or the plant manager whenever they have questions about the company's standards and procedures Employees also are instructed to use the Hot Line as necessary if confidentiality is desired

(e) LPC provides appropriate incentives to managers and employees to ensure high quality environmental performance, including enforcement and discipline through its Code of Business Conduct (see Exhibit B)

The Code of Business Conduct is communicated extensively to employees, and clearly provides that any LPC employee will be held responsible for environmental misconduct Several people already have been disciplined under the Code of Business Conduct

Although the policy on employee duties informs employees that they are subject to discipline if their actions cause noncompliance, it also informs managers that the ability to operate their facilities in conformance with environmental requirements is a factor by which they will be evaluated By phrasing the policy this way, LPC has informed its managers that they will be rewarded for high quality environmental performance, while poor environmental performance will adversely affect their career advancement and personal compensation

(f) LPC has implemented procedures for the prompt and appropriate correction of violations. This corrective action process is described in paragraph (c), above.

In addition, the corporate policies require that any discovered noncompliance be addressed promptly and that recurrence be prevented In 1996, LPC adopted and distributed to its personnel a standard operating procedure which formalizes its commitment to reporting suspected violations (see Exhibit E). Specific procedures are established that LPC employees must follow to ensure that facility managers and plant, regional, and corporate environmental personnel are promptly informed of potential violations. A primary reason for this reporting system is to ensure that potential violations are timely and adequately evaluated and managed to resolution appropriately

How the Company's Due Diligence System Led to the Discovery of the Violations Here at Issue.

The Alexandria, Louisiana, sawmill has not operated since 1989 The site has been used only for log storage and warehousing finished wood products from that time to the present Because of its inactive status, the site was not a high priority for the Company's internal audit program The subject violations were discovered, instead, through the Company's environmental due diligence efforts in preparation for sale of the facility Under that system, Phase I assessments were first conducted to identify potential

problems at this and a large number of other sites The Company's environmental personnel visited the site to determine the need for and potential scope of a Phase II assessment (which is to include sampling) As a result of that visit on December 18, 1996, a Phase II sampling effort was quickly initiated, a factual basis for potential PCB violations discovered, and reporting to the EPA initiated The following chronology describes key events

- August 26 and 27, 1996 Oil stains noted on the concrete pad under 3 transformers located at the power house as part of a Phase I assessment at the site done by ERM-Southeast At that time, the information from the site was that PCB-containing equipment had been removed from the site

- A new Southern Region environmental manager began work in October 1996 A new Lumber business environmental manager began work in November 1996

- The site indicated that the records for the PCB units at the site had been sent to the Company's Southern Division headquarters in Conroe, Texas A search for the records was conducted but no documents were located

- On December 18, 1996, the Lumber environmental manager and a member of the Southern Region staff visited the Alexandria site to determine whether and to what extent a Phase II assessment was needed

- Based upon their observations, the Southern Region environmental manager ordered an immediate follow up be conducted to determine whether any of the transformers were PCB or PCB-contaminated and to determine what was in the oil released from the three transformers and how far it had spread

- An immediate directive to provide increased security for the site was issued, and regular security patrols were initiated shortly thereafter

- The oil from the three transformers that had leaked onto the concrete pad and then onto the ground looked like a long-standing leak, did not look in any way fresh, and did not seem extensive There was no active leak Nevertheless, the leak clearly required attention to determine whether there were any PCBs released and, if so, to what extent.

- On December 23, 1997, a team from ERM-Southwest sampled all of the transformers at the site, as well as the stained soil near the power house transformers

- On December 30, 1997, the Southern Region environmental manager called Region 6 to report possible PCB violations at Alexandria A letter reporting the possible violations was sent to Region 6 on January 2, 1997

- On January 8, 1997, the Southern Region environmental manager received the preliminary results indicating that the three transformers contained PCBs Arachlor 1260 Those results indicated that PCBs had been released to the concrete pad and hence into the soil near the pad

- The site personnel believed that the three transformers from which the leak had emanated were owned and controlled by the City of Alexandria. That was the understanding until February 6, 1997, when a Southern Region staff person spoke to the city and was told that, in their view, the three transformers were LPC's and not the city's.

- In January a decision was made to initiate a removal of all PCB and PCB-contaminated transformers from the site as well as removal of the contaminated concrete pad and soil. In

early February contractual terms were agreed to with ERM-EnviroClean-Southwest to implement the clean up and disposal action

- On February 6, 1997, the clean up consultant met with LPC personnel and the site clean up was initiated
- By 8 PM on February 7, 1997, the contaminated soil and concrete pad had been removed
- On February 8, 1997, a confirmatory sampling grid had been established Grab samples were taken that day
- On February 28, 1997, results from the sampling indicated that the soil samples contained less than 3 PPM of PCBs

If the violation was discovered by means of an environmental audit, provide the following information:

A. State the date(s) on which the environmental audit or systematic procedure or practice that identified the violation was being conducted.

N/A

B. State the frequency of environmental audits at the Alexandria, Louisiana facility. State the date(s) on which the last environmental audit was conducted at the facility prior to 1996.

N/A

C. State whether the Alexandria facility has written policies or directives to follow up on audit findings to correct identified problems and prevent their recurrence.

Provide Region 6 with a copy of each such written policy or directive.

Individual L-P facilities are governed by Corporate policies and directives A copy of the L-P environmental policy and two key Standard Operating Procedures are included among the Exhibits.

D. Describe the relationship between the Alexandria facility and the person(s) responsible for conducting environmental audits. Explain how LPC ensures the auditor's tasks or inquiries are carried out in an objective and unobstructed manner. Include in your answer a discussion of the manner in which personal, financial, or other potential conflicts of interest are avoided between employees of the Alexandria facility and the individuals conducting an audit.

In the case of the Alexandria facility, the assessments which revealed PCB violations were not part of the company's environmental audit program The original assessment (August 1996) and follow up sampling (December 1996) were conducted by third parties, under contract to L-P

E. Provide a copy of written audit policies and procedures for the Alexandria facility. The requested policies and procedures should indicate the scope of the audit, the process for examining and evaluating audit findings, the protocol for communicating audit results to management, auditor conflict of interest policy, auditor education and training requirements, and follow-up measures.

See above

4. Was the violation identified through an activity which LPC was legally required to perform, such as under a State or Federal statute, regulation or permit, or under the terms of a judicial or administrative order or consent agreement? If so, identify the authority under which the activity was required.

No

5. Is the violation required to be reported under any Federal or State statute, regulation or permit? If so, identify each such statute, regulation or permit.

No

6. State the date on which the violation was discovered. If LPC believed additional analysis or information was needed after the audit/systematic procedure or practice to determine whether a violation existed, state the reasons for the additional analysis.

Identification of the potential problem occurred on December 18, 1996 The suspected violations were objectively confirmed on January 8, 1997 when preliminary laboratory analysis results were available.

7. If disclosure of the violation was not within ten (10) days of the date of discovery, or such shorter period as may be provided by law, please explain, in detail, the reasons that the violation was not disclosed within 10 days of discovery.

The violation was reported to EPA Region 6 on December 30, 1996 by telephone, and on January 2, 1997 by letter. Reporting was delayed slightly by the intervening Christmas holidays and difficulties in obtaining laboratory analyses and in contacting responsible company officials

8. Identify the name, title, and employer of each individual who discovered the violation.

Glen Patrick, Lumber Environmental Manager, Louisiana-Pacific Corporation
Larson Harsey, Atlantic Region Environmental Coordinator, Louisiana-Pacific Corporation

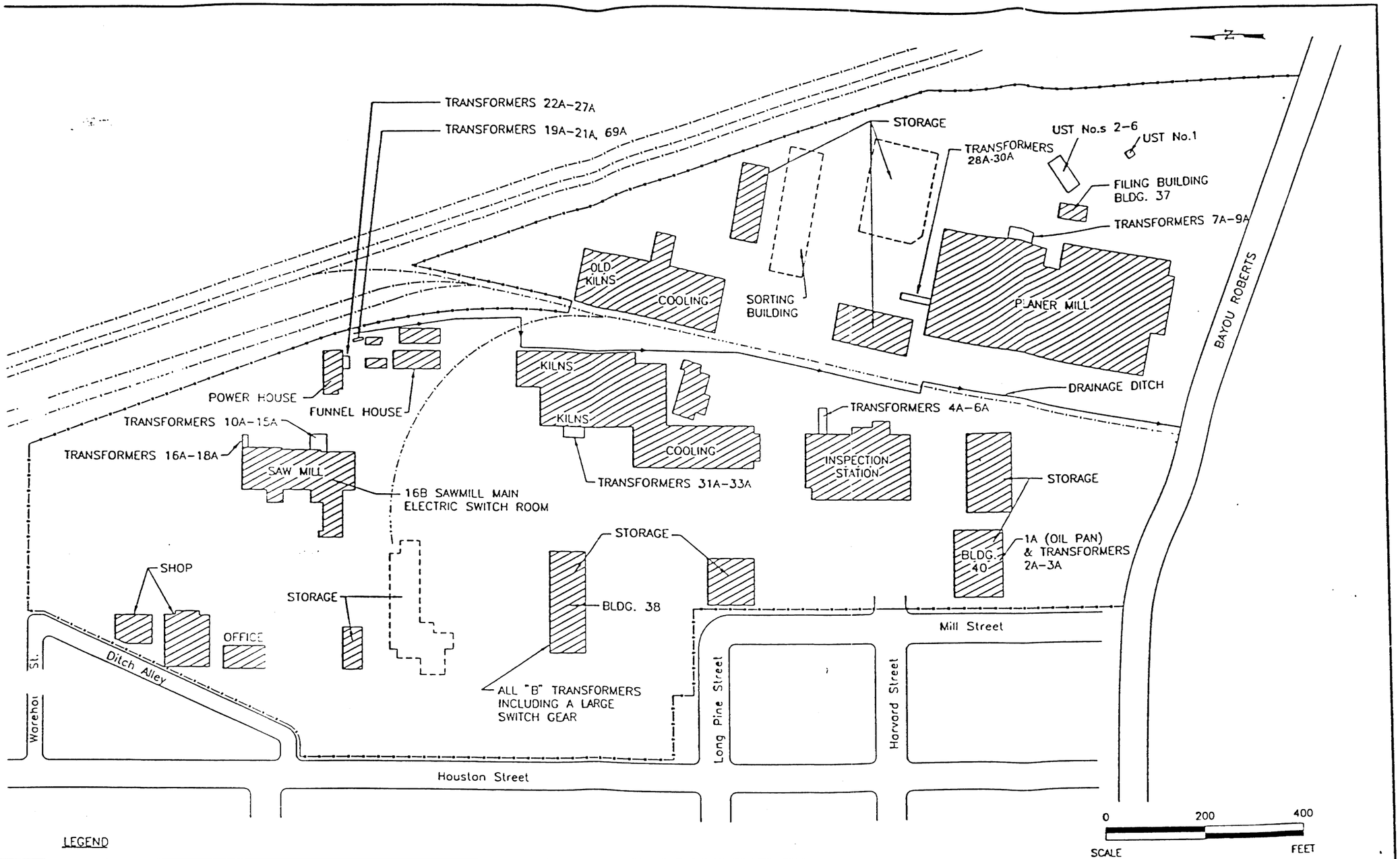
9. If the violation was discovered by an independent auditor, (that is, by a person not employed by LPC), provide the date and the manner in which LPC was made aware of the violation.

Prior to January 8, 1997, there was no single event that objectively determined their existence A combination of information received as a result of the Phase I environmental analysis and later by a review by L-P personnel suggested the violations However, the existence of violations was not confirmed until January 8

10. Explain in detail all measures taken to correct or remediate the violation. Provide an estimate of the length of time it took or will take to complete these measures. If LPC estimates that more than 60 days will be needed to correct the violation, please explain fully and provide the opinion of any technical or engineering expert relied upon to arrive at that estimate.

December 23, 1996

On December 23, 1996, the L-P Sawmill in Alexandria, Louisiana was visited by representatives from ERM-Southwest, accompanied by representatives from L-P. A plan of the site is incluced as Figure 1 A brief walk through the plant was conducted to review the location of various electrical equipment consisting primarily of transformers, most of which were still in service, along with several in storage There were several large PCB capacitors stored in drums in the warehouse with PCB labels affixed. There was an area of stained soil observed near transformers labeled by ERM as 19A 20A, and 21A



LEGEND

-·- RAILROAD TRACKS

—• PROPERTY BOUNDARY

1. BLDG. 40 CONTAINS 4 EMPTY TRANSFORMERS IN ADDITION TO THE ITEMS SHOWN ON THE MAP. TRANSFORMER IDS CORRESPOND TO SAMPLES COLLECTED BY ERM-SW PERSONNEL ON DEC. 23, 1996.
2. UST – UNDERGROUND STORAGE TANK

ERM-Southwest, Inc.
HOUSTON • NEW ORLEANS • AUSTIN • DALLAS • BEAUMONT

ERM.

FIGURE 1
TRANSFORMER LOCATIONS
Louisiana-Pacific Corporation
Alexandria, Louisiana

DESIGN: JMB	CHECKED:	DATE: 01/21/97	SHEET NO. 1 of 1
DRAWN: LMc	SCALE: AS SHOWN	W.O. NO.: 34405801A97	

Samples were collected from all of the transformers on-site, with L-P representatives de-energizing those transformers that were still in service. There were a total of fourteen transformers in storage in the building designated as Building 38 (These are the 1B-13B and 15B samples) In addition to the transformers, there were two oil-filled electrical switches sampled (samples 14B and 16B) The sample results from this effort are summarized in Table 1

As noted above, one of the transformer banks (19A-21A) had dark stains on the concrete slab and in the soil immediately east of the slab leading down to a small stormwater ditch Two of these transformers (20A and 21A) also contained water, forcing collection of oil samples through the top hatch rather than the bottom sample port One of the transformers, 21A, was observed to have some weeping around the bottom sample port This leakage was stopped by tightening all of the fittings on the sample piping. A sample of the stained soil and wood chips directly beneath the transformers was collected, as was a composite surface sample of the stained soil and wood debris between the pad and the ditch These samples are designated as samples 4C and 5C

All samples were hand delivered to Core Laboratories in Houston, Texas for analysis of PCBs as well as TPH and TCLP for the soil samples

January 10, 1997

On January 10, 1997, ERM-Southwest visited the site to develop a sampling plan based on preliminary laboratory results from the December 23 sampling effort If there had been any contamination of the ditch from the affected soils, it would be expected to be in the ditch sediments, since PCBs typically collect in the sediments in water bodies, especially in the areas of lowest elevation PCBs also typically adhere to the clay particles in the sediment, which tends to slow migration beyond the source

January 15-17, 1997

On January 15, 1997, ERM-Southwest visited the Alexandria site to continue the site investigation activities Field activities continued through January 17, 1997

Activities began with the flagging and sampling of 24 locations within the ditch, shown in Figure 2, located east of transformers 19A-21A Sediment sample collection began near transformers 19A-21A and extended to a distance of approximately 1,300 feet south to a point 90 ft north of the intersection between the ditch and Bayou Roberts In the area immediately east of the transformers, the ditch flows to the north directly north of the area, and to the south directly south of the area Upon making this observation, a sample was collected from a location in the ditch north of the transformers. Laboratory data from the sediment samples is summarized in Table 2 and analytical results from these and all other samples collected by ERM-Southwest personnel are included as Attachment A

Additional activities included marking a grid and sampling the soil from seven (7) locations around transformers 19A-21A in accordance with EPA document 560/5-86-017 *Field Manual for Grid Sampling of PCB Spill Sites to Verify Cleanup* dated May 1986, to more accurately define the lateral limits of affected material. The dimensions of the grid and locations of the grab samples are provided in Figure 3 Soil samples were collected in the stained area east of the slab in order to ascertain the vertical extent of contamination. However, refusal of the hand auger was experienced in three different locations at a depth of 18 inches, possibly indicating the presence of a spread footing for the slab Furthermore, a wipe sample was collected from the base of the concrete pad supporting the transformers, utilizing the protocol outlined in the aforementioned EPA document. All samples were delivered by overnight courier to Core Laboratories in Houston, Texas for analysis of PCBs. These sample results are listed in Table 3 The amount of fluids (i e , water and oil) contained within transformers 19A-21A was also determined. These calculations are included as Attachment B

Table 1 Inventory of Oil Samples
Alexandria, Louisiana

Sample ID	Date Sampled	Description	Serial Number	Location	PCB Concentration (ppm)	Concentration Range* (ppm)	Volume of Oil (gallons)	Weight of Transformer** (lbs)	Manufacturer	Transformer Type
1A	12/23/96	Oil Pan with Parts and Oil	NA	Building 40	2.3	1		NA	NA	
2A	12/23/96	Pole Mounted Transformer in Storage	NA	Building 40	1.7	1	Trace		ESCO	
3A	12/23/96	Pole Mounted Transformer in Storage	NA	Building 40	2.2	1	Trace		ESCO	
4A	12/23/96	Pad Mounted Transformer	D161678-59P	Behind Inspection Station	99.0	2		1445	GE	Permalex
5A	12/23/96	Pad Mounted Transformer	D161681-59P	Behind Inspection Station	108.0	2		1445	GE	Permalex
6A	12/23/96	Pad Mounted Transformer	D161683-59P	Behind Inspection Station	101.0	2		1445	GE	Permalex
7A	12/23/96	Pad Mounted Transformer	1564894-66P	Behind Planer Mill	693.0	[illegible]		2860	GE	Distribution
8A	12/23/96	Pad Mounted Transformer	561896-66P	Behind Planer Mill	677.0	[illegible]		2860	GE	Distribution
9A	12/23/96	Pad Mounted Transformer	564895-66P	Behind Planer Mill	664.0	[illegible]		2860	GE	Distribution
10A	12/23/96	Pad Mounted Transformer	63B6066	South End of Sawmill	58.0	2		2190	Westinghouse	S Insuldur Wescor
11A	12/23/96	Pad Mounted Transformer	63A6616	South End of Sawmill	191.0	2		2190	Westinghouse	S Insuldur Wescor
12A	12/23/96	Pad Mounted Transformer	63A6620	South End of Sawmill	113.0	2		2190	Westinghouse	S Insuldur Wescor
13A	12/23/96	Pad Mounted Transformer	63B5770	South End of Sawmill	61.0	2		2190	Westinghouse	S Insuldur Wescor
14A	12/23/96	Pad Mounted Transformer	63B12647	South End of Sawmill	49.0	1		2190	Westinghouse	S Insuldur Wescor
15A	12/23/96	Pad Mounted Transformer	63A6617	South End of Sawmill	163.0	2		2190	Westinghouse	S Insuldur Wescor
16A	12/23/96	Pad Mounted Transformer	1529278	North End of Sawmill	157.0	2	208	1560	Allis-Chalmers	
17A	12/23/96	Pad Mounted Transformer	1529276	North End of Sawmill	487.0	2	208	1560	Allis-Chalmers	
18A	12/23/96	Pad Mounted Transformer	1529277	North End of Sawmill	6.9	1	208	1560	Allis-Chalmers	
19A	12/23/96	Pad Mounted City Transformer?	B532544	Behind Powerhouse near Ditch	526.0	[illegible]	280	2100	GE	
20A	12/23/96	Pad Mounted City Transformer?	B532543	Behind Powerhouse near Ditch	655.0	[illegible]	280	2100	GE	
21A	12/23/96	Pad Mounted City Transformer?	B532542	Behind Powerhouse near Ditch	586.0	[illegible]	280	2100	GE	
22A	12/23/96	Pad Mounted Transformer	0331548	South of Powerhouse	17.0	1	85	650	GE	Spirakote
23A	12/23/96	Pad Mounted Transformer	01AL4401	South of Powerhouse	ND	1		1294	Westinghouse	S Insuldur Wescor
24A	12/23/96	Pad Mounted Transformer	3110748	South of Powerhouse	5.6	1	37	1420	R I&L Corporation	Distribution
25A	12/23/96	Pad Mounted Transformer	912570	South of Powerhouse	11.0	1	170	5115***	Kuhlman/Ohio Transformer Corp	
26A	12/23/96	Pad Mounted Transformer	951610	South of Powerhouse	16.0	1	170	5115***	Kuhlman/Ohio Transformer Corp	
27A	12/23/96	Pad Mounted Transformer	942571	South of Powerhouse	11.0	1	170	5115***	Kuhlman/Ohio Transformer Corp	
28A	12/23/96	Pole Mounted Transformer	6111622	North Side of Planer Mill	1.3	1		1340	Westinghouse	S Hypersil
29A	12/23/96	Pole Mounted Transformer	No ID Plate	North Side of Planer Mill	1.2	1		1340	Westinghouse	S Hypersil
30A	12/23/96	Pole Mounted Transformer	6111619	North Side of Planer Mill	1.0	1		1340	Westinghouse	S Hypersil
31A	12/23/96	Pole Mounted Transformer	64AL4404	West Side of New Kiln	ND	1		1294	Westinghouse	S Insuldur Wescor
32A	12/23/96	Pole Mounted Transformer	64AJ1030	West Side of New Kiln	ND	1		1294	Westinghouse	S Insuldur Wescor
33A	12/23/96	Pole Mounted Transformer	61AL3919	West Side of New Kiln	ND	1		1294	Westinghouse	S Insuldur Wescor
1B	12/23/96	Transformer in Storage	62AM2029	Building 38, West End	8.7	1		923	Westinghouse	S Insuldur Wescor
2B	12/23/96	Transformer in Storage	62AM4193	Building 38, West End	ND	1		923	Westinghouse	S Insuldur Wescor
3B	12/23/96	Transformer in Storage	692A7033	Building 38, West Middle	672.0	[illegible]		1675	Westinghouse	
4B	12/23/96	Transformer in Storage	692A7036	Building 38, West Middle	439.0	2		1675	Westinghouse	
5B	12/23/96	Transformer in Storage	692A7042	Building 38, East Middle	596.0	[illegible]		1675	Westinghouse	
6B	12/23/96	Transformer in Storage	62AM4196	Building 38, West Middle	ND	1		923	Westinghouse	S Insuldur Wescor
7B	12/23/96	Transformer in Storage	81013	Building 38, East Middle	ND	1	20	150	Marens	
8B	12/23/96	Transformer in Storage	6003130	Building 38, East	ND	1		1340	Westinghouse	
9B	12/23/96	Transformer in Storage	B330194	Building 38, East	561.0	[illegible]	85	650	GE	Spirakote
10B	12/23/96	Transformer in Storage	1810609	Building 38, East	ND	1	251	1870	ESCO Electrical Service Co	
11B	12/23/96	Transformer in Storage	1810608	Building 38, East	ND	1	251	1870	ESCO Electrical Service Co	
12B	12/23/96	Transformer in Storage	577866	Building 38, East	ND	1	122	909	ESCO	
13B	12/23/96	Transformer in Storage	947680	Building 38, East	107.0	2		1330	GE	Distribution
14B	12/23/96	Large Switchgear in Storage	NA	Building 38, Middle	ND	1		NA		
15B	12/23/96	Transformer in Storage	26320	Building 38, West (South Wall)	ND	1				
16B	12/23/96	Oil Filled Electric Electric Switch	NA	Sawmill Main Electric Switch Room	2.0	1		NA		
69A	1/3/97	Pole Mounted Transformer	NA	Behind Powerhouse near Ditch	ND	1			Westinghouse	

Notes

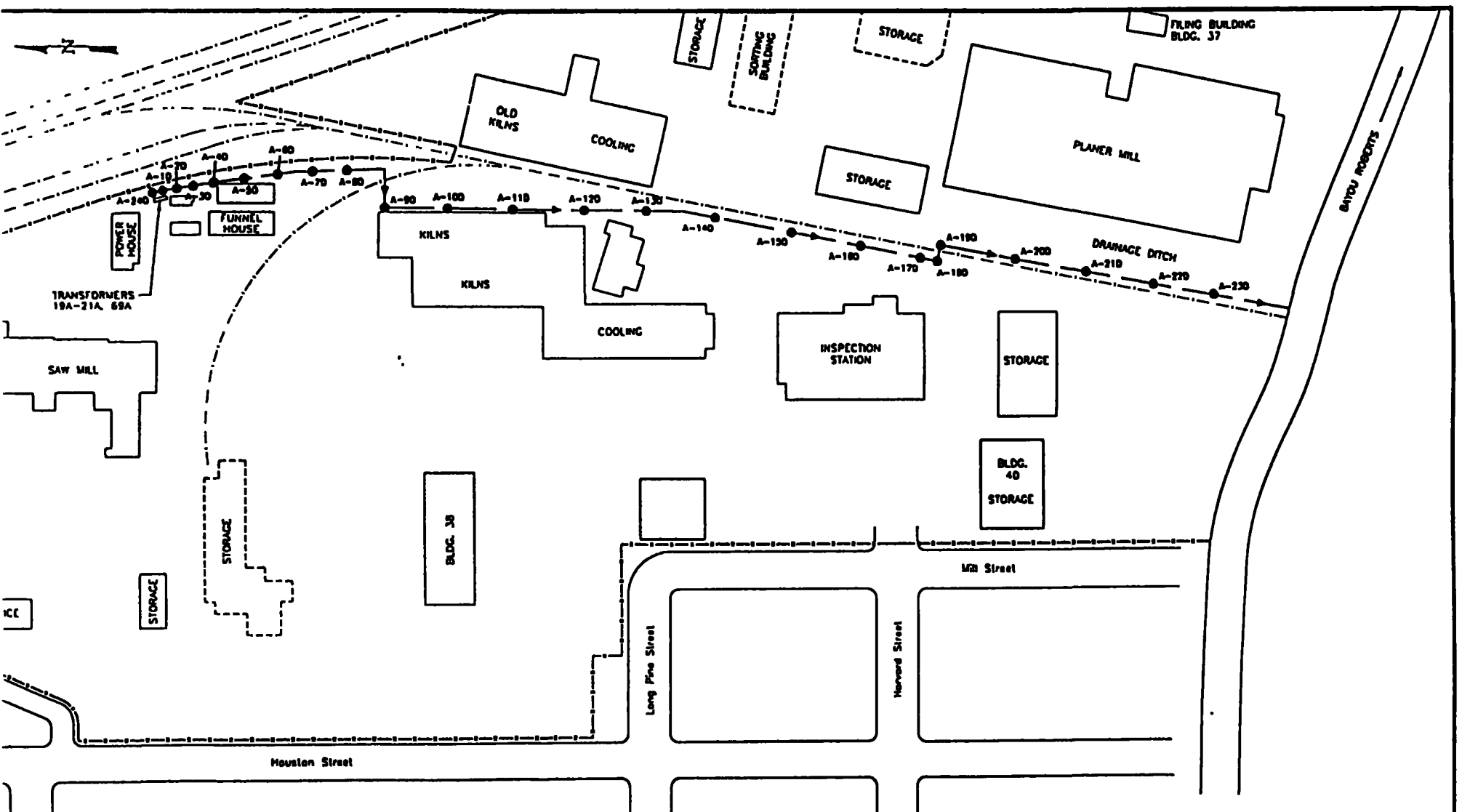
NA - Not Applicable

ND Not Detected at or above the Method Detection Limit

* - Category 1 is associated with PCB concentrations less than 50 ppm Category 2 with PCB concentrations at or between 50 & 499 ppm and Category 3 with PCB concentrations at or greater than 500 ppm

** The weight of the transformer recorded is the total weight (i.e. electrical components and oil) However, if an oil volume is listed the weight corresponds only to that of the oil

*** - The weight listed is the total weight of the transformer carcass and its contents



LEGEND

A-190 APPROXIMATE SEDIMENT SAMPLE LOCATION

RAILROAD TRACKS

PROPERTY BOUNDARY

0 150 300

SCALE FEET

ERM-Southwest, Inc.

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FIGURE 2

SEDIMENT SAMPLE LOCATIONS

Louisiana-Pacific Corporation
Alexandria, Louisiana

DESIGN JMB	CHECKED	DATE: 01/24/87	SHEET NO. 1 of 1

Table 2: Inventory of Sediment Samples
Louisiana-Pacific, Alexandria, Louisiana

Sample ID	*Date Sampled*	*Sediment Sample Location****	*PCBs** (ppm)*
1D	1/15/97	0 ft South of the Potential Source.	0 30
2D	1/15/97	20 ft South of the Potential Source.	ND
3D	1/15/97	40 ft South of the Potential Source.	ND
4D	1/15/97	70 ft South of the Potential Source.	ND
5D	1/15/97	120 ft South of the Potential Source.	ND
6D	1/15/97	170 ft South of the Potential Source.	ND
7D	1/15/97	220 ft South of the Potential Source	ND
8D	1/15/97	270 ft South of the Potential Source.	ND
9D	1/15/97	375 ft South of the Potential Source.	ND
10D	1/15/97	470 ft South of the Potential Source.	ND
11D	1/15/97	570 ft South of the Potential Source.	0 21**
12D	1/15/97	670 ft South of the Potential Source	0.34**
13D	1/15/97	770 ft South of the Potential Source	0 21**
14D	1/15/97	870 ft South of the Potential Source.	ND
15D	1/15/97	980 ft South of the Potential Source.	ND
16D	1/15/97	1080 ft South of the Potential Source.	ND
17D	1/15/97	1180 ft South of the Potential Source.	ND
18D	1/15/97	1280 ft South of the Potential Source.	ND
19D	1/15/97	1345 ft South of the Potential Source.	ND
20D	1/15/97	1380 ft South of the Potential Source.	ND
21D	1/15/97	1480 ft South of the Potential Source	ND
22D	1/15/97	1580 ft South of the Potential Source.	ND
23D	1/15/97	1680 ft South of the Potential Source.	ND
24D	1/16/97	13 ft North of the Potential Source.	ND

Note
* - PCB species Arachlor 1260 unless otherwise noted.
** - PCB species Arachlor 1254.
*** - Sample Locations are described relative to Transformers 19A-21A (i.e. the Potential Source).
ND - Indicates the compound was not detected at or above the method detection limit.

Pertinent information located on the all previously sampled transformers (e g , manufacturer, serial numbers, and volumes), where available, was recorded and labels identifying the PCB classification of each transformer were prominently placed on the outside of the transformers as required by 40 CFR 761 40 (a)(2) Fenced areas, such as electrical substations, containing transformers were further labeled with signs identifying the area as containing PCB materials as required by 40 CFR 761 40 (j)(1)

There were also several capacitors located within drums at the site Available information from labels on the capacitors was recorded by L-P personnel The capacitors were sealed and could not be sampled.

January 29, 1997

On January 29, 1997, ERM-Southwest returned to the site to meet with L-P representatives to discuss the analytical data reported from the samples collected at the site and to review the waste profiles required for disposal of the electrical equipment

The results showed that there were nine (9) transformers considered PCB (greater than 500 ppm PCB) and another twelve (12) that were classified as PCB-Contaminated (between 50 and 499 ppm PCB). The concrete and a small amount of soil in the immediate area of the concrete slab supporting transformers 19A-21A showed elevated levels of PCBs, however no sediment samples from the ditch reported concentrations above the "Quantifiable Level/Level of Detection" of 2 ppm as defined in 40 CFR 761 3

Based on the laboratory data, a decision was made to remove all of the PCB and PCB-contaminated electrical equipment on-site along with affected concrete, soil and debris

February 6, 1997

A representative from EnviroClean met with L-P site personnel to discuss the scope of the removal action Shortly thereafter, the team conducted a brief facility walk through to review the locations of the PCB electrical equipment, soil, and debris Prior to site mobilization, the City of Alexandria disconnected the electrical service to the mill except for that which was connected to the main office and warehouse/maintenance buildings

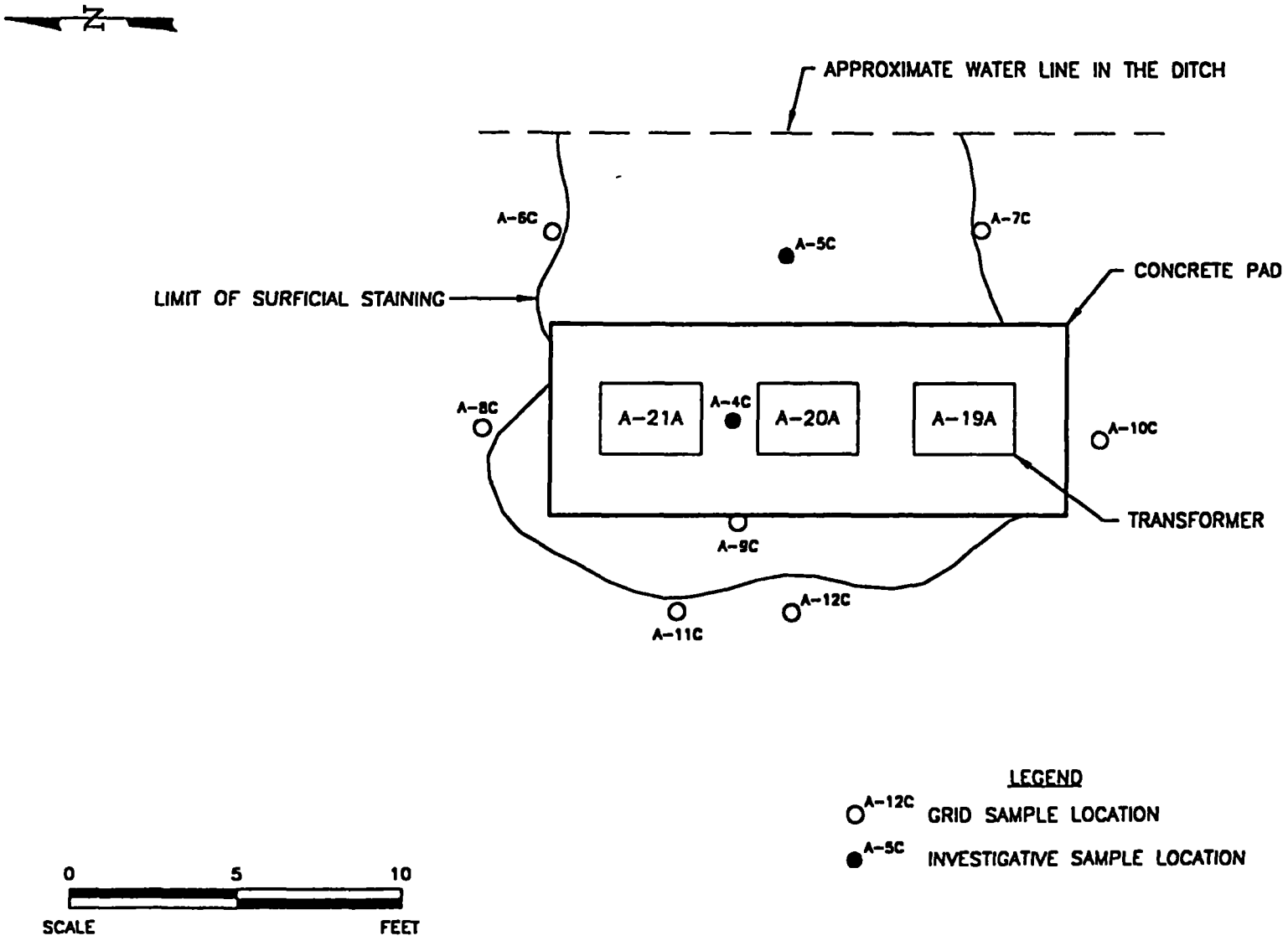
Subsequent to the site walk through, the transformers were checked with a voltage meter to confirm their inactivity Wires extending from bushings present atop the transformers were disconnected where accessible

February 7, 1997

Representatives from EnviroClean met at 0700 to discuss project health and safety issues (i e. review the Field Work Plan and Health and Safety Plan (HASP)) with the subcontractors EnviroClean distributed the HASP to the subcontractors for review and acceptance signature

At 0900, EnviroClean removed the transformers designated as 10A, 11A, and 12A and placed them onto plastic sheeting At 1000 a transport truck arrived and began to load them along with those currently stored under the cover of a canopy Transformer 3B had a broken insulator through which a small amount of oil escaped during an initial attempt to load The transformer was placed on plastic sheeting so the oil could be removed prior to its loading

At 1100, the Drop Deck trailer arrived, but could not access the area where transformers 19A-21A were stored This problem was remedied by positioning a Low-boy trailer adjacent to the transformers, and loading them onto plastic sheeting placed in the trailer bed The transformers were then transferred to the Drop Deck trailer For transport off-site, the transformers were removed from the Drop Deck trailer and placed inside a Van



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ERM.

DATE: 02/27/97

W.O.NO.: 34405A02B97

FIGURE 3
PCB SOIL SAMPLING GRID

Louisiana-Pacific Corporation
Alexandria, Louisiana

Table 3: Inventory of Soil Samples
Louisiana-Pacific, Alexandria, Louisiana

Sample ID	*Date Sampled*	*Soil Sample Location*	*PCBs** *(ppm)*	*TPH* *(ppm)*
1C	12/23/96	Northeast Section of Building 40	ND	68
2C	12/23/96	Central Area of Building 40 close to the East Wall	ND	106
3C	12/23/96	Southeast Section of Building 40	ND	42
4C	12/23/96	Above the Concrete Pad present beneath Transformers 19A-21A	191	158,000
5C	12/23/96	East of Transformers 19A-21A along the West Bank of the Ditch	142	64,900
6C	1/16/97	Grid Sample Collected from the Soil Surrounding Transformers 19A-21A	0 29	NA
7C	1/16/97	Grid Sample Collected from the Soil Surrounding Transformers 19A-21A	0 56	NA
8C	1/16/97	Grid Sample Collected from the Soil Surrounding Transformers 19A-21A	0 7	NA
9C	1/16/97	Grid Sample Collected from the Soil Surrounding Transformers 19A-21A	63	NA
10C	1/16/97	Grid Sample Collected from the Soil Surrounding Transformers 19A-21A	ND	NA
11C	1/16/97	Grid Sample Collected from the Soil Surrounding Transformers 19A-21A	ND	NA
12C	1/16/97	Grid Sample Collected from the Soil Surrounding Transformers 19A-21A	ND	NA
13CA	1/16/97	Approximately Half the Distance between the Eastern Edge of the Concrete Pad beneath Transformers 19A-21A and the Water Line in the Adjacent Ditch. The Soil was Composited from a Depth Interval 0-6".	19	NA
13CB	1/16/97	See 13CA, However, the Soil was Composited from a Depth Interval 6-12".	3 5	NA
13CC	1/16/97	See 13CC; However, the Soil was Composited from a Depth Interval 12-18".	28	NA
1E	1/16/97	Wipe Sample Collected from the Surface of the Concrete Pad beneath Transformers 19A-21A.	0 163 ug/100 sq cm	NA
FB1	1/17/97	Field Blank Collected Northwest of the Main Office Building.	ND	NA
TB1	1/17/97	Trip Blank	ND	NA
14C	2/8/97	Composite Confirmation Sample Collected from the Bottom of the 2/97 Removal Action.	3 0	NA
15C	2/8/97	Composite Confirmation Sample Collected from the Bottom of the 2/97 Removal Action	0 4	NA
16C	2/8/97	Composite Confirmation Sample Collected from the Bottom of the 2/97 Removal Action	ND	NA
17C	2/8/97	Composite Confirmation Sample Collected from the Bottom of the 2/97 Removal Action	2 2	NA

Note
* - PCB species Arachlor 1260.
ND - Indicates the compound was not detected at or above the method detection limit.
NA - Indicates the compound was not analyzed.

At 1300, Chemical Waste Management, Inc delivered the roll-off boxes that were used to store and transport the PCB affected soil and debris

At 1400, transformers 7A and 8A were loaded onto the Drop Deck trailer and into the Van

At 2000, the Van left the site for the Chemical Waste Management's disposal facility in Emelle, Alabama Two transformers (13A and 15A) were unable to be removed because they would have caused the trailer to exceed the Louisiana Department of Transportation and Development (LDOTD) weight restrictions These transformers were loaded and removed on February 11, 1997 (see below), along with previously drummed PCB capacitors, PCB affected personal protective equipment (PPE), and six empty non-PCB transformer carcasses that were removed from Building 40.

From 1500 to 2000 hours, EnviroClean excavated PCB affected soil and debris from the area immediately beneath and surrounding transformers 19A-21A Earthen material in this area was moist and stained as a result of decaying wood and naturally occurring organic matter making the determination of affected material difficult The excavation extended 24 ft north of the City of Alexandria's bank of transformers, and 6 ft north of sampling location shown as A-8C in Figure 3 The reported total PCB concentration of this surficial (0-6") soil sample measured 0 7 ppm

In the other directions, the excavation proceeded laterally to the sampling locations that had previously been shown not to contain detectable concentrations of total PCBs Figure 3 displays the locations of the pre-excavation surficial soil sampling locations that encompassed transformers 19A-21A The excavation depths were determined by visual observation Depths ranged from 0 5 ft at the northernmost limit of the excavation to 2 ft at the southern boundary

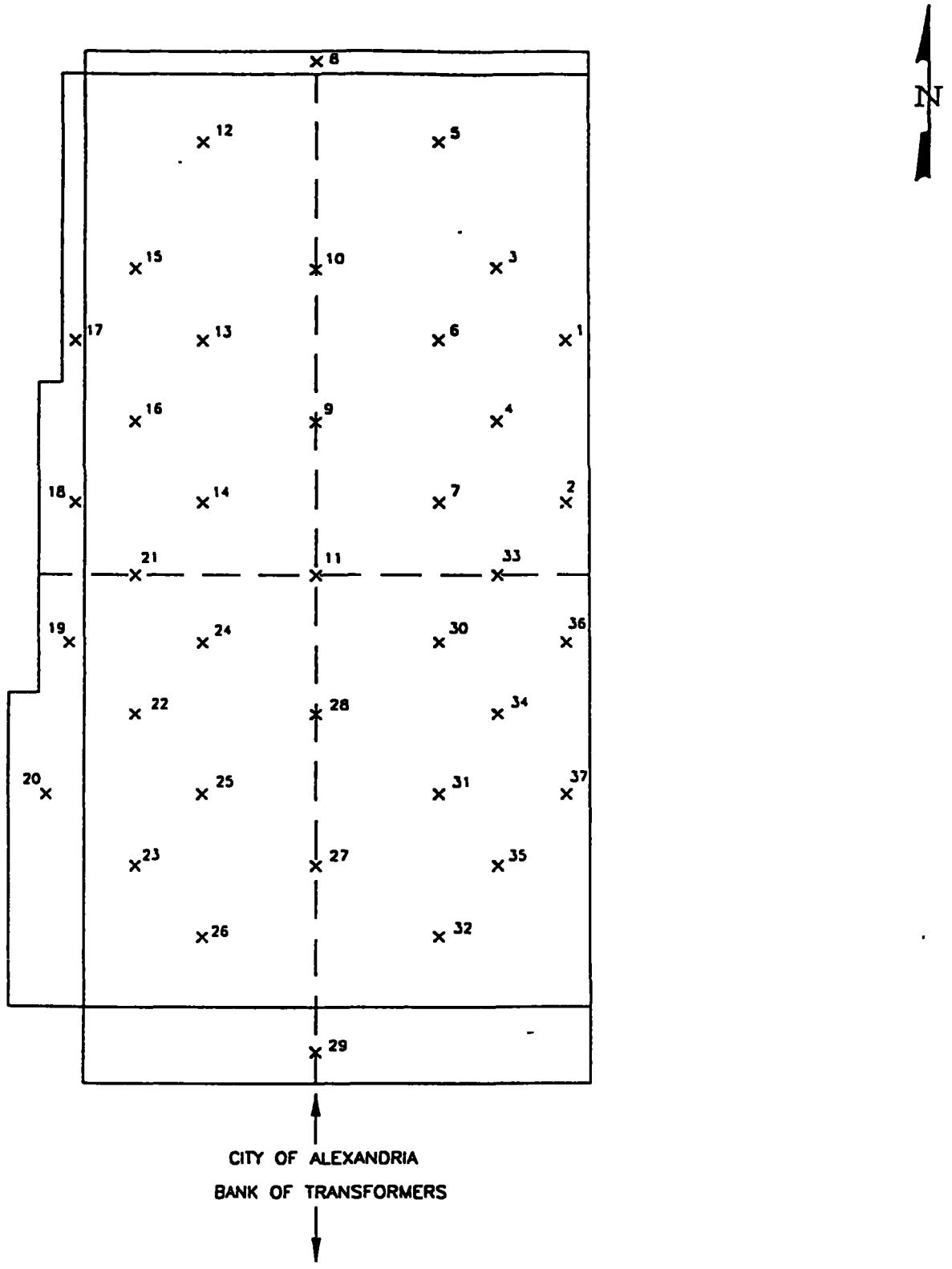
Throughout the course of the removal action, EnviroClean conducted real-time ambient air monitoring to quantify levels of ambient particulate matter since this was the primary exposure pathway This effort was hampered due to continual light rain The potential for constituent migration via the air pathway is unlikely due to the saturated condition of the soil Recorded levels in the immediate area of excavation were 0 01-0 04 mg/m^3 and did not exceed background concentrations collected directly outside the Alexandria site's main office (0 04 mg/m^3).

February 8, 1997

After removing the visibly affected material, EnviroClean established a confirmatory sampling grid at the bottom of the excavation pursuant to criteria listed in the *Field Manual for Grid Sampling of PCB Spill Sites to Verify Cleanup*, (EPA document 560/5-86-017) dated May 1986 The final extent of the excavation measured 24 ft by 13 ft As a result, 37 sample points were used to confirm acceptable total PCB concentrations in the remaining soils. (See Figure 4.) Sample material was obtained from each location using a disposable polyethylene scoop Four composites were formed from these grab samples, these were submitted to Core Labs in Houston, Texas In accordance with 40 CFR 761 125(c)(4)(v), soils were decontaminated to less than 10 ppm total PCBs, the most restrictive cleanup criteria typically used for areas with unlimited public access This standard is much lower than the 25 ppm cleanup criteria established for areas, such as this site, which has restricted public access Analytical results of the confirmatory samples are included in Attachment C and listed in Table 3 along with the pre-excavation sampling data

February 11, 1997

EnviroClean arrived at the site at 0700 and met briefly with L-P site personnel to discuss remaining Phase I activities (i e loading of two PCB transformers, six drums containing PCB affected PPE and capacitors, and six empty transformer carcasses) EnviroClean placed two additional capacitors,



NOTES

1 SOIL SAMPLE 14C WAS COMPOSITED FROM LOCATIONS 1–9
2. SOIL SAMPLE 15C WAS COMPOSITED FROM LOCATIONS 10–18.
3. SOIL SAMPLE 16C WAS COMPOSITED FROM LOCATIONS 14–27.
4 SOIL SAMPLE 17C WAS COMPOSITED FROM LOCATIONS 28–36.

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DATE. 02/17/97

W O NO.. 34405A04897

FIGURE 4
PCB SOIL SAMPLING GRID
PHASE I REMOVAL ACTION
Louisiana Pacific Corporation
Alexandria, Louisiana

recently located by L-P site personnel, into drums PPE and plastic used during the project were also drummed at this time

At 1145, a flat bed trailer arrived on site and began loading the items described above Approximately one hour later the truck departed and proceeded to the Chemical Waste Management disposal facility in Emelle, Alabama

EnviroClean then visited a borrow pit in Marksville, Louisiana to sample the potential source of backfill material The backfill will be analyzed for priority pollutants and total PCBs prior to site restoration

February 28, 1997

EnviroClean received the results of the backfill analyses from Core Labs The data indicate that the soil is acceptable for use as backfill. Analytical results are provided as Attachment D and summarized in Table 5

The confirmatory soil samples contained total PCBs less than or equal to 3 0 ppm, well below the permissible limit of 10 ppm established by EPA for areas with non-restricted public access The excavation was backfilled upon receipt of analytical results reporting acceptable concentrations of constituents in the clean backfill source. Prior to commencing backfill, a verneer of lime was placed at the bottom of the excavation to demarcate the boundary between imported and native soils

11. Explain in detail all measures taken or to be taken to ensure that the violation disclosed will not be repeated. Include in your discussion any improvements made to LPC's environmental auditing or due diligence efforts in any attempt to prevent recurrence of the violation.

L-P has undertaken several measures to ensure that PCB violations will not recur at its facilities

- All of L-Ps sites in the Southern US[3] have been visited by L-P or contractor environmental personnel to confirm that the reported status of PCBs at the site is accurate (i e , is all PCB containing equipment appropriately marked and monitored),

- L-P has retained EMCON Environmental to design a training module on PCBs which will be administered as part of other training sessions, or as a separate training session at L-P sites in the Southern US over the next year

- PCB-containing equipment has been removed from many of the Southern US sites. L-P management is preparing a directive to all sites instructing them to replace all PCB-containing equipment at all sites by the end of 2000 Progress against this plan will be monitored by Regional environmental personnel and through environmental audits.

12. Did the violation result in any serious actual harm to human health or the environment? Provide a full explanation of how this conclusion was reached.

No. ERM-Southwest conducted sampling to determine whether any PCBs migrated from the pad on which the spill occurred They concluded that there had been no migration beyond the stained soil near the pad That stained soil was fully remediated, as indicated above Based upon discussions with personnel at the site, the fact that the facility has not had any substantial operations for seven years, and the fact that there was very little migration from the pad, we do not believe that there has been any serious actual harm to human health or the environment

[3] The Southern US includes Texas, Louisiana, Mississippi, Alabama, Florida, Georgia, South Carolina and North Carolina

Table 4. Backfill Analytical Results
Louisiana-Pacific, Alexandria, Louisiana

Metals	*Concentration (mg/L)* *	*PCBs*	*Concentration (mg/L)*	*Volatiles*	*Concentration (mg/L)*	*Semivolatiles*	*Concentration (mg/L)*
Antimony	ND	Aroclor-1016	ND	Acrolein	ND	Acenaphthene	ND
Arsenic	1 4	Aroclor-1221	ND	Acrylonitrile	ND	Acenaphthylene	ND
Beryllium	ND	Aroclor-1232	ND	Benzene	ND	Anthracene	ND
Cadmium	ND	Aroclor-1242	ND	Bromoform	ND	Benzidine	ND
Chromium	5 1	Aroclor-1248	ND	Carbon tetrachloride	ND	Benzo(a)anthracene	ND
Copper	3 2	Aroclor-1254	ND	Chlorobenzene	ND	Benzo(a)pyrene	ND
Lead	2 6	Aroclor-1260	ND	Chlorodibromomethane	ND	Benzo(b)fluoranthene	ND
Nickel	5 0			Chloroethane	ND	Benzo(ghi)perylene	ND
Selenium	ND			2-Chloroethylvinyl ether	ND	Benzo(k)fluoranthene	ND
Silver	ND			Chloroform	ND	bis(2-Chloroethoxy)methane	ND
Thallium	ND			Bromodichloromethane	ND	bis(2-Chloroethyl)ether	ND
Zinc	10 3			1,1-Dichloroethane	ND	2,2'-oxybis(1-Chloropropane)	ND
				1,2-Dichloroethane	ND	bis(2-Ethylhexyl)phthalate	ND
				1,1-Dichloroethene	ND	4-Bromophenyl phenylether	ND
				trans-1,2-Dichloroethene	ND	Butylbenzyl phthalate	ND
				1,2-Dichloropropane	ND	2-Chloronaphthalene	ND
				cis-1,3-Dichloropropene	ND	4-Chlorophenyl-phenylether	ND
				trans-1,3-Dichloropropene	ND	Chrysene	ND
				Ethylbenzene	ND	Dibenzo(a h)anthracene	ND
				Bromomethane	ND	1,2-Dichlorobenzene	ND
				Chloromethane	ND	1,3-Dichlorobenzene	ND
				Dichloromethane	ND	1,4-Dichlorobenzene	ND
				1,1,2,2-Tetrachloroethane	ND	3,3'-Dichlorobenzidine	ND
				Tetrachloroethene	ND	Diethylphthalate	ND
				Toluene	ND	Dimethylphthalate	ND
				1,1,1-Trichloroethane	ND	Di-n-butyl phthalate	ND
				1,1,2-Trichloroethane	ND	2,4-Dinitrotoluene	ND
				Trichloroethene	ND	2,6-Dinitrotoluene	ND
				Trichlorofluoromethane	ND	Di-n-octyl phthalate	ND
				Vinyl Chloride	ND	1,2-Diphenylhydrazine	ND
						Fluoranthene	ND
						Fluorene	ND
						Hexachlorobenzene	ND
						Hexachloro-1,3-butadiene	ND
						Hexachlorocyclopentadiene	ND
						Hexachloroethane	ND
						Indeno(1,2 3-cd)pyrene	ND
						Isophorone	ND
						Naphthalene	ND
						Nitrobenzene	ND
						N-Nitrosodimethylamine	ND
						N-Nitrosodi-n-propylamine	ND
						N-Nitrosodiphenylamine	ND
						Phenanthrene	ND
						Pyrene	ND
						1,2 4-Trichlorobenzene	ND
						2-Chlorophenol	ND
						2,4-Dichlorophenol	ND
						2 4-Dimethylphenol	ND
						4,6-Dinitro-o-cresol	ND
						2,4-Dinitrophenol	ND
						2-Nitrophenol	ND
						4-Nitrophenol	ND
						4-Chloro-3-methylphenol	ND
						Pentachlorophenol	ND
						Phenol	ND
						2,4,6-Trichlorophenol	ND

Notes
* - Results of the analysis were compared to mean concentrations of elements in samples of soils in the conterminous U S listed in USGS Professional Paper 1270

The ERM-Southwest sampling results are attached

13. Did the violation present or may it present, any form of endangerment to public health or the environment? Provide a full explanation of how this conclusion was reached.

Based upon the sampling and analysis discussed above, L- P has concluded that there was no endangerment of public health or the environment

14. Did the violation violate the specific terms of a judicial or administrative order or consent agreement? If so, please identify the order or agreement.

No.

Attachment A

Analytical Results from PCB Oil Samples, Sediment Samples and Soil Samples

Louisiana-Pacific Corporation
Alexandria, Louisiana

CORELAB

GULF STATES ANALYTICAL

01/14/97

Mr. Robert Berg
ERM-Southwest, Inc.
3501 N. Causeway, Ste. 200
Metairie, LA 70002

Reference:
Project: Preliminary Phase II Sampling
Date Received: 12/24/96
GSA Group: 25775 Group Report Date: 01/14/97

Dear Mr. Berg:

Enclosed are the analytical results for your above referenced project. The following samples are included in the report.

1A :137753	2A :137754	3A :137755
4A :137756	5A :137757	6A :137758
7A :137759	8A :137760	9A :137761
10A :137762	11A :137763	12A :137764
13A :137765	14A :137766	15A :137767
16A :137768	17A :137769	18A :137770
19A :137771	20A :137772	21A :137773
22A :137774	23A :137775	24A :137776
25A :137777	26A :137778	27A :137779
28A :137780	29A :137781	30A :137782
31A :137783	32A :137784	33A :137785
1C :137786	2C :137787	3C :137788
4C :137789	5C :137790	1B :137807
2B :137808	3B :137809	4B :137810
5B :137811	6B :137812	7B :137813
8B :137814	9B :137815	10B :137816
11B :137817	12B :137818	13B :137819
14B :137820	15B :137821	16B :137822
Trip Blank :137824		

All holding times were met for the tests performed on these samples.

Our A2LA accreditation requires that, should this report be reproduced, it must be reproduced in total.

Enclosed please find the Quality Control Summary. All quality control results for the QC batch that are applicable to this sample(s) are acceptable except as noted in the QC batch reports.

01/14/97

Reference:
Project: Preliminary Phase II Sampling
Date Received: 12/24/96
GSA Group: 25775 Group Report Date: 01/14/97

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting Core Lab - Gulf States Analytical to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

Sincerely yours,

Lora Dunlap
Project Manager

Reference 11

code of federal regulations

Protection of Environment

Ecology and Environment, Inc.
Technical Assistance Team
1509 Main Street, Suite 1500
Dallas, TX 75201
(214) 742-6801

40

PARTS 700 TO 789

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1985

vinyl siding, cinder block, asphalt tiles), and pipes.

"Impervious solid surfaces" means solid surfaces which are nonporous and thus unlikely to absorb spilled PCBs within the short period of time required for cleanup of spills under this policy. Impervious solid surfaces include, but are not limited to, metals, glass, aluminum siding, and enameled or laminated surfaces.

"Low-concentration PCBs" means PCBs that are tested and found to contain less than 500 ppm PCBs, or those PCB-containing materials which EPA requires to be assumed to be at concentrations below 500 ppm (i.e., untested mineral oil dielectric fluid).

"Nonimpervious solid surfaces" means solid surfaces which are porous and are more likely to absorb spilled PCBs prior to completion of the cleanup requirements prescribed in this policy. Nonimpervious solid surfaces include, but are not limited to, wood, concrete, asphalt, and plasterboard.

"Nonrestricted access areas" means any area other than restricted access, outdoor electrical substations, and other restricted access locations, as defined in this section. In addition to residential/commercial areas, these areas include unrestricted access rural areas (areas of low density development and population where access is uncontrolled by either man-made barriers or naturally occurring barriers, such as rough terrain, mountains, or cliffs).

"Other restricted access (nonsubstation) locations" means areas other than electrical substations that are at least 0.1 kilometer (km) from a residential/commercial area and limited by man-made barriers (e.g., fences and walls) to substantially limited by naturally occurring barriers such as mountains, cliffs, or rough terrain. These areas generally include industrial facilities and extremely remote rural locations. (Areas where access is restricted but are less than 0.1 km from a residential/commercial area are considered to be residential/commercial areas.)

"Outdoor electrical substations" means outdoor, fenced-off, and restricted access areas used in the transmission and/or distribution of electrical power Outdoor electrical substations restrict public access by being fenced or walled off as defined under § 761.30(l)(1)(ii). For purposes of this TSCA policy, outdoor electrical substations are defined as being located at least 0.1 km from a residential/commercial area. Outdoor fenced-off and restricted access areas used in the transmission and/or distribution of electrical power which are located less than 0.1. km from a residential/commercial area are considered to be residential/commercial areas.

"PCBs" means polychlorinated biphenyls as defined under § 761.3. As specified under § 761.1(b), no requirements may be avoided through dilution of the PCB concentration.

"Requirements and standards" means:

(1) "Requirements" as used in this policy refers to both the procedural responses and numerical decontamination levels set forth in this policy as constituting adequate cleanup of PCBs.

(2) "Standards" refers to the numerical decontamination levels set forth in this policy.

"Residential/commercial areas" means those areas where people live or reside, or where people work in other than manufacturing or farming industries. Residential areas include housing and the property on which housing is located, as well as playgrounds, roadways, sidewalks, parks, and other similar areas within a residential community. Commercial areas are typically accessible to both members of the general public and employees and include public assembly properties, institutional properties, stores, office buildings, and transportation centers.

"Responsible party means the owner of the PCB equipment, facility, or other source of PCBs or his/her designated agent (e.g., a facility manager or foreman).

"Soil" means all vegetation, soils and other ground media, including but not limited to, sand, grass , gravel, and oyster shells. It does not include concrete and asphalt.

"Spill" means both intentional and unintentional spills, leaks, and other uncontrolled discharges where the release results in any quantity of PCBs running off or about the surface or seeping off the external surface of the equipment or other PCB source, as well as the contamination resulting from those releases. This policy applies to spills of 50 ppm or greater PCBs. The concentration of PCBs spilled is determined by the PCB concentration in the material spilled as opposed to the concentration of PCBs in the material onto which the PCBs were spilled. Where a spill of untested mineral oil occurs, the oil is presumed to contain greater than 50 ppm, but less than 500 ppm PCBs and is subject to the relevant requirements of this policy.

"Spill area" means the area of soil on which visible traces of the spill can be observed plus a buffer zone of 1 foot beyond the visible traces. Any surface or object (e.g., concrete sidewalk or automobile) within the visible traces area or on which visible traces of the spilled material are observed is included in the spill area. This area represents the minimum area assumed to be contaminated by PCBs in the absence of precleanup sampling data and is thus the minimum area which must be cleaned.

"Spill boundaries" means the actual area of contamination as determined by postcleanup verification sampling or by precleanup sampling to determine actual spill boundaries. EPA can require additional cleanup when necessary to decontaminate all areas within the spill boundaries to the levels required in this policy (e.g., additional cleanup will be required if postcleanup sampling indicates that the area decontaminated by the responsible party, such as the spill area as defined in this section, did not encompass the actual boundaries of PCB contamination).

"Standard wipe test" means, for spills of high-concentration PCBs on solid surfaces, a cleanup to numerical surface standards and sampling by a standard wipe test to verify that the numerical standards have been met. This definition constitutes the minimum requirements for an appropriate wipe testing protocol. A standard-size template (10 centimeters (cm) x 10 cm) will be used to delineate the area of cleanup; the wiping medium will be a gauze pad or glass wool of known size which has been saturated with hexane. It is important that the wipe be performed very quickly after the hexane is exposed to air. EPA strongly recommends that the gauze (or glass wool) be prepared with hexane in the laboratory and that the wiping medium be stored in sealed glass vials until it is used for the wipe test. Further, EPA requires the collection and testing of field blanks and replicates.

[52 FR 10705, Apr. 2, 1987; 52 FR 23397, June 19, 1987]

§ 761.125 Requirements for PCB spill cleanup.

(a) *General.* Unless expressly limited, the reporting, disposal, and precleanup sampling requirements in paragraphs (a) (1) through (3) of this section apply to all spills of PCBs at concentrations of 50 ppm or greater which are subject to decontamination requirements under TSCA, including those spills listed under § 761.120(b) which are excluded from the cleanup standards at paragraphs (b) and (c) of this section.

(1) *Reporting requirements.* The reporting in paragraphs (a)(1) (i) through (iv) of this section is required in addition to applicable reporting requirements under the Clean Water Act (CWA) or the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA). For example, under the National Contingency Plan all spills involving 10 pounds or more by weight of PCBs must currently be reported to the National Response Center (1-800-424-8802). The requirements in paragraphs (a)(1) (i) through (iv) of this section are designed to be consistent with existing reporting requirements to the extent possible so as to minimize reporting burdens on governments as well as the regulated community.

(i) Where a spill directly contaminates surface water, sewers, or drinking water supplies, as discussed under § 761.120(d), the responsible party shall notify the appropriate EPA regional office (the Office of Pesticides and Toxic Substances Branch) and obtain guidance for appropriate cleanup measures in the shortest possible time after discovery, but in no case later than 24 hours after discovery.

(ii) Where a spill directly contaminates grazing lands or vegetable gardens, as discussed under § 761.120(d), the responsible party shall notify the appropriate EPA regional office (the Office of Pesticides and Toxic Substances Branch) and proceed with the immediate requirements specified under paragraph (b) or (c) of this section, depending on the source of the spill, in the shortest possible time after discovery, but in no case later than 24 hours after discovery

(iii) Where a spill exceeds 10 pounds of PCBs by weight and is not addressed in paragraph (a)(1) (i) or (ii) of this section, the responsible party will notify the appropriate EPA regional office (Pesticides and Toxic Substances Branch) and proceed to decontaminate the spill area in accordance with this TSCA policy in the shortest possible time after discovery, but in no case later than 24 hours after discovery.

(iv) Spills of 10 pounds or less, which are not addressed in paragraph (a)(1) (i) or (ii) of this section, must be cleaned up in accordance with this policy (in order to avoid EPA enforcement liability), but notification of EPA is not required.

(2) *Disposal of cleanup debris and materials.* All concentrated soils, solvents, rags, and other materials resulting from the cleanup of PCBs under this policy shall be properly stored, labeled, and disposed of in accordance with the provisions of § 761.60.

(3) *Determination of spill boundaries in the absence of visible traces.* For spills where there are insufficient visible traces yet there is evidence of a leak or spill, the boundaries of the spill are to be determined by using a statistically based sampling scheme.

(b) *Requirements for cleanup of low-concentration spills which involve less than 1 pound of PCBs by weight (less than 270 gallons of untested mineral oil)*—(1) *Decontamination requirements.* Spills of less than 270 gallons of untested mineral oil, low-concentration PCBs, as defined under § 761.123, which involve less than 1 pound of PCBs by weight (e.g., less than 270 gallons of untested mineral oil containing less than 500 ppm PCBs) shall be cleaned in the following manner:

(i) Solid surfaces must be double washed/rinsed (as defined under § 761.123); except that all indoor, residential surfaces other than vault areas must be cleaned to 10 micrograms per 100 square centimeters (10 $\mu g/100\ cm^2$) by standard commercial wipe tests.

(ii) All soil within the spill area (i.e., visible traces of soil and a buffer of 1 lateral foot around the visible traces) must be excavated, and the ground be restored to its original configuration by back-filling with clean soil (i.e., containing less than 1 ppm PCBs).

(iii) Requirements of paragraphs (b)(1) (i) and (ii) of this section must be completed within 48 hours after the responsible party was notified or became aware of the spill.

(2) *Effect of emergency or adverse weather.* Completion of cleanup may be delayed beyond 48 hours in case of circumstances including but not limited to, civil emergency, adverse weather conditions, lack of access to the site, and emergency operating conditions. The occurrence of a spill on a weekend or overtime costs are not acceptable reasons to delay response. Completion of cleanup may be delayed only for the duration of the adverse conditions. If the adverse weather conditions, or time lapse due to other emergency, has left insufficient visible traces, the responsible party must use a statistically based sampling scheme to determine the spill boundaries as required under paragraph (a)(3) of this section.

(3) *Records and certification.* At the completion of cleanup, the responsible party shall document the cleanup with records and certification of decontamination. The records and certification must be maintained for a period of 5 years. The records and certification shall consist of the following:

(i) Identification of the source of the spill (e.g., type of equipment).

(ii) Estimated or actual date and time of the spill occurrence.

(iii) The date and time cleanup was completed or terminated (if cleanup was delayed by emergency or adverse weather: the nature and duration of the delay).

(iv) A brief description of the spill location.

(v) Precleanup sampling data used to establish the spill boundaries if required because of insufficient visible traces, and a brief description of the sampling methodology used to establish the spill boundaries.

(vi) A brief description of the solid surfaces cleaned and of the double wash/rinse method used.

(vii) Approximate depth of soil excavation and the amount of soil removed.

(viii) A certification statement signed by the responsible party stating that the cleanup requirements have been met and that the information contained in the record is true to the best of his/her knowledge.

(ix) While not required for compliance with this policy, the following information would be useful if maintained in the records:

(A) Additional pre- or post-cleanup sampling.

(B) The estimated cost of the cleanup by man-hours, dollars, or both.

(c) *Requirements for cleanup of high-concentration spills and low-concentration spills involving 1 pound or more PCBs by weight (270 gallons or more of untested mineral oil).* Cleanup of low-concentration spills involving 1 lb or more PCBs by weight and of all spills of materials other than low-concentration materials shall be considered complete if all of the immediate requirements, cleanup standards, sampling, and recordkeeping requirements of paragraphs (c) (1) through (5) of this section are met.

(1) *Immediate requirements.* The four actions in paragraphs (c)(1) (i) through (iv) of this section must be taken as quickly as possible and within no more than 24 hours (or within 48 hours for PCB Transformers) after the responsible party was notified or became aware of the spill, except that actions described in paragraphs (c)(1) (ii) through (iv) of this section can be delayed beyond 24 hours if circumstances (e.g., civil emergency, hurricane, tornado, or other similar adverse weather conditions, lack of access due to physical impossibility, or emergency operating conditions) so require for the duration of the adverse conditions. The occurrence of a spill on a weekend or overtime costs are not acceptable reasons to delay response. Owners of spilled PCBs who have delayed cleanup because of these types of circumstances must keep records documenting the fact that circumstances precluded rapid response.

(i) The responsible party shall notify the EPA regional office and the NRC as required by § 761.125(a)(1) or by other applicable statutes.

(ii) The responsible party shall effectively cordon off or otherwise delineate and restrict an area encompassing any visible traces plus a 3-foot buffer and place clearly visible signs advising persons to avoid the area to minimize the spread of contamination as well as the potential for human exposure.

(iii) The responsible party shall record and document the area of visible contamination, noting the extent of the visible trace areas and the center of the visible trace area. If there are no visible traces, the responsible party shall record this fact and contact the regional office of the EPA for guidance in completing statistical sampling of the spill area to establish spill boundaries.

(iv) The responsible party shall initiate cleanup of all visible traces of the fluid on hard surfaces and initiate removal of all visible traces of the spill on soil and other media, such as gravel, sand, oyster shells, etc.

(v) If there has been a delay in reaching the site and there are insufficient visible traces of PCBs remaining at the spill site, the responsible party must estimate (based on the amount of material missing from the equipment or container) the area of the spill and immediately cordon off the area of suspect contamination. The responsible party must then utilize a statistically based sampling scheme to identify the boundaries of the spill area as soon as practicable.

(vi) Although this policy requires certain immediate actions, as described in paragraphs (c)(1)(i) through (iv) of this section, EPA is not placing a time limit on completion of the cleanup effort since the time required for completion will vary from case to case. However, EPA expects that decontamination will be achieved promptly in all cases and will consider promptness of completion in determining whether the responsible party

made good faith efforts to clean up in accordance with this policy.

(2) *Requirements for decontaminating spills in outdoor electrical substations.* Spills which occur in outdoor electrical substations, as defined under § 761.123, shall be decontaminated in accordance with paragraphs (c)(2)(i) and (ii) of this section. Conformance to the cleanup standards under paragraphs (c)(2)(i) and (ii) of this section shall be verified by post-cleanup sampling as specified under § 761.130. At such times as outdoor electrical substations are converted to another use, the spill site shall be cleaned up to the nonrestricted access requirements under paragraph (c)(4) of this section.

(i) Contaminated solid surfaces (both impervious and non-impervious) shall be cleaned to a PCB concentration of 100 micrograms (μg)/100 square centimeters (cm^2) (as measured by standard wipe tests).

(ii) At the option of the responsible party, soil contaminated by the spill will be cleaned either to 25 ppm PCBs by weight, or to 50 ppm PCBs by weight provided that a label or notice is visibly placed in the area. Upon demonstration by the responsible party that cleanup to 25 ppm or 50 ppm will jeopardize the integrity of the electrical equipment at the substation, the EPA regional office may establish an alternative cleanup method or level and place the responsible party on a reasonably timely schedule for completion of cleanup.

(3) *Requirements for decontaminating spills in other restricted access areas.* Spills which occur in restricted access locations other than outdoor electrical substations, as defined under § 761.123, shall be decontaminated in accordance with paragraphs (c)(3) (i) through (v) of this section. Conformance to the cleanup standards in paragraphs (c)(3) (i) through (v) of this section shall be verified by post-cleanup sampling as specified under § 761.130. At such times as restricted access areas other than outdoor electrical substations are converted to another use, the spill site shall be cleaned up to the nonrestricted access area requirements of paragraph (c)(4) of this section.

(i) High-contact solid surfaces, as defined under § 761.163 shall be cleaned to 10 μg/100 cm^2 (as measured by standard wipe tests).

(ii) Low-contact, indoor, impervious solid surfaces will be decontaminated to 10 μg/100 cm^2.

(iii) At the option of the responsible party, low-contact, indoor, nonimpervious surfaces will be cleaned either to 10 μg/100 cm^2 or to 100 μg/100 cm^2 and encapsulated. The Regional Administrator, however, retains the authority to disallow the encapsulation option for a particular spill situation upon finding that the uncertainties associated with that option pose special concerns at that site. That is, the Regional Administrator would not permit encapsulation if he/she determined that if the encapsulation failed the failure would create an imminent hazard at the site.

(iv) Low-contact, outdoor surfaces (both impervious and nonimpervious) shall be cleaned to 100 μg/100 cm^2.

(v) Soil contaminated by the spill will be cleaned to 25 ppm PCBs by weight.

(4) *Requirements for decontaminating spills in nonrestricted access areas.* Spills which occur in nonrestricted access locations, as defined under § 761.123, shall be decontaminated in accordance with paragraphs (c)(4)(i) through (v) of this section. Conformance to the cleanup standards at paragraphs (c)(4)(i) through (v) of this section shall be verified by post-cleanup sampling as specified under § 761.130.

(i) Furnishings, toys, and other easily replaceable household items shall be disposed of in accordance with the provisions of § 761.60 and replaced by the responsible party.

(ii) Indoor solid surfaces and high-contact outdoor solid surfaces, defined as high contact residential/commercial surfaces under § 761.123, shall be cleaned to 10 μg/100 cm^2 (as measured by standard wipe tests).

(iii) Indoor vault areas and low-contact, outdoor, impervious solid surfaces shall be decontaminated to 10 μg/100 cm^2.

(iv) At the option of the responsible party, low-contact, outdoor, nonimpervious solid surfaces shall be either

cleaned to 10 μg/100 cm^2 or cleaned to 100 μg/100 cm^2 and encapsulated. The Regional Administrator, however, retains the authority to disallow the encapsulation option for a particular spill situation upon finding that the uncertainties associated with that option pose special concerns at that site. That is, the Regional Administrator would not permit encapsulation if he/she determined that if the encapsulation failed the failure would create an imminent hazard at the site.

(v) Soil contaminated by the spill will be decontaminated to 10 ppm PCBs by weight provided that soil is excavated to a minimum depth of 10 inches. The excavated soil will be replaced with clean soil, i.e., containing less than 1 ppm PCBs, and the spill site will be restored (e.g., replacement of turf).

(5) *Records.* The responsible party shall document the cleanup with records of decontamination. The records must be maintained for a period of 5 years. The records and certification shall consist of the following:

(i) Identification of the source of the spill, e.g., type of equipment.

(ii) Estimated or actual date and time of the spill occurrence.

(iii) The date and time cleanup was completed or terminated (if cleanup was delayed by emergency or adverse weather: the nature and duration of the delay).

(iv) A brief description of the spill location and the nature of the materials contaminated. This information should include whether the spill occurred in an outdoor electrical substation, other restricted access location, or in a nonrestricted access area.

(v) Precleanup sampling data used to establish the spill boundaries if required because of insufficient visible traces and a brief description of the sampling methodology used to establish the spill boundaries.

(vi) A brief description of the solid surfaces cleaned.

(vii) Approximate depth of soil excavation and the amount of soil removed.

(viii) Postcleanup verification sampling data and, if not otherwise apparent from the documentation, a brief description of the sampling methodology and analytical technique used.

(ix) While not required for compliance with this policy, information on the estimated cost of cleanup (by man hours, dollars, or both) would be useful if maintained in the records.

[52 FR 10705, Apr. 2, 1987, as amended at 53 FR 40884, Oct. 19, 1988]

§761.130 Sampling requirements.

Postcleanup sampling is required to verify the level of cleanup under § 761.125(c) (2) through (4). The responsible party may use any statistically valid, reproducible, sampling scheme (either random samples or grid samples) provided that the requirements of paragraphs (a) and (b) of this section are satisfied.

(a) The sampling area is the greater of (1) an area equal to the area cleaned plus an additional 1-foot boundary, or (2) an area 20 percent larger than the original area of contamination.

(b) The sampling scheme must ensure 95 percent confidence against false positives.

(c) The number of samples must be sufficient to ensure that areas of contamination of a radius of 2 feet or more within the sampling area will be detected, except that the minimum number of samples is 3 and the maximum number of samples is 40.

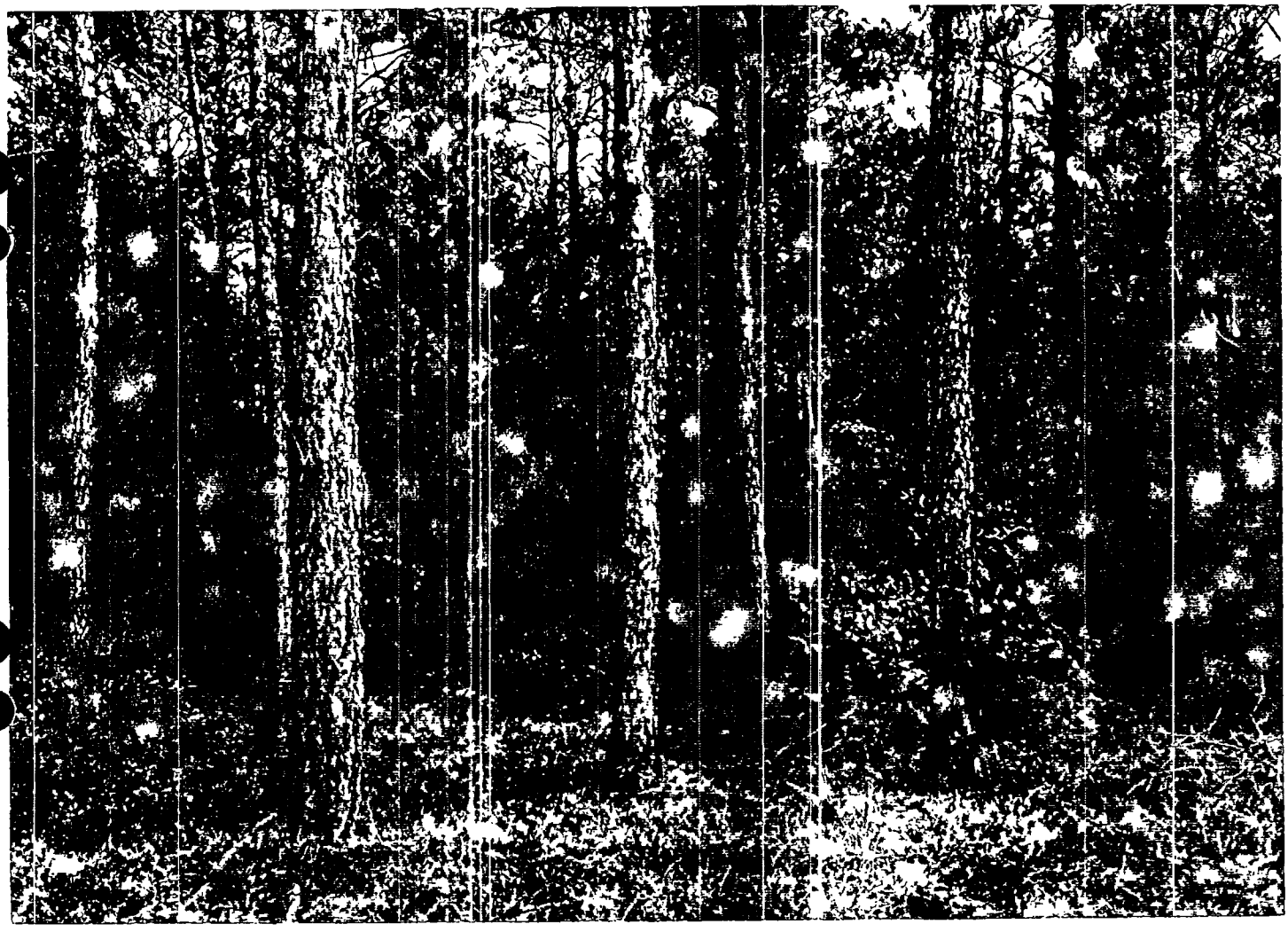
(d) The sampling scheme must include calculation for expected variability due to analytical error.

(e) EPA recommends the use of a sampling scheme developed by the Midwest Research Institute (MRI) for use in EPA enforcement inspections "Verification of PCB Spill Cleanup Sampling and Analysis." Guidance for the use of this sampling scheme is available in the MRI report "Field Manual for Grid Sampling of PCB Spill Sites to Verify Cleanup." Both the MRI sampling scheme and the guidance document are available from the TSCA Assistance Office, Environmental Protection Agency, Rm. E-5[illegible], 401 M St. SW., Washington, DC 20[illegible] (202-554-1404). The major advantage of this sampling scheme is that it is designed to characterize the degree of contamination within the entire sa[illegible]

Reference 12

SOIL SURVEY OF

Rapides Parish, Louisiana



United States Department of Agriculture
Soil Conservation Service and
Forest Service
In cooperation with
Louisiana Agricultural Experiment Station

Reference 13

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118
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GEOLOGY

OF

AVOYELLES AND RAPIDES PARISHES

Geological Bulletin No 18

Published by
DEPARTMENT OF CONSERVATION
LOUISIANA GEOLOGICAL SURVEY
New Orleans, La
September 1940

Reference 14

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

BATON ROUGE

WELLRQ3A - REGISTERED WATER WELLS IN RAPIDES -- SORTED BY OWNER'S NAME
REQ.BY:ECOLOGY & ENVIRONMENT - ALEXANDRIA PROJ - RAPIDES PARISH
WITHIN A 4.0000 MILE RADIUS OF LATITUDE 311731 LONGITUDE 922641

PARISH CODE	WELL NUMBER	OWNER'S NAME / OWNER'S NO.	LATITUDE / LONGITUDE	GEOLOGIC UNIT / DRILLER	TOWN SECT	SHIP	RANGE	WELL USE	DEPTH / SUB USE	CASING DIAMETER / MATERIAL	SCREEN DIAMETER / INTERVAL	DRILL DATE	AVAIL INFO
079	-5403Z	A H LATHAM INC / 1	311709 / 922709	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / PETRON, INC.	042	04N	01W	MONITOR	7 / PA	4		0689	
079	-5404Z	A H LATHAM INC / 1A	311709 / 922709	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / PETRON, INC	042	04N	01W	MONITOR	13 / --	PLASTIC	4	0689	D W
079	- 5	ALEX ICE/C STOR	311825 / 922708	CARNAHAN BAYOU AQUIFER / UNKNOWN	009	04N	01W	PUBLIC SUPPLY	1100 / -A	6		1938	W
079	- 6	ALEX ICE/C STOR	311825 / 922705	CARNAHAN BAYOU AQUIFER / UNKNOWN	009	04N	01W	PUBLIC SUPPLY	1100 / -A	6		1938	
079	- 24A	ALEX ICE/C STOR	311854 / 922704	CARNAHAN BAYOU AQUIFER / WHITE I B	009	04N	01W	OTHER	487 / -U	8X8	MULTIPLE	0135	DMQ
079	- 24B	ALEX ICE/C STOR	311854 / 922704	CARNAHAN BAYOU AQUIFER / WHITE I B	009	04N	01W	OTHER	1080 / -U			0135	D Q
079	-6040Z	ALEXANDER, AUBR / MW-1	311827 / 922723	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT / PETRON, INC.	041	04N	01W	MONITOR	13 / PA	4 / PLASTIC	4 / 2-13	0496	D W
079	-6041Z	ALEXANDER, AUBR / MW-2	311826 / 922724	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / PETRON, INC.	041	04N	01W	MONITOR	13 / PA	4 / PLASTIC	4 / 2-13	0496	D W
079	-6042Z	ALEXANDER, AUBR / MW-3	311827 / 922724	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT / PETRON, INC	041	04N	01W	MONITOR	13 / PA	4 / PLASTIC	4 / 2-13	0496	D W
079	- 1	ALEXANDRIA, LA / ST ANNE	311854 / 922653	CARNAHAN BAYOU AQUIFER / WHITE I B	009	04N	01W	PUBLIC SUPPLY	1140 / -D	12		1938	D Q W
079	- 2	ALEXANDRIA, LA / 4TH&STANNE	311852 / 922700	CARNAHAN BAYOU AQUIFER / WHITE I B	009	04N	01W	PUBLIC SUPPLY	1086 / -D	12		1938	D Q
079	- 3	ALEXANDRIA, LA / 4TH&MONROE	311825 / 922704	CARNAHAN BAYOU AQUIFER / UNKNOWN	009	04N	01W	PUBLIC SUPPLY	575 / -D	12		1938	W
079	- 7	ALEXANDRIA, LA / MONROE 1	311851 / 922705	CARNAHAN BAYOU AQUIFER / WHITE I B	009	04N	01W	PUBLIC SUPPLY	1072 / PA	12X12 / METAL	12 / MULTIPLE	0935	D Q W
079	- 8	ALEXANDRIA, LA / FIFTH ST	311855 / 922704	CARNAHAN BAYOU AQUIFER / WHITE I B	009	04N	01W	PUBLIC SUPPLY	650 / -D	18		1938	
079	- 9	ALEXANDRIA, LA / MONROE 2	311858 / 922700	CARNAHAN BAYOU AQUIFER / WHITE I B	009	04N	01W	PUBLIC SUPPLY	743 / -D			1938	Q

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WITHIN A 4.0000 MILE RADIUS OF LATITUDE 311731 LONGITUDE 922641

PARISH CODE	WELL NUMBER	OWNER'S NAME OWNER'S NO.	LATITUDE LONGITUDE	GEOLOGIC UNIT DRILLER	SECT	TOWN SHIP	RANGE	WELL USE	DEPTH SUB USE	CASING DIAMETER MATERIAL	SCREEN DIAMETER INTERVAL	DRILL DATE	AVAIL INFO
079	- 10	ALEXANDRIA, LA RAPIDES ST	311910 922713	CATAHOULA AQUIFER WHITE I B	010	04N	01W	TEST HOLE	1670 PA			0837	D
079	- 11	ALEXANDRIA, LA OAK ST	311910 922713	CARNAHAN BAYOU AQUIFER WHITE I B	010	04N	01W	PUBLIC SUPPLY	722 -D	12	12 676-722	1137	D Q W
079	- 12	ALEXANDRIA, LA THIRD ST	311911 922714	CARNAHAN BAYOU AQUIFER WHITE I B	010	04N	01W	PUBLIC SUPPLY	722 PA	12 METAL	12 676-722	0538	D Q W
079	- 13	ALEXANDRIA, LA MONROE 3	311831 922822	CARNAHAN BAYOU AQUIFER WHITE I B	035	04N	01W	PUBLIC SUPPLY	1300 -D	12	1190-1230		D
079	- 14	ALEXANDRIA, LA CITY PARK1	311731 922708	WILLIAMSON CREEK AQUIFER WHITE I B	042	04N	01W	PUBLIC SUPPLY	345 -D	12			D Q
079	- 15	ALEXANDRIA, LA CITY PARK3	311730 922708	CARNAHAN BAYOU AQUIFER WHITE I B	007	04N	01W	PUBLIC SUPPLY	1202 PA	12 METAL	12 1159-1202	0635	D Q PW
079	- 16	ALEXANDRIA, LA CITY PARK9	311730 922707	CARNAHAN BAYOU AQUIFER WHITE I B	007	04N	01W	PUBLIC SUPPLY	1212 -D	10	10 1171-1212	0735	D
079	- 17	ALEXANDRIA, LA CITY PARK2	311718 922708	CARNAHAN BAYOU AQUIFER WHITE I B	042	04N	01W	PUBLIC SUPPLY	1194 -D	12	1146-1194	0330	ED Q PW
079	- 18	ALEXANDRIA, LA LEE ST 1	311727 922709	WILLIAMSON CREEK AQUIFER WHITE I B	007	04N	01W	OBSERVATION	406 -D	12	10	1930	E Q PW
079	- 19	ALEXANDRIA, LA MASON DR	311720 922703	CARNAHAN BAYOU AQUIFER WHITE I B	042	04N	01W	TEST HOLE	520 PA			0538	D
079	- 20	ALEXANDRIA, LA CITY PARK4	311721 922718	WILLIAMSON CREEK AQUIFER UNKNOWN	042	04N	01W	PUBLIC SUPPLY	390 PA	10 METAL	10 370-390	1921	D Q PW
079	- 21	ALEXANDRIA, LA FOURTH ST1	311831 922634	CARNAHAN BAYOU AQUIFER ANDREWS WELL CO	007	04N	01W	OBSERVATION	590 -D	6		1890	W
079	- 316	ALEXANDRIA, LA WINN ST	311812 922649	RED RIVER ALLUVIAL AQUIFER UNKNOWN	007	04N	01W	PUBLIC SUPPLY	92 -D	6	71-92	0840	D W
079	- 404	ALEXANDRIA, LA BOLTON 1	311843 922746	WILLIAMSON CREEK AQUIFER UNKNOWN	038	04N	01W	PUBLIC SUPPLY	253 -D	8 METAL	8 213-253	0241	Q PW
079	- 405	ALEXANDRIA, LA MADISON 1	311843 922710	CARNAHAN BAYOU AQUIFER UNKNOWN	009	04N	01W	PUBLIC SUPPLY	1103 -D	12	1040-1103	0241	E MQ W
079	- 406	ALEXANDRIA, LA MADISON 2	311843 922710	CARNAHAN BAYOU AQUIFER UNKNOWN	009	04N	01W	PUBLIC SUPPLY	580 -D	10	540-580	0341	MQ PW
079	- 407A	ALEXANDRIA, LA MONROE 4-A	311801 922835	RED RIVER ALLUVIAL AQUIFER HINCEY TOM	033	04N	01W	TEST HOLE	120 -D		100-120	0548	DMQ

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

BATON ROUGE

WELLRQ3A - REGISTERED WATER WELLS IN RAPIDES -- SORTED BY OWNER'S NAME

REQ BY:ECOLOGY & ENVIRONMENT - ALEXANDRIA PROJ - RAPIDES PARISH

WITHIN A 4.0000 MILE RADIUS OF LATITUDE 311731 LONGITUDE 922641

PARISH CODE	WELL NUMBER	OWNER'S NAME / OWNER'S NO.	LATITUDE / LONGITUDE	GEOLOGIC UNIT / DRILLER	TOWN SECT	TOWN SHIP	TOWN RANGE	WELL USE	DEPTH SUB USE	CASING DIAMETER / MATERIAL	SCREEN DIAMETER / INTERVAL	DRILL DATE	AVAIL INFO
079	- 407B	ALEXANDRIA, LA	311801	CARNAHAN BAYOU AQUIFER					850	12X12X12	12	0548	
		MONROE 4-B	922835	HINCEY TOM	033	04N	01W	TEST HOLE	-D	STEEL	MULTIPLE		
079	- 407C	ALEXANDRIA, LA	311801	CATAHOULA AQUIFER					1550			0548	
		MONROE 4-C	922835	HINCEY TOM	033	04N	01W	TEST HOLE	-D		1540-1550		
079	- 407D	ALEXANDRIA, LA	311801	CATAHOULA AQUIFER					1580			0548	
		MONROE 4-D	922835	HINCEY TOM	033	04N	01W	TEST HOLE	-D		1570-1580		
079	- 408	ALEXANDRIA, LA	311825	WILLIAMSON CREEK AQUIFER					311	12		0841	MQ W
		CASSON ST	922627	BLEVINS L P	007	04N	01W	PUBLIC SUPPLY	PA	METAL			
079	- 409	ALEXANDRIA, LA	311825	CARNAHAN BAYOU AQUIFER					780	12		0841	MQ
		FOURTH ST2	922627	UNKNOWN	007	04N	01W	PUBLIC SUPPLY	-D				
079	- 410	ALEXANDRIA, LA	311843	CARNAHAN BAYOU AQUIFER					1160	12		1950	E Q PW
		BOLTON 2	922746	UNKNOWN	038	04N	01W	PUBLIC SUPPLY	-D	METAL			
079	- 440	ALEXANDRIA, LA	311729	CARNAHAN BAYOU AQUIFER					740	13X6	6	0961	ED Q PW
		BROADWAY 1	922610	BLEVINS L P	005	04N	01W	PUBLIC SUPPLY	PA	METAL	710-740		
079	- 441A	ALEXANDRIA, LA	311736	CARNAHAN BAYOU AQUIFER					825	12	12	1955	E Q PW
		BEECH 1-A	922712	EUNICE IRON	007	04N	01W	PUBLIC SUPPLY	PA	METAL	795-825		
079	- 441B	ALEXANDRIA, LA	311736	CARNAHAN BAYOU AQUIFER					1199	12X8	8	0867	E MQ W
		BEECH 1-B	922712	HENRY, L. B.	007	04N	01W	PUBLIC SUPPLY	PA	METAL	1140-1200		
079	- 453	ALEXANDRIA, LA	311748	RED RIVER ALLUVIAL AQUIFER					114	6			Q W
		OVERTON ST	922700	UNKNOWN	007	04N	01W	PUBLIC SUPPLY	PA		94-114		
079	- 455	ALEXANDRIA, LA	311709	RED RIVER ALLUVIAL AQUIFER					114	10			Q W
		PARIS ST	922657	UNKNOWN	036	04N	01W	PUBLIC SUPPLY	PA		94-114		
079	- 456	ALEXANDRIA, LA	311723	RED RIVER ALLUVIAL AQUIFER					114				Q
		SMARTHMORE	922750	UNKNOWN	035	04N	01W	PUBLIC SUPPLY	PA		94-114		
079	- 457	ALEXANDRIA, LA	311737	RED RIVER ALLUVIAL AQUIFER					114				Q
		HICKORY 1	922712	UNKNOWN	007	04N	01W	PUBLIC SUPPLY	PA		94-114		
079	- 458	ALEXANDRIA, LA	311737	WILLIAMSON CREEK AQUIFER					341	10			M
		HICKORY 2	922712	UNKNOWN	007	04N	01W	PUBLIC SUPPLY	PA				
079	- 607	ALEXANDRIA, LA	311843	CARNAHAN BAYOU AQUIFER					578	16X10	10	1056	ED Q PW
		NINETH ST	922710	LA WELL CO	009	04N	01W	PUBLIC SUPPLY	PA	STEEL	548-578		
079	- 608	ALEXANDRIA, LA	311713	WILLIAMSON CREEK AQUIFER					290	16X10		1056	EDM W
		COTTN ST	922732	UNKNOWN	042	04N	01W	PUBLIC SUPPLY	-Z		255-290		
079	- 609	ALEXANDRIA, LA	311732	NO WELL MADE, LOG DEPTH SHOWN					1200			0456	E
		TEST #3	922607	LA WELL CO	005	04N	01W	TEST HOLE	PA				

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079	- 610	ALEXANDRIA, LA POWER PLT1	311918 922740	CARNAHAN BAYOU AQUIFER LA WELL CO	010	04N	01W	PUBLIC SUPPLY	892 -P	16X10 METAL	10 852-892	0556	ED Q PW
079	- 611	ALEXANDRIA, LA HWY 1 #3	311948 922911	NO WELL MADE, LOG DEPTH SHOWN LA WELL CO	013	04N	01W	TEST HOLE	1204 PA			0556	ED
079	- 628	ALEXANDRIA, LA POWER PLT2	311918 922753	CARNAHAN BAYOU AQUIFER UNKNOWN	014	04N	01W	PUBLIC SUPPLY	909 -P	16X10 METAL	10 868-909	1156	D Q PW
079	- 748	ALEXANDRIA, LA LEE ST 2	311727 922708	CARNAHAN BAYOU AQUIFER LAYNE (LA)	007	04N	01W	PUBLIC SUPPLY	1213 -P	13X8 METAL	8 11/8-1213	1159	ED Q PW
079	- 754	ALEXANDRIA, LA LEE ST 4	311728 922709	WILLIAMSON CREEK AQUIFER LAYNE (LA)	007	04N	01W	PUBLIC SUPPLY	344 PA	10X8 METAL	8 324-344	1059	D Q PW
079	- 762	ALEXANDRIA, LA MASONIC DR	311727 922711	CARNAHAN BAYOU AQUIFER LAYNE (LA)	042	04N	01W	PUBLIC SUPPLY	1302 PA	12X8X8 STEEL	8 1272-1302	0862	ED Q PW
079	- 769A	ALEXANDRIA, LA MCARTHUR1A	311747 923001	CARNAHAN BAYOU AQUIFER BLEVINS L P	027	04N	01W	TEST HOLE	700 PA			1261	ED Q W
079	- 769B	ALEXANDRIA, LA MCARTHUR1B	311747 923001	CARNAHAN BAYOU AQUIFER BLEVINS L P	027	04N	01W	TEST HOLE	800 PA			1261	ED Q W
079	- 769C	ALEXANDRIA, LA MCARTHUR1C	311747 923001	CARNAHAN BAYOU AQUIFER BLEVINS L P	027	04N	01W	TEST HOLE	1000 PA			1161	ED Q W
079	- 769D	ALEXANDRIA, LA MCARTHUR1D	311747 923001	C 'HAN BAYOU AQUIFER E JINS L P	027	04N	01W	TEST HOLE	1350 PA			1161	ED Q W
079	- 775	ALEXANDRIA, LA TWIN BRIDG	311547 923007	NO WELL MADE, LOG DEPTH SHOWN BLEVINS L P	010	03N	01W	TEST HOLE	1650 PA			0162	ED
079	- 777	ALEXANDRIA, LA BROADWAY 3	311729 922611	CARNAHAN BAYOU AQUIFER BLEVINS L P	005	04N	01W	PUBLIC SUPPLY	1147 PA	13 METAL	6 1123-1147	0662	M PW
079	- 811	ALEXANDRIA, LA HEYMAN LN	311726 922903	NO WELL MADE, LOG DEPTH SHOWN BLEVINS L P	084	04N	01W	TEST HOLE	1650 PA			1162	E
079	- 820	ALEXANDRIA, LA MCARTHUR2	311655 922828	WILLIAMSON CREEK AQUIFER UNKNOWN	032	04N	01W	PUBLIC SUPPLY	225 PA	12X6 METAL	6 210-225	0363	E PW
079	- 820A	ALEXANDRIA, LA MCARTHUR2A	311722 922831	WILLIAMSON CREEK AQUIFER BLEVINS L P	032	04N	01W	TEST HOLE	220 PA		215-220	0363	E Q W
079	- 820B	ALEXANDRIA, LA MCARTHUR2B	311722 922831	CARNAHAN BAYOU AQUIFER BLEVINS L P	032	04N	01W	TEST HOLE	885 PA		880-885	0363	E Q W
079	- 820C	ALEXANDRIA, LA MCARTHUR2C	311722 922831	CARNAHAN BAYOU AQUIFER BLEVINS L P	032	04N	01W	TEST HOLE	1040 PA		1035-1040	0363	E Q W

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079	- 820D	ALEXANDRIA, LA / MCARTHUR2D	311722 / 922831	CARNAHAN BAYOU AQUIFER / BLEVINS L P	032	04N	01W	TEST HOLE	1265 / PA		1260-1265	0363	E Q W
079	- 823	ALEXANDRIA, LA / STERKX 1	311612 / 922706	WILLIAMSON CREEK AQUIFER / BLEVINS L P	047	03N	01W	PUBLIC SUPPLY	432 / -P	12X6	6 / MULTIPLE	0663	EDMQ PW
079	- 824	ALEXANDRIA, LA / STERKX 2	311612 / 922706	CARNAHAN BAYOU AQUIFER / UNKNOWN	047	03N	01W	PUBLIC SUPPLY	995 / -D	12	6 / 931-995	1963	
079	- 825	ALEXANDRIA, LA / STERKX 3	311612 / 922706	CARNAHAN BAYOU AQUIFER / BLEVINS L P	047	03N	01W	PUBLIC SUPPLY	1272 / -P	12X6 / STEEL	1240-1272	0963	D Q W
079	- 827	ALEXANDRIA, LA / STERKX 4	311612 / 922706	CARNAHAN BAYOU AQUIFER / BLEVINS L P	047	03N	01W	PUBLIC SUPPLY	995 / PA	12X6	6 / 935-995	0164	D Q W
079	- 830	ALEXANDRIA, LA / POWER PLT3	311915 / 922754	RED RIVER ALLUVIAL AQUIFER / BLEVINS L P	014	04N	01W	TEST HOLE	67 / -D	6 / METAL	6 / 57-67	0464	D Q PW
079	- 831A	ALEXANDRIA, LA / LEWIS 1-A	311555 / 922955	CARNAHAN BAYOU AQUIFER / STAMM-SCHEELE	010	03N	01W	TEST HOLE	845 / --	4	4 / 835-845	0464	E Q W
079	- 831B	ALEXANDRIA, LA / LEWIS 1-B	311555 / 922955	CARNAHAN BAYOU AQUIFER / STAMM-SCHEELE	010	03N	01W	TEST HOLE	1370 / --	4	1360-1370	0464	E Q W
079	- 831C	ALEXANDRIA, LA / LEWIS 1-C	311555 / 922955	CARNAHAN BAYOU AQUIFER / STAMM-SCHEELE	010	03N	01W	TEST HOLE	1555 / --		1545-1555	0464	E Q W
079	- 832	ALEXANDRIA, LA / LEWIS 2	311555 / 922954	NO WELL MADE, LOG DEPTH SHOWN / STAMM-SCHEELE	010	03N	01W	OTHER	PA			1964	
079	- 833	ALEXANDRIA, LA / LEWIS 3	311555 / 922955	CARNAHAN BAYOU AQUIFER / STAMM-SCHEELE	010	03N	01W	PUBLIC SUPPLY	858 / -P	14X8	8 / 803-858	0864	Q W
079	- 834	ALEXANDRIA, LA / HWY 28 #1	311702 / 922947	NO WELL MADE, LOG DEPTH SHOWN / STAMM-SCHEELE	027	04N	01W	TEST HOLE	1708 / PA			0564	E
079	- 837	ALEXANDRIA, LA / ARMORY 1	311749 / 923000	CARNAHAN BAYOU AQUIFER / STAMM-SCHEELE	027	04N	01W	PUBLIC SUPPLY	1025 / -P	14X7X7	8 / 950-1025	1164	ED W
079	- 838	ALEXANDRIA, LA / LEWIS 4	311555 / 922954	CARNAHAN BAYOU AQUIFER / STAMM-SCHEELE	010	03N	01W	PUBLIC SUPPLY	1410 / -P	14X8 / STEEL	MULTIPLE	1965	D Q W
079	- 839	ALEXANDRIA, LA / ARMORY 2	311749 / 923000	CARNAHAN BAYOU AQUIFER / STAMM-SCHEELE	027	04N	01W	PUBLIC SUPPLY	820 / -P			0565	D Q
079	- 875	ALEXANDRIA, LA / BETTY ST	311537 / 922637	WILLIAMSON CREEK AQUIFER / HENRY, L. B	045	03N	01W	PUBLIC SUPPLY	504 / -P	12X8X8	8 / MULTIPLE	0867	ED Q PW
079	-1202	ALEXANDRIA, LA / BEECH 2	311736 / 922712	CARNAHAN BAYOU AQUIFER / STAMM-SCHEELE	007	04N	01W	PUBLIC SUPPLY	1190 / -P	12X8	8 / 1153-1190	0282	EDMQ W

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079	-1203	ALEXANDRIA, LA STERKX $	311612 922706	CARNAHAN BAYOU AQUIFER STAMM-SCHEELE	047	03N	01W	PUBLIC SUPPLY	990 -P	12X8	8 937-990	0382	EDM W
079	-1357	ALEXANDRIA, LA JONES ST	311729 922610	CARNAHAN BAYOU AQUIFER CONTINENTAL	005	04N	01W	PUBLIC SUPPLY	723 -P	16 STEEL	10 689-723	1291	EDMQ PW
079	-1404	ALEXANDRIA, LA CITY PARKS	311727 922710	WILLIAMSON CREEK AQUIFER MEYERS'	007	04N	01W	TEST HOLE	335 PA	4 PLASTIC	4 315-335	0893	ED PW
079	-1406	ALEXANDRIA, LA CITY PARK6	311727 922710	WILLIAMSON CREEK AQUIFER MEYERS'	007	04N	01W	PUBLIC SUPPLY	337 -P	14 STEEL	10 300-337	0294	ED BPW
079	-1423	ALEXANDRIA, LA JONES ST	311724 922608	CARNAHAN BAYOU AQUIFER UNKNOWN	004	04N	01W	PUBLIC SUPPLY	657 PA	14 STEEL			
079	-6226Z	ALEXANDRIA, LA MW-1	311812 922712	AQUIFER CODE NOT ASSIGNED PETRON, INC	041	04N	01W	MONITOR	13 PA	4 PLASTIC	4 2-13	1297	D W
079	-6227Z	ALEXANDRIA, LA MW-2	311812 922713	AQUIFER CODE NOT ASSIGNED PETRON, INC.	041	04N	01W	MONITOR	13 PA	4 PLASTIC	4 2-13	1297	D W
079	-6228Z	ALEXANDRIA, LA MW-3	311813 922711	AQUIFER CODE NOT ASSIGNED PETRON, INC.	041	04N	01W	MONITOR	13 PA	4 PLASTIC	4 2-13	1297	D W
079	- 786	AMMEN, A K	312024 922601	CARNAHAN BAYOU AQUIFER UNKNOWN	011	04N	01W	DOMESTIC	818 --	4X2	2 798-818	0762	E MQ W
079	-6091Z	ARAMARK UNIFORM MW-1	311727 922614	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PETRON, INC.	005	04N	01W	MONITOR	8 PA	2 PLASTIC			
079	-6092Z	ARAMARK UNIFORM MW-2	311727 922614	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT PETRON, INC	005	04N	01W	MONITOR	8 PA	2 PLASTIC			
079	-6093Z	ARAMARK UNIFORM MW-3	311727 922613	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT PETRON, INC.	005	04N	01W	MONITOR	36 --	2 PLASTIC	2 26-36	0696	D W
079	-6094Z	ARAMARK UNIFORM MW-4	311729 922614	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PETRON, INC.	005	04N	01W	MONITOR	36 --	2 PLASTIC	2 26-36	0696	D W
079	-6095Z	ARAMARK UNIFORM MW-5	311728 922616	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PETRON, INC.	005	04N	01W	MONITOR	36 --	2 PLASTIC	2 26-36	0696	D W
079	-6096Z	ARAMARK UNIFORM MW-6	311727 922615	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PETRON, INC.	005	04N	01W	MONITOR	36 --	2 PLASTIC	2 26-36	0696	D W
079	-6246Z	ARAMARK UNIFORM MW-7	311730 922619	AQUIFER CODE NOT ASSIGNED JESCO	005	04N	01W	MONITOR	36 --	2 PLASTIC	2 25-35	0798	D W

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079	-6247Z	ARAMARK UNIFORM MW-8	311731 922619	AQUIFER CODE NOT ASSIGNED JESCO	005	04N	01W	MONITOR	36 --	2 PLASTIC	2 25-35	0798	D W
079	- 40	ARK OAK & FLOOR	311703 922638	CARNAHAN BAYOU AQUIFER UNKNOWN	042	04N	01W	INDUSTRIAL	1200 -D	6			Q W
079	- 22	BALLS, J M	311721 922823	WILLIAMSON CREEK AQUIFER WHITE I B	033	04N	01W	DOMESTIC	180 --	8		1938	Q W
079	- 25	BENTLEY HOTEL	311844 922643	CARNAHAN BAYOU AQUIFER HINCEY TOM	009	04N	01W	PUBLIC SUPPLY	1250 -A	6	6 1030-1250	1918	W
079	- 462	BLACKMAN LAUND	311808 922700	CARNAHAN BAYOU AQUIFER UNKNOWN	007	04N	01W	PUBLIC SUPPLY	1115 -A	6	1070-1110	0640	E M
079	- 186	BOMAR, ED	311610 922805	RED RIVER ALLUVIAL AQUIFER KELSO G	043	03N	01W	DOMESTIC	83 --	2	79-83	1938	Q W
079	-6083Z	BORDELON, EDWIN MW-1	311855 922625	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT DIVERSIFIED	020	04N	01W	MONITOR	18 --	4 PLASTIC	4 8-18	0196	D W
079	-6084Z	BORDELON, EDWIN MW-2	311856 922625	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT DIVERSIFIED	020	04N	01W	MONITOR	18 --	4 PLASTIC	4 8-18	0196	D W
079	-6085Z	BORDELON, EDWIN MW-3	311856 922624	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT DIVERSIFIED	020	04N	01W	MONITOR	17 --	4 PLASTIC	4 7-17	0196	D W
079	-6086Z	BORDELON, EDWIN MW-4	311855 922625	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT DIVERSIFIED	020	04N	01W	MONITOR	17 --	4 PLASTIC	4 7-17	0196	D W
079	-6087Z	BORDELON, EDWIN MW-5	311855 922625	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT DIVERSIFIED	020	04N	01W	MONITOR	17 --	4 PLASTIC	4 7-17	0196	D W
079	-6088Z	BORDELON, EDWIN MW-6	311855 922624	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT DIVERSIFIED	020	04N	01W	MONITOR	17 --	4 PLASTIC	4 7-17	0196	D W
079	-6089Z	BORDELON, EDWIN MW-7	311856 922626	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT DIVERSIFIED	020	04N	01W	MONITOR	19 --	2 PLASTIC	2 9-19	0396	D W
079	- 662	BORDEN	311514 922607	UPLAND TERRACE AQUIFER UNKNOWN	041	03N	01W	PUBLIC SUPPLY	60 PA	12			

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079	- 298	CARTER, T A	311926	WILLIAMSON CREEK AQUIFER					300	4		1927	
			922328	BLEVINS L A	017	04N	01E	DOMESTIC	--				
079	- 201	CENTRAL LA ELEC	311916	CARNAHAN BAYOU AQUIFER					1064	10	10	1928	D Q W
			922612	UNKNOWN	019	04N	01W	INDUSTRIAL	-A		1004-1064		
079	- 202	CENTRAL LA ELEC	311917	CARNAHAN BAYOU AQUIFER					1100	10		1938	W
			922559	UNKNOWN	019	04N	01W	INDUSTRIAL	-A				
079	- 52	CHICOLA, JOE	311444	WILLIAMSON CREEK AQUIFER					580	3		1935	Q W
			922542	BLEVINS L A	038	03N	01W	DOMESTIC	--		568-580		
079	-5386Z	CIRCLE K	311859	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT					13	4	4	0389	D W
		MW-1	922806	PETRON, INC.	015	04N	01W	MONITOR	-D	PLASTIC	2-13		
079	-5387Z	CIRCLE K	311859	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT					13	4	4	0389	D W
		MW-2	922806	PETRON, INC.	015	04N	01W	MONITOR	-D	PLASTIC	2-13		
079	-5388Z	CIRCLE K	311859	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT					13	4	4	0389	D W
		MW-3	922806	PETRON, INC	015	04N	01W	MONITOR	-D	PLASTIC	2-13		
079	-5389Z	CIRCLE K	311859	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT					13	4	4	0389	D W
		MW-4	922806	PETRON, INC.	015	04N	01W	MONITOR	-D	PLASTIC	2-13		
079	-5390Z	CIRCLE K	311859	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT					13	4	4	0389	D W
		MW-5	922806	PETRON, INC	015	04N	01W	MONITOR	-D	PLASTIC	2-13		
079	-1229	COLFAX CREOSOT	311855	PRAIRIE AQUIFER					59	4	4	0483	D
		3	922530	MORPHIS	021	04N	01W	MONITOR	--	PLASTIC	49-59		
079	-5003Z	COLFAX CREOSOT	311854	RED RIVER ALLUVIAL AQUIFER					61	4			
			922531	LEE PLUMBING	020	04N	01W	INDUSTRIAL	PA				
079	-5009Z	COLFAX CREOSOT	311853	RED RIVER ALLUVIAL AQUIFER					58	4	4	1283	D W
		4	922531	PEART'S	021	04N	01W	MONITOR	--	PLASTIC	48-58		
079	-5136Z	COLFAX CREOSOT	311845	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT					40	2	2	0686	D W
		MW-5	922530	BALL	022	04N	01W	MONITOR	--	PLASTIC	30-40		
079	-5463Z	COLFAX CREOSOT	311848	RED RIVER ALLUVIAL AQUIFER					62	2	2	0790	D
		MW-6	922529	SOUTHWESTERN	021	04N	01W	MONITOR	--	PLASTIC	52-62		
079	-5464Z	COLFAX CREOSOT	311851	RED RIVER ALLUVIAL AQUIFER					54	2	2	0590	D
		MW-7	922535	SOUTHWESTERN	021	04N	01W	MONITOR	--	PLASTIC	44-54		

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WITHIN A 4.0000 MILE RADIUS OF LATITUDE 311731 LONGITUDE 922641

PARISH CODE	WELL NUMBER	OWNER'S NAME / OWNER'S NO.	LATITUDE / LONGITUDE	GEOLOGIC UNIT / DRILLER	TOWN SECT	SHIP	RANGE	WELL USE	DEPTH / SUB USE	CASING DIAMETER / MATERIAL	SCREEN DIAMETER / INTERVAL	DRILL DATE	AVAIL INFO	
079	-5465Z	COLFAX CREOSOT MW-7D	311851 922535	RED RIVER ALLUVIAL AQUIFER SOUTHWESTERN	021	04N	01W	MONITOR	74 --	2 PLASTIC	2 64-74	0590	D	
079	-5466Z	COLFAX CREOSOT P-1R	311853 922533	RED RIVER ALLUVIAL AQUIFER SOUTHWESTERN	021	04N	01W	RECOVERY	58 --	4 STEEL	4 53-58	0590	D	
079	-5467Z	COLFAX CREOSOT P-2R	311852 922534	RED RIVER ALLUVIAL AQUIFER SOUTHWESTERN	021	04N	01W	RECOVERY	59 --	4 STEEL	4 54-59	0590	D	
079	-5468Z	COLFAX CREOSOT P-4R	311850 922533	RED RIVER ALLUVIAL AQUIFER SOUTHWESTERN	021	04N	01W	RECOVERY	48 --	4 STEEL	4 43-48	0790	D	
079	-5480Z	COLFAX CREOSOT P-1	311853 922530	RED RIVER ALLUVIAL AQUIFER UNKNOWN	021	04N	01W	MONITOR	55 PA					
079	-5481Z	COLFAX CREOSOT P-2	311852 922534	RED RIVER ALLUVIAL AQUIFER UNKNOWN	021	04N	01W	MONITOR	55 PA					
079	-5482Z	COLFAX CREOSOT P-4	311850 922533	RED RIVER ALLUVIAL AQUIFER UNKNOWN	021	04N	01W	MONITOR	46 PA					
079	-5586Z	COLFAX CREOSOT MW-8	311854 922537	RED RIVER ALLUVIAL AQUIFER SOUTHWESTERN	021	04N	01W	MONITOR	80 --	2 PLASTIC	2 70-80	0791	D	W
079	-5587Z	COLFAX CREOSOT MW-9	311848 922536	RED RIVER ALLUVIAL AQUIFER SOUTHWESTERN	021	04N	01W	MONITOR	80 --	2 PLASTIC	2 70-80	0791	D	W
079	-5639Z	COLFAX CREOSOT MW-10	311850 922537	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT SOUTHWESTERN	021	04N	01W	MONITOR	30 --	2 PLASTIC	2 20-30	0692	D	W
079	-5640Z	COLFAX CREOSOT MW-12	311851 922600	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT SOUTHWESTERN	021	04N	01W	MONITOR	22 --	2 PLASTIC	2 12-22	0692	D	W
079	-5641Z	COLFAX CREOSOT MW-13	311851 922601	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT SOUTHWESTERN	021	04N	01W	MONITOR	24 --	2 PLASTIC	2 14-24	0692	D	W
079	-5642Z	COLFAX CREOSOT MW-14	311853 922558	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT SOUTHWESTERN	021	04N	01W	MONITOR	22 --	2 PLASTIC	2 12-22	0692	D	W
079	-5643Z	COLFAX CREOSOT MW-15	311902 922551	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT SOUTHWESTERN	021	04N	01W	MONITOR	22 --	2 PLASTIC	2 12-22	0692	D	W
079	-5644Z	COLFAX CREOSOT MW-17	311906 922542	RED RIVER ALLUVIAL AQUIFER SOUTHWESTERN	021	04N	01W	MONITOR	32 --	2 PLASTIC	2 22-32	0692	D	W
079	-5645Z	COLFAX CREOSOT MW-16	311913 922546	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT SOUTHWESTERN	021	04N	01W	MONITOR	24 --	2 PLASTIC	2 14-24	0692	D	W
079	-5646Z	COLFAX CREOSOT MW-11	311851 922554	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT SOUTHWESTERN	021	04N	01W	MONITOR	29 --	2 PLASTIC	2 19-29	0692	D	W

WELLRQ3A - REGISTERED WATER WELLS IN RAPIDES -- SORTED BY OWNER'S NAME
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WITHIN A 4.0000 MILE RADIUS OF LATITUDE 311731 LONGITUDE 922641

PARISH CODE	WELL NUMBER	OWNER'S NAME / OWNER'S NO.	LATITUDE / LONGITUDE	GEOLOGIC UNIT / DRILLER	TOWN SECT	SHIP	RANGE	WELL USE	DEPTH / SUB USE	CASING DIAMETER / MATERIAL	SCREEN DIAMETER / INTERVAL	DRILL DATE	AVAIL INFO	
079	-6263Z	COLFAX CREOSOT	311858 / 922544	AQUIFER CODE NOT ASSIGNED / GENTRY	021	04N	01W	INDUSTRIAL	390 / 24	4 / PLASTIC	4 / 380-390	1198	D	W
079	- 443	COTTON BROS BAK	311543 / 922706	WILLIAMSON CREEK AQUIFER / UNKNOWN	046	03N	01W	PUBLIC SUPPLY	485 / -A	6	403-453	1951	E	W
079	-1124	COTTON BROS BAK 2	311543 / 922706	WILLIAMSON CREEK AQUIFER / LAYNE (LA)	046	03N	01W	INDUSTRIAL	434 / 20	6 / OTHER	6 / 404-434	0976	ED	W
079	-1213	COTTON, GENE	311657 / 922852	RED RIVER ALLUVIAL AQUIFER / LEE PLUMBING	028	04N	01W	IRRIGATION	120 / --	6 / PLASTIC	6 / 100-120	0981	D	W
079	- 728	DELLMON, J R	311831 / 922634	WILLIAMSON CREEK AQUIFER / THIELS, JOHN	008	04N	01W	DOMESTIC	285 / --	2 50	2 50 / 275-285	1058	Q	W
079	- 38	DURAWOOD TREATI	311706 / 922555	CARNAHAN BAYOU AQUIFER / WHITE I B	003	04N	01W	INDUSTRIAL	960 / -A			1938	Q	
079	-5571Z	DURAWOOD TREATN MW-5	312000 / 922530	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / GEOTECHNICAL-	003	04N	01W	MONITOR	20 / PA	2		0684		
079	-5572Z	DURAWOOD TREATN MW-5C	311657 / 922555	RED RIVER ALLUVIAL AQUIFER / SOUTHWESTERN	003	04N	01W	MONITOR	74 / --	2 / PLASTIC	2 / 61-71	0691	D	W
079	-5573Z	DURAWOOD TREATN MW-6R	311658 / 922559	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT / SOUTHWESTERN	003	04N	01W	RECOVERY	24 / --	4 / STEEL	4 / 20-25	0691	D	W
079	-5574Z	DURAWOOD TREATN MW-7R	311659 / 922601	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / SOUTHWESTERN	003	04N	01W	RECOVERY	24 / --	4 / STEEL	4 / 20-25	0691	D	W
079	-5575Z	DURAWOOD TREATN W-10C	311702 / 922603	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT / SOUTHWESTERN	003	04N	01W	MONITOR	25 / --	2 / PLASTIC	2 / 15-25	0691	D	W
079	-5576Z	DURAWOOD TREATN W-16R	311700 / 922602	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / SOUTHWESTERN	003	04N	01W	RECOVERY	24 / --	4 / STEEL	4 / 20-25	0691	D	W
079	-5577Z	DURAWOOD TREATN W-17R	311701 / 922603	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / SOUTHWESTERN	003	04N	01W	RECOVERY	24 / --	4 / STEEL	4 / 20-25	0691	D	W
079	-5578Z	DURAWOOD TREATN MW-18	311703 / 922559	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / SOUTHWESTERN	003	04N	01W	MONITOR	26 / --	2 / PLASTIC	2 / 17-27	0691	D	W
079	-5579Z	DURAWOOD TREATN MW-19	311700 / 922556	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / SOUTHWESTERN	003	04N	01W	RECOVERY	26 / --	2 / PLASTIC	2 / 17-27	0691	D	W

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

BATON ROUGE

WELLRQ3A - REGISTERED WATER WELLS IN RAPIDES -- SORTED BY OWNER'S NAME
REQ BY.ECOLOGY & ENVIRONMENT - ALEXANDRIA PROJ - RAPIDES PARISH
WITHIN A 4.0000 MILE RADIUS OF LATITUDE 311731 LONGITUDE 922641

PARISH CODE	WELL NUMBER	OWNER'S NAME / OWNER'S NO.	LATITUDE / LONGITUDE	GEOLOGIC UNIT / DRILLER	TOWN SECT	SHIP	RANGE	WELL USE	DEPTH SUB USE	CASING DIAMETER / MATERIAL	SCREEN DIAMETER / INTERVAL	DRILL DATE	AVAIL INFO	
079	-5580Z	DURAWOOD TREATN MW-20	311659 922555	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT SOUTHWESTERN	003	04N	01W	MONITOR	26 --	2 PLASTIC	2 16-26	0691	D	W
079	-5581Z	DURAWOOD TREATN MW-21	311657 922553	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT SOUTHWESTERN	003	04N	01W	MONITOR	26 --	2 PLASTIC	2 17-27	0691	D	W
079	-6008Z	DURAWOOD TREATN MW-2B	311708 922558	RED RIVER ALLUVIAL AQUIFER LAYNE (ENV)	003	04N	01W	MONITOR	74 --	2X2 PLASTIC	2 60-70	0795	D	W
079	-6009Z	DURAWOOD TREATN MW-10D	311714 922603	RED RIVER ALLUVIAL AQUIFER LAYNE (ENV)	003	04N	01W	MONITOR	80 --	2X2 PLASTIC	2 68-78	0895	D	W
079	-6010Z	DURAWOOD TREATN MW-14B	311709 922603	RED RIVER ALLUVIAL AQUIFER LAYNE (ENV)	003	04N	01W	MONITOR	77 --	2X2 PLASTIC	2 65-75	0895	D	W
079	-6011Z	DURAWOOD TREATN MW-22A	311713 922601	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT LAYNE (ENV)	003	04N	01W	MONITOR	26 --	2X2 PLASTIC	2 14-24	0795	D	W
079	-6012Z	DURAWOOD TREATN MW-22B	311713 922601	RED RIVER ALLUVIAL AQUIFER LAYNE (ENV)	003	04N	01W	MONITOR	73 --	2X2 PLASTIC	2 61-71	0895	D	W
079	-6013Z	DURAWOOD TREATN MW-23	311709 922555	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT LAYNE (ENV)	003	04N	01W	MONITOR	26 --	2X2 PLASTIC	2 14-24	0795	D	W
079	-6014Z	DURAWOOD TREATN MW-24	311712 922605	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT LAYNE (ENV)	003	04N	01W	MONITOR	26 --	2X2 PLASTIC	2 14-24	0795	D	W
079	-6015Z	DURAWOOD TREATN MW-25	311708 922557	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT LAYNE (ENV)	003	04N	01W	MONITOR	27 --	2X2 PLASTIC	2 15-25	0795	D	W
079	-6016Z	DURAWOOD TREATN MW-26	311708 922556	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT LAYNE (ENV)	003	04N	01W	MONITOR	26 --	2X2 PLASTIC	2 14-24	0795	D	W
079	-6017Z	DURAWOOD TREATN MW-27	311713 922804	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT LAYNE (ENV)	003	04N	01W	MONITOR	27 --	2X2 PLASTIC	2 15-25	0795	D	W
079	-6018Z	DURAWOOD TREATN MW-28	311711 922605	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT LAYNE (ENV)	003	04N	01W	MONITOR	27 --	2X2 PLASTIC	2 15-25	0795	D	W
079	-6019Z	DURAWOOD TREATN MW-29	311710 922606	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT LAYNE (ENV)	003	04N	01W	MONITOR	26 --	2X2 PLASTIC	2 14-24	0795	D	W
079	-6020Z	DURAWOOD TREATN MW-30	311710 922604	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT LAYNE (ENV)	003	04N	01W	MONITOR	27 --	2X2 PLASTIC	2 15-25	0795	D	W
079	-6021Z	DURAWOOD TREATN MW-32	311709 922605	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT LAYNE (ENV)	003	04N	01W	MONITOR	27 --	2X2 PLASTIC	2 10-25	0795	D	W
079	-6022Z	DURAWOOD TREATN MW-33	311708 922606	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT LAYNE (ENV)	003	04N	01W	MONITOR	27 --	2X2 PLASTIC	2 15-25	0795	D	W

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079	-6023Z	DURAWOOD TREATN MW-4R	311710 922556	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT LAYNE (ENV)	003 04N 01W	RECOVERY	26 --	4X4 METAL	4 14-24	0795	D	W
079	-6024Z	DURAWOOD TREATN MW-8R	311710 922602	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT LAYNE (ENV)	003 04N 01W	RECOVERY	26 --	4X4 METAL	4 14-24	0795	D	W
079	-5230Z	E Z SERVE 1	311540 922657	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT PETRON, INC.	046 03N 01W	MONITOR	11 --	PLASTIC	6 1-11	1186	D	W
079	-5231Z	E Z SERVE 2	311540 922657	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT PETRON, INC.	046 03N 01W	MONITOR	11 --	PLASTIC	6 1-11	1186	D	W
079	-5232Z	E Z SERVE 3	311540 922657	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PETRON, INC.	046 03N 01W	MONITOR	11 --	PLASTIC	6 1-11	1186	D	W
079	-5233Z	E Z SERVE 4	311540 922657	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT PETRON, INC	046 03N 01W	MONITOR	11 --	PLASTIC	6 1-11	1186	D	W
079	-6028Z	E Z SERVE MW-1	311715 922707	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PROFESSIONAL	042 04N 01W	MONITOR	18 PA	4 PLASTIC	4 8-18	1195	D	W
079	-6029Z	E Z SERVE MW-2	311715 922707	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT PROFESSIONAL	042 04N 01W	MONITOR	18 PA	4 PLASTIC	4 8-18	1195	D	W
079	-6030Z	E Z SERVE MW-3	311715 922707	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PROFESSIONAL	042 04N 01W	MONITOR	15 PA	4 PLASTIC	4 5-15	1195	D	W
079	-6031Z	E Z SERVE MW-4	311715 922707	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PROFESSIONAL	042 04N 01W	MONITOR	15 PA	4 PLASTIC	4 5-15	1195	D	W
079	-6032Z	E Z SERVE MW-5	311715 922707	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT PROFESSIONAL	042 04N 01W	MONITOR	15 PA	4 PLASTIC	4 5-15	1195	D	W
079	-6033Z	E Z SERVE MW-1	311804 922652	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT PROFESSIONAL	007 04N 01W	MONITOR	19 --	4 PLASTIC	4 9-19	1195	D	W
079	-6034Z	E Z SERVE MW-2	311804 922652	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PROFESSIONAL	007 04N 01W	MONITOR	15 --	4 PLASTIC	4 5-15	1295	D	W
079	-6035Z	E Z SERVE MW-3	311804 922652	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT PROFESSIONAL	007 04N 01W	MONITOR	17 --	4 PLASTIC	4 7-17	1195	D	W
079	-6036Z	E Z SERVE MW-4	311804 922652	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT PROFESSIONAL	007 04N 01W	MONITOR	16 --	4 PLASTIC	4 6-16	1195	D	W
079	-6037Z	E Z SERVE MW-5	311804 922652	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PROFESSIONAL	007 04N 01W	MONITOR	15 --	4 PLASTIC	4 5-15	1295	D	W

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

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079	-5298Z	EXXON CO USA MW-1	311803 922845	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PSI/PTL	032	04N	01W	MONITOR	15 PA	4 PLASTIC	4 3-15	0792	D	W
079	-5499Z	EXXON CO USA MW 1	311527 922621	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT CUSTOM CORING	001	03N	01W	MONITOR	20 --	4 PLASTIC	4 10-20	1290	D	W
079	-5500Z	EXXON CO USA MW 2	311527 922621	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT CUSTOM CORING	001	03N	01W	MONITOR	20 --	4 PLASTIC	4 10-20	1290	D	W
079	-5501Z	EXXON CO USA MW 3	311527 922621	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT CUSTOM CORING	001	03N	01W	MONITOR	20 --	4 PLASTIC	4 10-20	1290	D	W
079	-5610Z	EXXON CO USA MW-2	311803 922845	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PSI/PTL	032	04N	01W	MONITOR	20 PA	4 PLASTIC	4 2-20	0792	D	W
079	-5611Z	EXXON CO USA MW-3	311803 922845	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT PSI/PTL	032	04N	01W	MONITOR	15 PA	4 PLASTIC	4 3-15	0792	D	W
079	-5633Z	EXXON CO USA MW-1	312000 922450	UPLAND TERRACE AQUIFER SURF. CONFINING UNIT PROFESSIONAL	007	04N	01E	MONITOR	15 PA	4 PLASTIC	4 2-15	1192	D	W
079	-5634Z	EXXON CO USA MW-2	312000 922450	UPLAND TERRACE AQUIFER SURF. CONFINING UNIT PROFESSIONAL	007	04N	01E	MONITOR	15 PA	4 PLASTIC	4 2-15	1192	D	W
079	-5635Z	EXXON CO USA MW-3	312000 922450	UPLAND TERRACE AQUIFER SURF. CONFINING UNIT PROFESSIONAL	007	04N	01E	MONITOR	15 PA	4 PLASTIC	4 2-15	1192	D	W
079	-5636Z	EXXON CO USA MW-1	311708 922829	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PROFESSIONAL	031	04N	01W	MONITOR	15 --	4 PLASTIC	4 2-15	1192	D	W
079	-5637Z	EXXON CO USA MW-2	311708 922829	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PROFESSIONAL	031	04N	01W	MONITOR	15 --	4 PLASTIC	4 2-15	1192	D	W
079	-5638Z	EXXON CO USA MW-3	311708 922829	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PROFESSIONAL	031	04N	01W	MONITOR	15 --	4 PLASTIC	4 2-15	1192	D	W
079	-5677Z	EXXON CO USA MW-1	311639 922849	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT PROFESSIONAL	066	04N	01W	MONITOR	19 PA	4 PLASTIC	4 4-19	0893	D	W
079	-5678Z	EXXON CO USA MW-2	311639 922849	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PROFESSIONAL	066	04N	01W	MONITOR	18 PA	4 PLASTIC	4 3-18	0893	D	W
079	-5679Z	EXXON CO USA MW-3	311639 922849	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PROFESSIONAL	066	04N	01W	MONITOR	18 PA	4 PLASTIC	4 3-18	0893	D	W
079	-5738Z	EXXON CO USA MW-4	311706 922829	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT LAYNE (ENV)	031	04N	01W	MONITOR	15 --	4 PLASTIC	4 5-15	1293	D	W

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079	-6005Z	EXXON CO USA MW-4	312000 922450	UPLAND TERRACE AQUIFER SURF. CONFINING UNIT G & E	007	04N	01E	MONITOR	14 --	4 PLASTIC	4 4-14	1195	D	W
079	-6006Z	EXXON CO USA MW-5	312000 922451	UPLAND TERRACE AQUIFER SURF CONFINING UNIT G & E	007	04N	01E	MONITOR	14 --	4 PLASTIC	4 4-14	1195	D	W
079	-6071Z	EXXON CO USA MW-5	311706 922825	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT G & E	031	04N	01W	MONITOR	15 --	4 PLASTIC	4 5-15	0696	D	W
079	-6072Z	EXXON CO USA MW-6	311706 922827	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT G & E	031	04N	01W	MONITOR	15 --	4 PLASTIC	4 5-15	0696	D	W
079	-6090Z	EXXON CO USA MW-8	312000 922451	UPLAND TERRACE AQUIFER SURF CONFINING UNIT G & E	007	04N	01E	MONITOR	14 --	4 PLASTIC	4 4-14	1096	D	W
079	-6240Z	EXXON CO USA PZ-1	311706 922827	AQUIFER CODE NOT ASSIGNED G & E	031	04N	01W	PIEZOMETER	15 --	2 PLASTIC	2 5-15	0598	D	W
079	-6241Z	EXXON CO USA WP-3	311706 922827	AQUIFER CODE NOT ASSIGNED G & E	031	04N	01W	RECOVERY	15 --	4 PLASTIC	4 5-15	0598	D	W
079	-6383Z	EXXON CO USA WP-1	311706 922827	AQUIFER CODE NOT ASSIGNED CRA	031	04N	01W	RECOVERY	15 --	4 PLASTIC	4 4-14	0699	D	W
079	-6384Z	EXXON CO USA WP-2	311706 922827	AQUIFER CODE NOT ASSIGNED CRA	031	04N	01W	RECOVERY	15 --	4 PLASTIC	4 4-14	0699	D	W
079	-6385Z	EXXON CO USA WP-4	311706 922827	AQUIFER CODE NOT ASSIGNED CRA	031	04N	01W	RECOVERY	15 --	4 PLASTIC	4 4-14	0699	D	W
079	-6386Z	EXXON CO USA WP-5	311706 922827	AQUIFER CODE NOT ASSIGNED CRA	031	04N	01W	RECOVERY	14 --	4 PLASTIC	4 4-14	0699	D	W
079	-6387Z	EXXON CO USA MW-7	311706 922827	AQUIFER CODE NOT ASSIGNED CRA	031	04N	01W	MONITOR	15 --	4 PLASTIC	4 5-15	0699	D	W
079	-5278Z	FAST TRACK	311847 922833	NO WELL MADE, LOG DEPTH SHOWN COLE'S	019	04N	01W	HEAT PUMP	300 HH			0888	D	
079	-5469Z	G & B OIL 1	311730 922910	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PETRON, INC	031	04N	01W	MONITOR	13 --	4 PLASTIC	4 3-13	1090	D	W
079	-5470Z	G & B OIL 2	311730 922910	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PETRON, INC	031	04N	01W	MONITOR	13 --	4 PLASTIC	4 3-13	1090	D	W
079	-5471Z	G & B OIL 3	311730 922910	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PETRON, INC.	031	04N	01W	MONITOR	13 --	4 PLASTIC	4 3-13	1090	D	W

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

BATON ROUGE

WELLRQ3A - REGISTERED WATER WELLS IN RAPIDES -- SORTED BY OWNER'S NAME
REQ BY:ECOLOGY & ENVIRONMENT - ALEXANDRIA PROJ - RAPIDES PARISH
WITHIN A 4.0000 MILE RADIUS OF LATITUDE 311731 LONGITUDE 922641

PARISH CODE	WELL NUMBER	OWNER'S NAME / OWNER'S NO.	LATITUDE / LONGITUDE	GEOLOGIC UNIT / DRILLER	SECT	TOWNSHIP	RANGE	WELL USE	DEPTH / SUB USE	CASING DIAMETER / MATERIAL	SCREEN DIAMETER / INTERVAL	DRILL DATE	AVAIL INFO
079	-5472Z	G & B OIL / 4.	311730 / 922910	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / PETRON, INC.	031	04N	01W	MONITOR	13 / --	4 / PLASTIC	4 / 3-13	1090	D W
079	- 841	GULF ADHESIVE	311513 / 922607	WILLIAMSON CREEK AQUIFER / UNKNOWN	041	03N	01W	INDUSTRIAL	492 / 28	12 / METAL	432-492	0166	E Q W
079	- 234	HATHORN, J F	311549 / 922339	WILLIAMSON CREEK AQUIFER / WHITE I B	003	03N	01E	DOMESTIC	420 / --	6		0833	Q W
079	-5727Z	HERITAGE NUR HM / MW-1	311517 / 922621	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / PETRON, INC.	041	03N	01W	MONITOR	30 / --	2 / PLASTIC	2 / 20-30	0794	D W
079	-5170Z	HILL CITY OIL / MW-4	311545 / 922652	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / PSI/PTL	045	03N	01W	MONITOR	19 / --	4 / PLASTIC	4 / 1-19	0387	D W
079	-5557Z	HOYT, JAMES JR / OW-1	311517 / 922617	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT / BCM ENGINEERS	041	03N	01W	MONITOR	14 / --	4 / PLASTIC	4 / 3-13	0691	D
079	-5558Z	HOYT, JAMES JR / OW-2	311517 / 922617	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT / BCM ENGINEERS	041	03N	01W	MONITOR	14 / --	4 / PLASTIC	4 / 3-13	0691	D
079	-5559Z	HOYT, JAMES JR / OW-3	311517 / 922617	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / BCM ENGINEERS	041	03N	01W	MONITOR	14 / --	4 / PLASTIC	4 / 3-13	0691	D
079	-5560Z	HOYT, JAMES JR / OW-4	311517 / 922617	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT / BCM ENGINEERS	041	03N	01W	MONITOR	14 / --	4 / PLASTIC	4 / 3-13	0691	D
079	-5601Z	HUBER OIL OF LA / MW-1	311530 / 922837	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / PETRON, INC.	043	03N	01W	MONITOR	15 / --	4 / PLASTIC	4 / 5-15	0192	D W
079	-5602Z	HUBER OIL OF LA / MW-2	311530 / 922837	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / PETRON, INC.	043	03N	01W	MONITOR	15 / --	4 / PLASTIC	4 / 5-15	0192	D W
079	-5603Z	HUBER OIL OF LA / MW-3	311530 / 922837	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT / PETRON, INC.	043	03N	01W	MONITOR	15 / --	4 / PLASTIC	4 / 5-15	0192	D W
079	-5604Z	HUBER OIL OF LA / MW-4	311530 / 922837	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / PETRON, INC.	043	03N	01W	MONITOR	12 / --	4 / PLASTIC	4 / 2-12	0192	D W
079	-5728Z	HUBER OIL OF LA / MW-1	311536 / 922651	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / J.E.I.	046	03N	01W	MONITOR	14 / --	4 / PLASTIC	4 / 2-14	0694	D W
079	-5729Z	HUBER OIL OF LA / MW-2	311536 / 922652	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT / J.E.I.	046	03N	01W	MONITOR	14 / --	4 / PLASTIC	4 / 2-14	0694	D W

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WITHIN A 4.0000 MILE RADIUS OF LATITUDE 311731 LONGITUDE 922641

PARISH CODE	WELL NUMBER	OWNER'S NAME / OWNER'S NO.	LATITUDE / LONGITUDE	GEOLOGIC UNIT / DRILLER	TOWN SECT	SHIP	RANGE	WELL USE	DEPTH / SUB USE	CASING DIAMETER / MATERIAL	SCREEN DIAMETER / INTERVAL	DRILL DATE	AVAIL INFO	
079	-5730Z	HUBER OIL OF LA	311536	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT					14	4	4	0694	D	W
		MW-3	922653	J.E I.	046	03N	01W	MONITOR	--	PLASTIC	2-14			
079	-5731Z	HUBER OIL OF LA	311537	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT					14	4	4	0694	D	W
		MW-4	922652	J E.I.	046	03N	01W	MONITOR	--	PLASTIC	2-14			
079	-5732Z	HUBER OIL OF LA	311536	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT					14	4	4	0694	D	W
		MW-5	922652	J.E.I.	046	03N	01W	MONITOR	--	PLASTIC	2-14			
079	-6039Z	HUBER OIL OF LA	311537	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT					12	2	2	0696	D	W
		MW-6	922653	J E I	046	03N	01W	MONITOR	--	PLASTIC	2-12			
079	-6204Z	HUBER OIL OF LA	311537	AQUIFER CODE NOT ASSIGNED					13	4	4	0997	D	W
		MW-7	922653	JONES BROTHERS	046	03N	01W	MONITOR	--	PLASTIC	3-13			
079	-6205Z	HUBER OIL OF LA	311537	AQUIFER CODE NOT ASSIGNED					12	4	4	0997	D	W
		MW-8	922653	JONES BROTHERS	046	03N	01W	MONITOR	--	PLASTIC	2-12			
079	-6340Z	HUBER OIL OF LA	311537	AQUIFER CODE NOT ASSIGNED					15	4	4	0299	D	W
		MW-9	922653	JONES BROTHERS	046	03N	01W	MONITOR	--	PLASTIC	2-14			
079	-6369Z	HUBER OIL OF LA	311537	AQUIFER CODE NOT ASSIGNED					12	2	2	0599	D	W
		MW-10	922653	JONES BROTHERS	046	03N	01W	MONITOR	--	PLASTIC	2-12			
079	-6370Z	HUBER OIL OF LA	311537	AQUIFER CODE NOT ASSIGNED					12	2	2	0599	D	W
		MW-11	922653	JONES BROTHERS	046	03N	01W	MONITOR	--	PLASTIC	2-12			
079	-5424Z	HUC INC	311709	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT					10		4	1189	D	W
		MW-2	922701	PETRON, INC.	063	04N	01W	MONITOR	--	PLASTIC	1-10			
079	-5425Z	HUC INC	311709	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT					10		4	1189	D	W
		MW-3	922701	PETRON, INC.	063	04N	01W	MONITOR	--	PLASTIC	1-10			
079	-5426Z	HUC INC	311709	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT					13	4	4	1189	D	W
		MW-4	922701	PETRON, INC	063	04N	01W	MONITOR	--	PLASTIC	3-13			
079	-5427Z	HUC INC	311709	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT					13	4	4	1189	D	W
		MW-5	922701	PETRON, INC.	063	04N	01W	MONITOR	--	PLASTIC	3-13			
079	- 235	HUDSON, JAMES E	311527	WILLIAMSON CREEK AQUIFER					487	6		1931	Q	W
			922331	BLEVINS L A	005	03N	01E	DOMESTIC	--		467-487			
079	- 233	HUDSON, W C	311652	WILLIAMSON CREEK AQUIFER					390	6		0634	Q	W
			922430	BLEVINS L A	004	04N	01E	DOMESTIC	--		375-390			
079	-5561Z	I-49 TRUCK PLAZ	311513	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT					12	4	4	0691	D	W
		MW-1	922617	BCM ENGINEERS	041	03N	01W	MONITOR	PA	PLASTIC	2-12			

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PARISH CODE	WELL NUMBER	OWNER'S NAME / OWNER'S NO.	LATITUDE / LONGITUDE	GEOLOGIC UNIT / DRILLER	TOWN SECT	SHIP	RANGE	WELL USE	DEPTH / SUB USE	CASING DIAMETER / MATERIAL	SCREEN DIAMETER / INTERVAL	DRILL DATE	AVAIL INFO	
079	-5562Z	I-49 TRUCK PLAZ / MW-2	311513 / 922617	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / BCM ENGINEERS	041	03N	01W	MONITOR	12 / PA	4 / PLASTIC	4 / 2-12	0691	D	W
079	-5563Z	I-49 TRUCK PLAZ / MW-3	311513 / 922617	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT / BCM ENGINEERS	041	03N	01W	MONITOR	12 / PA	4 / PLASTIC	4 / 2-12	0691	D	W
079	-5564Z	I-49 TRUCK PLAZ / MW-4	311513 / 922617	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT / BCM ENGINEERS	041	03N	01W	MONITOR	12 / PA	4 / PLASTIC	4 / 2-12	0691	D	W
079	-5565Z	I-49 TRUCK PLAZ / MW-5	311513 / 922617	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / BCM ENGINEERS	041	03N	01W	MONITOR	12 / PA	4 / PLASTIC	4 / 2-12	0691	D	W
079	-5566Z	I-49 TRUCK PLAZ / MW-6	311513 / 922617	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / BCM ENGINEERS	041	03N	01W	MONITOR	12 / PA	4 / PLASTIC	4 / 2-12	0691	D	W
079	- 813	INTERNAT PAPER / TH-2	311716 / 922307	NO WELL MADE, LOG DEPTH SHOWN / LAYNE (LA)	036	04N	01E	TEST HOLE	1548 / PA			0860	E	
079	-5046Z	INTERNAT PAPER / B-15	311656 / 922251	RED RIVER ALLUVIAL AQUIFER / STS	039	04N	01E	MONITOR	39 / PA	2 / PLASTIC	2 / 29-39	0384	D	W
079	-5047Z	INTERNAT PAPER / B-16	311626 / 922319	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / STS	044	04N	01E	MONITOR	49 / --	2 / PLASTIC	2 / 39-49	0384	DM	W
079	-5048Z	INTERNAT PAPER / B-17	311644 / 922330	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / STS	038	04N	01E	MONITOR	34 / --	2 / PLASTIC	2 / 24-34	0384	DM	W
079	-5757Z	INTERNAT PAPER / B-15A	311656 / 922251	RED RIVER ALLUVIAL AQUIFER / C-K ASSOCIATES	039	04N	01E	MONITOR	42 / --	4 / PLASTIC	4 / 30-40	1294	D	W
079	-6167Z	INTERNAT PAPER / B-70	311629 / 922328	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / C-K ASSOCIATES	038	04N	01E	PIEZOMETER	26 / --	2 / PLASTIC	2 / 14-24	0896	D	W
079	-6168Z	INTERNAT PAPER / B-71	311633 / 922307	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT / C-K ASSOCIATES	038	04N	01E	PIEZOMETER	20 / --	2 / PLASTIC	2 / 8-18	0896	D	W
079	-6170Z	INTERNAT PAPER / B-73	311700 / 922342	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / C-K ASSOCIATES	037	04N	01E	PIEZOMETER	37 / --	2 / PLASTIC	2 / 25-35	0896	D	W
079	- 181	JONES, HENRY	311609 / 922824	WILLIAMSON CREEK AQUIFER / KELLY	009	03N	01W	DOMESTIC	404 / --	3	384-404	0737	Q	W
079	- 660	KALB RADIO	311829 / 922453	AQUIFER UNKNOWN / UNKNOWN	021	04N	01E	PUBLIC SUPPLY	PA	4				

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079	- 32	KELLOGG LUMBER	311749 / 922625	WILLIAMSON CREEK AQUIFER / UNKNOWN	007	04N	01W	INDUSTRIAL	260 / -D			1938	
079	- 33	KELLOGG LUMBER	311750 / 922624	CARNAHAN BAYOU AQUIFER / WHITE I B	007	04N	01W	INDUSTRIAL	1098 / -D	6	1018-1098	1926	Q W
079	- 37	KELLOGG LUMBER	311748 / 922643	MIOCENE SERIES / UNKNOWN	006	04N	01W	INDUSTRIAL	-D	4		1938	W
079	- 41	KELLOGG LUMBER	311731 / 922708	WILLIAMSON CREEK AQUIFER / WHITE I B	042	04N	01W	INDUSTRIAL	400 / -D	6		1900	Q W
079	- 445	KELLOGG LUMBER	311746 / 922640	WILLIAMSON CREEK AQUIFER / UNKNOWN	007	04N	01W	INDUSTRIAL	350 / 99	3		1961	
079	- 854	KELLOGG LUMBER	311742 / 922636	CARNAHAN BAYOU AQUIFER / UNKNOWN	007	04N	01W	INDUSTRIAL	1120 / -D	6	6 / 1080-1120	0566	E Q W
079	- 182	KELLY, C O	311640 / 922859	WILLIAMSON CREEK AQUIFER / KELLY	066	04N	01W	DOMESTIC	480 / --	2	460-480	1934	Q W
079	- 200	L & A RAILROAD	311848 / 922550	CARNAHAN BAYOU AQUIFER / UNKNOWN	021	04N	01W	INDUSTRIAL	1134 / 99	6	MULTIPLE	0533	D W
079	- 203	LA COLLEGE	311929 / 922528	CARNAHAN BAYOU AQUIFER / WHITE I B	013	04N	01W	PUBLIC SUPPLY	1060 / PA	6	1020-1060	1920	E Q W
079	- 204	LA COLLEGE	311930 / 922528	CARNAHAN BAYOU AQUIFER / UNKNOWN	013	04N	01W	PUBLIC SUPPLY	1040 / PA	4		1906	W
079	- 430	LA COLLEGE 2	311953 / 922525	CARNAHAN BAYOU AQUIFER / BLEVINS, L P	021	04N	01W	PUBLIC SUPPLY	1072 / PA	12	8 / 1030-1070	0545	E W
079	- 35	LA DOTD	311715 / 922625	CARNAHAN BAYOU AQUIFER / BALL	005	04N	01W	INDUSTRIAL	1187 / PA	6	1147-1187	1930	W
079	-5155Z	LA DOTD	311417 / 922653	RED RIVER ALLUVIAL AQUIFER / UNKNOWN	048	03N	01W	DOMESTIC	70 / PA	2			
079	-5605Z	LA DOTD MW-1	312028 / 922557	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / PROFESSIONAL	012	04N	01W	MONITOR	24 / --	2 PLASTIC	2 / 9-24	0392	D W
079	-5606Z	LA DOTD MW-2	312030 / 922557	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT / PROFESSIONAL	012	04N	01W	MONITOR	22 / --	2 PLASTIC	2 / 7-22	0392	D W

9/14/1999 LOUISIANA DOTD - WATER WELL REGISTRATION SYSTEM PAGE 19
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079	-5607Z	LA DOTD	312028	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT					20	2	2	0392	D	W
		MW-3	922558	PROFESSIONAL	012	04N	01W	MONITOR	--	PLASTIC	8-20			
079	-5608Z	LA DOTD	312029	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT					24	2	2	0392	D	W
		MW-4	922557	PROFESSIONAL	012	04N	01W	MONITOR	--	PLASTIC	4-24			
079	-5609Z	LA DOTD	312029	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT					21	2	2	0392	D	W
		MW-5	922557	PROFESSIONAL	012	04N	01W	MONITOR	--	PLASTIC	6-21			
079	-1178	LA PACIFIC CORP	311724	CARNAHAN BAYOU AQUIFER					1165	8		0568	E	W
		4	922638	BLEVINS L P	006	04N	01W	INDUSTRIAL	99	STEEL	1125-1165			
079	-1334	LA PACIFIC CORP	311725	WILLIAMSON CREEK AQUIFER					330	4	4	1187	D	W
		1	922640	J.D.'S	006	04N	01W	INDUSTRIAL	24	PLASTIC	310-330			
079	-1335	LA PACIFIC CORP	311725	WILLIAMSON CREEK AQUIFER					338	4	4	1187	D	W
		2	922640	J D.'S	006	04N	01W	INDUSTRIAL	24	PLASTIC	318-338			
079	-1012	LA PUBLIC WORKS	311840	CARNAHAN BAYOU AQUIFER					1125	4X2	3	0773	EDMQ	W
		TEST	922535	THOMAS, DOYLE	021	04N	01W	TEST HOLE	PA	STEEL	1110-1120			
079	-1038	LA PUBLIC WORKS	312040	CARNAHAN BAYOU AQUIFER					920	4X2	3	0873	EDMQ	PW
		3	922548	THOMAS, DOYLE	001	04N	01W	TEST HOLE	PA	STEEL	910-920			
079	- 205	LA STATE HOSPTL	311942	CARNAHAN BAYOU AQUIFER					1080	12X10		1936	Q	W
		A	922610	UNKNOWN	018	04N	01W	PUBLIC SUPPLY	PA	METAL	MULTIPLE			
079	- 206	LA STATE HOSPTL	311938	CARNAHAN BAYOU AQUIFER					1100	10	8	1930		W
		B	922555	UNKNOWN	018	04N	01W	PUBLIC SUPPLY	PA		1040-1100			
079	- 207	LA STATE HOSPTL	311946	CARNAHAN BAYOU AQUIFER					1100	10				W
		C	922612	UNKNOWN	017	04N	01W	PUBLIC SUPPLY	PA					
079	- 208	LA STATE HOSPTL	311941	CARNAHAN BAYOU AQUIFER					1100	6		1923	D	W
		D	922616	UNKNOWN	017	04N	01W	PUBLIC SUPPLY	PA					
079	- 428	LA STATE HOSPTL	311959	CARNAHAN BAYOU AQUIFER					1043	12		0744	E M	P
		PINE	922614	UNKNOWN	018	04N	01W	OTHER	PA					
079	- 828	LA STATE HOSPTL	311942	CARNAHAN BAYOU AQUIFER					1026	12X8	8	0964	EDMQ	PW
			922612	MUSTANG DRLG	018	04N	01W	PUBLIC SUPPLY	PA	STEEL	994-1026			
079	-1328	LAND MARK SUBDI	311531	RED RIVER ALLUVIAL AQUIFER					120	4	4	0887	D	W
			922901	PEART'S	005	03N	01W	OTHER	-Z	PLASTIC	100-120			

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079	- 444	LAUNDRY, ALEX	311832	CARNAHAN BAYOU AQUIFER					1300	4				
			922658	UNKNOWN	009	04N	01W	INDUSTRIAL	99					
079	- 795	LAWRENCE, ELMO	312031	CARNAHAN BAYOU AQUIFER					472	4	3	0962		W
			922539	UNKNOWN	012	04N	01W	DOMESTIC	PA		452-472			
079	- 27	LOUISVILLE, LA	311918	CARNAHAN BAYOU AQUIFER					915	3		1228	Q	W
			922754	KELLY	014	04N	01W	INDUSTRIAL	99		875-915			
079	- 427	LUND, C L	311945	WILLIAMSON CREEK AQUIFER					260	2		1241	Q	W
			922918	SIMPSON	013	04N	01W	PUBLIC SUPPLY	-R		252-260			
079	-6079Z	M H C PROPERTY	311557	AQUIFER CODE NOT ASSIGNED					85	5 50				
			922715	UNKNOWN	047	03N	01W	OTHER	PA	STEEL				
079	-5719Z	MAPCO PETRO	311957	UPLAND TERRACE AQUIFER SURF. CONFINING UNIT					25	4	4	1093	D	W
		MW-1	922425	LAYNE (ENV)	007	04N	01E	MONITOR	--	PLASTIC	5-25			
079	-5720Z	MAPCO PETRO	311957	UPLAND TERRACE AQUIFER SURF. CONFINING UNIT					22	4	4	1093	D	W
		MW-2	922425	LAYNE (ENV)	007	04N	01E	MONITOR	--	PLASTIC	7-22			
079	-5721Z	MAPCO PETRO	311957	UPLAND TERRACE AQUIFER SURF. CONFINING UNIT					22	4	4	1093	D	W
		MW-3	922425	LAYNE (ENV)	007	04N	01E	MONITOR	--	PLASTIC	7-22			
079	-5722Z	MAPCO PETRO	311957	UPLAND TERRACE AQUIFER SURF. CONFINING UNIT					18	4	4	1093	D	W
		MW-4	922425	LAYNE (ENV)	007	04N	01E	MONITOR	--	PLASTIC	3-18			
079	-5723Z	MAPCO PETRO	311957	UPLAND TERRACE AQUIFER SURF CONFINING UNIT					25	4	4	1293	D	W
		MW-5	922425	LAYNE (ENV)	007	04N	01E	MONITOR	--	PLASTIC	5-25			
079	-5724Z	MAPCO PETRO	311957	UPLAND TERRACE AQUIFER SURF CONFINING UNIT					25	4	4	1293	D	W
		MW-6	922425	LAYNE (ENV)	007	04N	01E	MONITOR	--	PLASTIC	5-25			
079	-5725Z	MAPCO PETRO	311957	UPLAND TERRACE AQUIFER SURF. CONFINING UNIT					25	4	4	1293	D	W
		MW-7	922425	LAYNE (ENV)	007	04N	01E	MONITOR	--	PLASTIC	5-25			
079	-5726Z	MAPCO PETRO	31 7	UPLAND TERRACE AQUIFER SURF CONFINING UNIT					25	4	4	1293	D	W
		MW-8	92[illegible]	LAYNE (ENV)	007	04N	01E	MONITOR	--	PLASTIC	5-25			
079	-6051Z	MAPCO PETRO	312000	UPLAND TERRACE AQUIFER SURF CONFINING UNIT					20	4	4	0596	D	W
		MW-9	922424	SEMS, INC	007	04N	01E	MONITOR	--	PLASTIC	5-20			
079	-6052Z	MAPCO PETRO	312000	UPLAND TERRACE AQUIFER SURF. CONFINING UNIT					20	4	4	0596	D	W
		MW-10	922424	SEMS, INC.	007	04N	01E	MONITOR	--	PLASTIC	5-20			

WELLRQ3A - REGISTERED WATER WELLS IN RAPIDES -- SORTED BY OWNER'S NAME
REQ BY ECOLOGY & ENVIRONMENT - ALEXANDRIA PROJ - RAPIDES PARISH
WITHIN A 4.0000 MILE RADIUS OF LATITUDE 311731 LONGITUDE 922641

PARISH CODE	WELL NUMBER	OWNER'S NAME / OWNER'S NO.	LATITUDE / LONGITUDE	GEOLOGIC UNIT / DRILLER	TOWN SECT	SHIP	RANGE	WELL USE	DEPTH / SUB USE	CASING DIAMETER / MATERIAL	SCREEN DIAMETER / INTERVAL	DRILL DATE	AVAIL INFO
079	-6053Z	MAPCO PETRO MW_11	312000 922424	UPLAND TERRACE AQUIFER SURF. CONFINING UNIT SEMS, INC.	007	04N	01E	MONITOR	20 --	4 PLASTIC	4 5-20	0596	D W
079	-6054Z	MAPCO PETRO MW_12	312000 922424	UPLAND TERRACE AQUIFER SURF. CONFINING UNIT SEMS, INC.	007	04N	01E	MONITOR	20 --	4 PLASTIC	4 5-20	0596	D W
079	-6055Z	MAPCO PETRO MW_13	312000 922424	UPLAND TERRACE AQUIFER SURF. CONFINING UNIT SEMS, INC.	007	04N	01E	MONITOR	20 --	4 PLASTIC	4 5-20	0596	D W
079	- 36	MARTIN LUMBER	311728 922645	CARNAHAN BAYOU AQUIFER BLEVINS L P	006	04N	01W	INDUSTRIAL	1130 99	6		1938	Q W
079	- 454	MARTIN LUMBER	311728 922645	WILLIAMSON CREEK AQUIFER BLEVINS L P	006	04N	01W	INDUSTRIAL	341 99	6	6 311-341	0749	Q
079	- 198	MASONIC HOME	311535 922842	WILLIAMSON CREEK AQUIFER UNKNOWN	004	03N	01W	PUBLIC SUPPLY	500 -A	6		1922	Q W
079	-5399Z	MCCARTNEY OIL 1	311830 922731	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT PETRON, INC.	039	04N	01W	MONITOR	12 --	4 PLASTIC	4 2-12	0889	D W
079	-5400Z	MCCARTNEY OIL 2	311830 922731	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PETRON, INC.	039	04N	01W	MONITOR	13 --	4 PLASTIC	4 3-13	0889	D W
079	-5401Z	MCCARTNEY OIL 3	311830 922731	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT PETRON, INC.	039	04N	01W	MONITOR	12 --	4 PLASTIC	4 2-12	0889	D W
079	-5402Z	MCCARTNEY OIL 4	311830 922731	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PETRON, INC.	039	04N	01W	MONITOR	13 --	4 PLASTIC	4 3-13	0889	D W
079	- 26	MISSOURI PAC RR	311850 922734	CARNAHAN BAYOU AQUIFER UNKNOWN	040	04N	01W	OBSERVATION	1100 -W	10		1915	E PW
079	- 438	MISSOURI PAC RR 2	311645 922632	WILLIAMSON CREEK AQUIFER WHITE I B	054	04N	01W	INDUSTRIAL	389 PA	8	338-382	0925	D
079	- 44	MISSOURI PAC RR	311645 922633	WILLIAMSON CREEK AQUIFER WHITE I B	055	04N	01W	INDUSTRIAL	400 99	16		1929	W
079	- 45	MISSOURI PAC RR 13	311555 922621	WILLIAMSON CREEK AQUIFER WHITE I B	045	03N	01W	INDUSTRIAL	423 -D	10X8	6 382-423	1029	D Q W
079	-6395Z	MOORE, PETE MW-2	311718 922820	AQUIFER CODE NOT ASSIGNED GROWTH	033	04N	01W	MONITOR	15 EX	2 PLASTIC		0695	

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PARISH CODE	WELL NUMBER	OWNER'S NAME / OWNER'S NO	LATITUDE / LONGITUDE	GEOLOGIC UNIT / DRILLER	SECT	TOWN SHIP	RANGE	WELL USE	DEPTH / SUB USE	CASING DIAMETER / MATERIAL	SCREEN DIAMETER / INTERVAL	DRILL DATE	AVAIL INFO
079	-6396Z	MOORE, PETE MW-6	311716 922820	AQUIFER CODE NOT ASSIGNED GROWTH	033	04N	01W	MONITOR	15 EX	2 PLASTIC		0695	
079	-6397Z	MOORE, PETE MW-7	311717 922820	AQUIFER CODE NOT ASSIGNED GROWTH	033	04N	01W	MONITOR	15 EX	4 PLASTIC		0695	
079	-6398Z	MOORE, PETE MW-14	311716 922820	AQUIFER CODE NOT ASSIGNED GROWTH	033	04N	01W	MONITOR	30 PA	2 PLASTIC		0695	
079	-6399Z	MOORE, PETE RW-2	311717 922820	AQUIFER CODE NOT ASSIGNED PETRON, INC	033	04N	01W	RECOVERY	20 EX	4 PLASTIC		0596	
079	-6400Z	MOORE, PETE RW-3	311717 922820	AQUIFER CODE NOT ASSIGNED KOURCO	033	04N	01W	RECOVERY	18 --	4 PLASTIC	4 8-18	0799	D W
079	-6401Z	MOORE, PETE RW-4	311716 922820	AQUIFER CODE NOT ASSIGNED KOURCO	033	04N	01W	RECOVERY	19 --	4 PLASTIC	4 9-19	0799	D W
079	-6402Z	MOORE, PETE RW-5	311716 922820	AQUIFER CODE NOT ASSIGNED KOURCO	033	04N	01W	RECOVERY	19 --	4 PLASTIC	4 9-19	0799	D W
079	-6403Z	MOORE, PETE RW-6	311718 922820	AQUIFER CODE NOT ASSIGNED KOURCO	033	04N	01W	RECOVERY	18 --	4 PLASTIC	4 8-18	0799	D W
079	- 277	MURCHISON, H	312018 922503	CARNAHAN BAYOU AQUIFER BLEVINS L A	015	04N	01W	DOMESTIC	291 --			0338	Q
079	- 187	MURRELL, W L	311628 922748	RED RIVER ALLUVIAL AQUIFER GUNNER	051	04N	01W	IRRIGATION	75 -S	2	72-75	0638	Q W
079	- 23	NATATORIUM	311722 922831	CATAHOULA AQUIFER CLIFFORD L B	033	04N	01W	PUBLIC SUPPLY	1880 PA	6		1911	D
079	- 53	NEYLAND, W L	311431 922551	WILLIAMSON CREEK AQUIFER BLEVINS L A	036	03N	01W	DOMESTIC	540 --	3	520-540	1136	Q W
079	-5509Z	NICEWARNER, E F	312030 922436	UPLAND TERRACE AQUIFER UNKNOWN	007	04N	01E	HEAT PUMP	130 HS	4 PLASTIC	4 120-130	0779	W
079	- 305	OLD COTTON BROS	311821 922723	CARNAHAN BAYOU AQUIFER UNKNOWN	040	04N	01W	INDUSTRIAL	620 PA	6	590-620	1238	D Q W
079	-6162Z	PHOMMARATH, K	311833 922413	AQUIFER CODE NOT ASSIGNED HARPER'S (KEN)	022	04N	01E	DOMESTIC	105 --	2 PLASTIC	2 95-105	0697	D W

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

BATON ROUGE

WELLRQ3A - REGISTERED WATER WELLS IN RAPIDES -- SORTED BY OWNER'S NAME

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WITHIN A 4.0000 MILE RADIUS OF LATITUDE 311731 LONGITUDE 922641

PARISH CODE	WELL NUMBER	OWNER'S NAME / OWNER'S NO.	LATITUDE / LONGITUDE	GEOLOGIC UNIT / DRILLER	TOWN SECT	SHIP	RANGE	WELL USE	DEPTH / SUB USE	CASING DIAMETER / MATERIAL	SCREEN DIAMETER / INTERVAL	DRILL DATE	AVAIL INFO
079	- 34	PINE PROD CO	311738 / 922629	CARNAHAN BAYOU AQUIFER / WHITE I B	006	04N	01W	INDUSTRIAL	1100 / -A	4			Q W
079	- 313	PINEVILLE, LA / 2	311918 / 922604	CARNAHAN BAYOU AQUIFER / UNKNOWN	020	04N	01W	PUBLIC SUPPLY	1075 / -D	10		1139	DM W
079	- 411	PINEVILLE, LA / LAKEVIEW	311900 / 922616	CARNAHAN BAYOU AQUIFER / LA WELL CO	021	04N	01W	PUBLIC SUPPLY	1065 / PA	12X6 / METAL	6 / 1015-1065	0841	D Q W
079	- 412	PINEVILLE, LA / WHITE#1	312019 / 922547	CARNAHAN BAYOU AQUIFER / WHITE I B	012	04N	01W	PUBLIC SUPPLY	1026 / PA	12	12 / 986-1026	0342	M W
079	- 413	PINEVILLE, LA / WHITE#2	311955 / 922525	CARNAHAN BAYOU AQUIFER / UNKNOWN	012	04N	01W	PUBLIC SUPPLY	1050 / -D	12	12 / 1010-1050	0442	W
079	- 414	PINEVILLE, LA / WHITE#3	311945 / 922553	CARNAHAN BAYOU AQUIFER / UNKNOWN	019	04N	01W	PUBLIC SUPPLY	1042 / -A	12	12 / 994-1042	0442	W
079	- 614	PINEVILLE, LA / ONEAL ST#4	311955 / 922525	CARNAHAN BAYOU AQUIFER / BLEVINS L P	012	04N	01W	PUBLIC SUPPLY	1040 / -P	12X6	6 / 985-1040	1256	ED PW
079	- 615	PINEVILLE, LA / WEBSTER#2	311958 / 922443	NO WELL MADE, LOG DEPTH SHOWN / BLEVINS L P	007	04N	01E	TEST HOLE	1200 / PA			1056	ED
079	- 616	PINEVILLE, LA / 2	311920 / 922608	CARNAHAN BAYOU AQUIFER / UNKNOWN	019	04N	01W	PUBLIC SUPPLY	1078 / -P	12X6	6 / 1038-1078	1256	E Q W
079	- 619	PINEVILLE, LA / BRICE ST	311907 / 922601	CARNAHAN BAYOU AQUIFER / UNKNOWN	021	04N	01W	PUBLIC SUPPLY	1080 / -P	12X6	6 / 1020-1080	0357	E PW
079	-1080	PINEVILLE, LA	312038 / 922547	CARNAHAN BAYOU AQUIFER / UNKNOWN	001	04N	01W	PUBLIC SUPPLY	932 / -P	12X8 / METAL	8 / 882-932	0274	D Q W
079	-1225	PINEVILLE, LA	311944 / 922552	CARNAHAN BAYOU AQUIFER / CALHOUN	018	04N	01W	PUBLIC SUPPLY	1036 / -P	12 / STEEL	8 / 968-1036	0582	EDM W
079	-1409	PINEVILLE, LA / O'NEAL ST	311953 / 922528	CARNAHAN BAYOU AQUIFER / CONTINENTAL	012	04N	01W	PUBLIC SUPPLY	1013 / -P	12X8 / STEEL	8 / 963-1013	0495	EDMQ PW
079	-1426	PINEVILLE, LA / LAKEVIEW	311900 / 922615	AQUIFER CODE NOT ASSIGNED / LAYNE (MS)	021	04N	01W	PUBLIC SUPPLY	1071 / -P	20X12 / STEEL	8 / 1017-1067	0697	ED Q W
079	- 300	PRIEST, GUY	311914 / 922340	UPLAND TERRACE AQUIFER / UNKNOWN	017	04N	01E	DOMESTIC	--			1935	W

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079	- 805	R SCHOOL BOARD	311551 / 922614	WILLIAMSON CREEK AQUIFER / SIMPSON	044	03N	01W	PUBLIC SUPPLY		413 / -T	4X3	3 / 393-413	1952		
079	- 47	RAMMSBOTTOM	311528 / 922710	WILLIAMSON CREEK AQUIFER / BLEVINS L A	046	03N	01W	DOMESTIC		510 / --	6	470-510	1934	Q	W
079	- 48	RAMMSBOTTOM	311528 / 922710	RED RIVER ALLUVIAL AQUIFER / BLEVINS L A	046	03N	01W	DOMESTIC		87 / -A	2		1931		W
079	- 49	RAMMSBOTTOM	311528 / 922710	RED RIVER ALLUVIAL AQUIFER / BLEVINS L A	046	03N	01W	DOMESTIC		103 / --	6	83-103	1935		W
079	- 50	RAMMSBOTTOM	311528 / 922710	WILLIAMSON CREEK AQUIFER / BLEVINS L A	046	03N	01W	DOMESTIC		235 / -A	4		1938		W
079	-5515Z	RAPIDES BANK MW-1	311830 / 922731	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / PETRON, INC.	039	04N	01W	MONITOR		15 / --	2 PLASTIC	2 / 5-15	0391	D	W
079	-5516Z	RAPIDES BANK MW-2	311830 / 922731	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / PETRON, INC.	039	04N	01W	MONITOR		13 / --	4 PLASTIC	4 / 3-13	0391	D	W
079	-5517Z	RAPIDES BANK MW-3	311830 / 922731	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / PETRON, INC.	039	04N	01W	MONITOR		13 / --	4 PLASTIC	4 / 3-13	0391	D	W
079	-5518Z	RAPIDES BANK MW-4	311830 / 922731	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT / PETRON, INC.	039	04N	01W	MONITOR		13 / --	4 PLASTIC	4 / 3-13	0391	D	W
079	-5519Z	RAPIDES BANK MW-5	311830 / 922731	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / PETRON, INC.	039	04N	01W	MONITOR		13 / --	4 PLASTIC	4 / 3-13	0391	D	W
079	-5663Z	RAPIDES BANK MW-A	311830 / 922729	RED RIVER ALLUVIAL AQUIFER / J E I	039	04N	01W	DOMESTIC		13 / --	4 PLASTIC	4 / 3-13	0493	D	W
079	-5664Z	RAPIDES BANK MW-B	311830 / 922729	RED RIVER ALLUVIAL AQUIFER / J.E.I.	039	04N	01W	DOMESTIC		13 / --	4 PLASTIC	4 / 3-13	0493	D	W
079	-5665Z	RAPIDES BANK MW-C	311830 / 922729	RED RIVER ALLUVIAL AQUIFER / J.E I	039	04N	01W	DOMESTIC		13 / --	4 PLASTIC	4 / 3-13	0493	D	W
079	-5666Z	RAPIDES BANK MW-D	311830 / 922729	RED RIVER ALLUVIAL AQUIFER / J.E.I.	039	04N	01W	DOMESTIC		13 / --	4 PLASTIC	4 / 3-13	0493	D	W
079	-6264Z	RAPIDES BANK MW-6	311830 / 922731	AQUIFER CODE NOT ASSIGNED / PETRON, INC.	039	04N	01W	MONITOR		15 / --	4 PLASTIC	4 / 5-15	0998	D	W
079	-5405Z	RAPIDES OIL 1	311544 / 922837	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / PETRON, INC.	046	03N	01W	MONITOR		13 / --	4 PLASTIC	4 / 1-13	0389	D	

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9/14/1999 LOUISIANA DOTD - WATER WELL REGISTRATION SYSTEM PAGE 25

WELLRQ3A - REGISTERED WATER WELLS IN RAPIDES -- SORTED BY OWNER'S NAME
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079	-5406Z	RAPIDES OIL / 2	311544 / 922837	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / PETRON, INC.	046	03N	01W	MONITOR	13 / --	4 / PLASTIC	4 / 1-13	0389	D
079	-5416Z	RAPIDES OIL	311511 / 922848	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT / PETRON, INC.	024	03N	01W	MONITOR	13 / --	PLASTIC	4 / 1-13	1289	D
079	-5417Z	RAPIDES OIL	311511 / 922848	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / PETRON, INC.	024	03N	01W	MONITOR	13 / --	PLASTIC	4 / 1-13	1289	D
079	- 39	RAPIDES PACKING	311731 / 922505	CARNAHAN BAYOU AQUIFER / WHITE I E	002	04N	01W	INDUSTRIAL	885 / -D	8	865-885	1924	Q W
079	- 604	RAPIDES PACKING	311731 / 922505	CARNAHAN BAYOU AQUIFER / UNKNOWN	002	04N	01W	INDUSTRIAL	856 / -A	8	8 / 834-856	0356	E
079	-5307Z	RED RIVER COMM	312051 / 922646	UPLAND TERRACE AQUIFER / UNKNOWN	002	05N	01W	PUBLIC SUPPLY	69 / PA	4			
079	-1382	REMBERT, JIMMIE	311805 / 922526	RED RIVER ALLUVIAL AQUIFER / PEART'S	024	04N	01W	IRRIGATION	100 / --	2 / PLASTIC	2 / 90-100	1091	D W
079	- 28	ROCK ISLAND RR	311805 / 922632	RED RIVER ALLUVIAL AQUIFER / UNKNOWN	007	04N	01W	OTHER	60 / -F			1918	W
079	- 31	RUSTON MACHINE	311750 / 922624	RED RIVER ALLUVIAL AQUIFER / UNKNOWN	008	04N	01W	INDUSTRIAL	104 / -A	4	64-104	1908	Q W
079	-5483Z	RYDER TRUCK / MW-1	311840 / 922844	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / LAW (TX)	020	04N	01W	MONITOR	15 / --	2 / PLASTIC	2 / 5-15	1190	D W
079	-5484Z	RYDER TRUCK / MW-2	311840 / 922844	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / LAW (TX)	020	04N	01W	MONITOR	15 / --	2 / PLASTIC	2 / 5-15	1190	D W
079	-5485Z	RYDER TRUCK / MW-3	311840 / 922844	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / LAW (TX)	020	04N	01W	MONITOR	16 / --	2 / PLASTIC	2 / 6-16	1190	D W
079	-5486Z	RYDER TRUCK / MW-4	311840 / 922844	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / LAW (TX)	020	04N	01W	MONITOR	16 / --	2 / PLASTIC	2 / 6-16	1190	D W
079	- 151	SAGGUS, J E	311945 / 922921	WILLIAMSON CREEK AQUIFER / KELLY	013	04N	01W	DOMESTIC	290 / --	1.50	278-290	0934	Q W

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079	-5421Z	SAIA TRUCK LINE MW-1	311551 922813	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PETRON, INC.	043	03N	01W	MONITOR	13 --	PLASTIC	4 1-13	0190	D	W
079	-5422Z	SAIA TRUCK LINE MW-2	311551 922813	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT PETRON, INC.	043	03N	01W	MONITOR	13 --	PLASTIC	4 1-13	0190	D	W
079	-5423Z	SAIA TRUCK LINE MW-3	311551 922813	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PETRON, INC.	043	03N	01W	MONITOR	13 --	PLASTIC	4 1-13	0190	D	W
079	-5473Z	SAIA TRUCK LINE MW-4	311551 922813	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT PETRON, INC	043	03N	01W	MONITOR	13 --	4 PLASTIC	4 3-13	1090	D	W
079	-5474Z	SAIA TRUCK LINE MW-5	311551 922813	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT PETRON, INC.	043	03N	01W	MONITOR	13 --	4 PLASTIC	4 3-13	1090	D	W
079	- 152	SMITH, J L	311938 922908	WILLIAMSON CREEK AQUIFER HARPER F	080	04N	01W	PUBLIC SUPPLY	240 -R	3	230-240	1937	Q	W
079	- 784	SOUTHERN BELL	311830 922648	NO WELL MADE, LOG DEPTH SHOWN GREEN K	009	04N	01W	CATHODIC	200 --			0462	E	
079	-5303Z	SOUTHLAND CORP MW-1	[illegible]	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT IT CORPORATION	032	04N	01W	MONITOR	13 --	PLASTIC	4 1-13	0888	D	W
079	-5304Z	SOUTHLAND CORP MW-2	[illegible] 922830	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT IT CORPORATION	032	04N	01W	MONITOR	15 --	4 PLASTIC	4 1-15	0888	D	W
079	-5305Z	SOUTHLAND CORP MW-1	311604 922814	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT IT CORPORATION	043	03N	01W	MONITOR	13 --	PLASTIC	4 1-13	0888	D	W
079	-5306Z	SOUTHLAND CORP MW-2	311604 922814	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT IT CORPORATION	043	03N	01W	MONITOR	14 PA	4 PLASTIC	4 4-14	0888	D	W
079	-5437Z	SOUTHLAND CORP MW-3	311717 922830	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT IT CORPORATION	027	04N	01W	MONITOR	15 --	4 PLASTIC	4 1-15	0390	D	W
079	-5513Z	SOUTHLAND CORP MW-5	311716 922821	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT J.E.I.	033	04N	01W	MONITOR	20 --	4 PLASTIC	4 2-20	0692	D	W
079	-5600Z	SOUTHLAND CORP MW-4	311716 922821	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT J.E.I.	033	04N	01W	MONITOR	20 --	4 PLASTIC	4 2-17	0991	D	W
079	-5680Z	SOUTHLAND CORP MW-6	311719 922822	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT J E I.	033	04N	01W	MONITOR	15 -D	4 PLASTIC	4 2-15	0893	D	W

WELLRQ3A - REGISTERED WATER WELLS IN RAPIDES -- SORTED BY OWNER'S NAME
REQ BY:ECOLOGY & ENVIRONMENT - ALEXANDRIA PROJ - RAPIDES PARISH
WITHIN A 4.0000 MILE RADIUS OF LATITUDE 311731 LONGITUDE 922641

PARISH CODE	WELL NUMBER	OWNER'S NAME / OWNER'S NO	LATITUDE / LONGITUDE	GEOLOGIC UNIT / DRILLER	TOWN SECT	SHIP	RANGE	WELL USE	DEPTH / SUB USE	CASING DIAMETER / MATERIAL	SCREEN DIAMETER / INTERVAL	DRILL DATE	AVAIL INFO	
079	-5684Z	T L JAMES	311831	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT					51	6	6	0993	D	W
		W-1	922702	MORETRENCH	009	04N	01W	DEWATERING	PA	PLASTIC	31-51			
079	-5685Z	T L JAMES	311831	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT					51	6	6	0993	D	W
		W-2	922702	MORETRENCH	009	04N	01W	DEWATERING	PA	PLASTIC	31-51			
079	-5686Z	T L JAMES	311831	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT					53	6	6	0993	D	W
		W-3	922702	MORETRENCH	009	04N	01W	DEWATERING	PA	PLASTIC	33-53			
079	-5687Z	T L JAMES	311831	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT					52	6	6	0993	D	W
		W-4	922702	MORETRENCH	009	04N	01W	DEWATERING	PA	PLASTIC	32-52			
079	-5688Z	T L JAMES	311831	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT					53	6	6	0993	D	W
		W-5	922702	MORETRENCH	009	04N	01W	DEWATERING	PA	PLASTIC	32-52			
079	-5689Z	T L JAMES	311831	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT					53	6	6	0993	D	W
		W-6	922702	MORETRENCH	009	04N	01W	DEWATERING	PA	PLASTIC	33-53			
079	- 46	TANNER, W L	311615	RED RIVER ALLUVIAL AQUIFER					84	1.25		1927	Q	W
			922642	TANNER W L	046	03N	01W	DOMESTIC	--					
079	- 711	THIELS, JOHN	311510	RED RIVER ALLUVIAL AQUIFER					110	3	3	1954		W
			922853	UNKNOWN	004	03N	01W	IRRIGATION	--		98-110			
079	-1312	U S CORPS ENGRS	311859	RED RIVER ALLUVIAL AQUIFER					74	1 25	1.25	0487	DM	W
		AL-L1-1	922910	U.S. ARMY (VED)	021	04N	01W	OBSERVATION	-0	PLASTIC	71-73			
079	-1312P	U S CORPS ENGRS	311859	RED RIVER ALLUVIAL AQUIFER					24	1.25	1.25	0487	D	W
		AL-L1-1S	922910	U.S ARMY (VED)	021	04N	01W	OBSERVATION	-0	PLASTIC	22-24			
079	-1313	U S CORPS ENGRS	311810	RED RIVER ALLUVIAL AQUIFER					74	1 25	1 25	0487	DM	W
		AL-L1-2	923010	U S ARMY (VED)	026	04N	01W	OBSERVATION	-0	PLASTIC	72-74			
079	-1313P	U S CORPS ENGRS	311810	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT					24	1.25	1.25	0487	D	W
		AL-L1-2S	923010	U.S. ARMY (VED)	026	04N	01W	OBSERVATION	-0	PLASTIC	21-24			
079	-1314	U S CORPS ENGRS	311724	RED RIVER ALLUVIAL AQUIFER					74	1.25	1.25	0487	DM	W
		AL-L2-1	922908	U.S. ARMY (VED)	029	04N	01W	OBSERVATION	-0	PLASTIC	71-74			
079	-1314P	U S CORPS ENGRS	311724	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT					13	1.25	1.25	0487	D	W
		AL-L2-1S	922908	U.S. ARMY (VED)	029	04N	01W	OBSERVATION	-0	PLASTIC	11-13			
079	-1316	U S CORPS ENGRS	311555	RED RIVER ALLUVIAL AQUIFER					84	1.25	1.25	0487	DM	W
		AL-L3-1	922845	U.S. ARMY (VED)	005	03N	01W	OBSERVATION	-0	PLASTIC	82-84			
079	-1316P	U S CORPS ENGRS	311555	RED RIVER ALLUVIAL AQUIFER					24	1.25	1.25	0487	D	W
		AL-L3-1S	922845	U S. ARMY (VED)	005	03N	01W	OBSERVATION	-0	PLASTIC	22-24			

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PARISH CODE	WELL NUMBER	OWNER'S NAME / OWNER'S NO.	LATITUDE / LONGITUDE	GEOLOGIC UNIT / DRILLER	TOWN SECT	SHIP	RANGE	WELL USE	DEPTH / SUB USE	CASING DIAMETER / MATERIAL	SCREEN DIAMETER / INTERVAL	DRILL DATE	AVAIL INFO	
079	-5681Z	SOUTHLAND CORP MW-7	311717 922822	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT J.E.I.	033	04N	01W	MONITOR	18 --	4 PLASTIC	4 3-18	0893	D	W
079	-5682Z	SOUTHLAND CORP MW-8	311718 922823	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT J.E I.	033	04N	01W	MONITOR	15 --	4 PLASTIC	4 2-15	0893	D	W
079	-5693Z	SOUTHLAND CORP OW-1	311718 922823	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT UNKNOWN	033	04N	01W	MONITOR	15 PA	4 PLASTIC				
079	-5694Z	SOUTHLAND CORP MW-1	311718 922823	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT UNKNOWN	033	04N	01W	MONITOR	15 PA	4 PLASTIC				
079	-5758Z	SOUTHLAND CORP MW-9	311718 922823	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT ANDERSON	033	04N	01W	MONITOR	17 --	4 PLASTIC	4 2-17	1194	D	W
079	-5759Z	SOUTHLAND CORP MW-10	311719 922821	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT ANDERSON	033	04N	01W	MONITOR	17 --	4 PLASTIC	4 2-17	1194	D	W
079	- 29	SWOPE	311805 922627	AQUIFER UNKNOWN UNKNOWN	007	04N	01W	INDUSTRIAL	-A	4		1938		W
079	- 30	SWOPE	311727 922509	RED RIVER ALLUVIAL AQUIFER UNKNOWN	007	04N	01W	INDUSTRIAL	60 99	4		1938		W
079	-5444Z	T L JAMES	311940 922833	RED RIVER ALLUVIAL AQUIFER PEART'S	015	04N	01W	OTHER	70 PA	4 PLASTIC	4 50-70	0290	D	W
079	-5445Z	T L JAMES	311940 922833	RED RIVER ALLUVIAL AQUIFER PEART'S	015	04N	01W	OTHER	70 PA	4 PLASTIC	4 50-70	0290	D	W
079	-5651Z	T L JAMES W-1	311830 922701	RED RIVER ALLUVIAL AQUIFER MORETRENCH	008	04N	01W	DEWATERING	65 PA	6 PLASTIC	6 45-65	1292	D	W
079	-5652Z	T L JAMES W-2	311830 922701	RED RIVER ALLUVIAL AQUIFER MORETRENCH	008	04N	01W	DEWATERING	63 PA	6 PLASTIC	6 43-63	1292	D	W
079	-5653Z	T L JAMES W-3	311830 922701	RED RIVER ALLUVIAL AQUIFER MORETRENCH	008	04N	01W	DEWATERING	63 PA	6 PLASTIC	6 43-63	1292	D	W
079	-5654Z	T L JAMES W-4	311830 922701	RED RIVER ALLUVIAL AQUIFER MORETRENCH	008	04N	01W	DEWATERING	62 PA	6 PLASTIC	6 42-62	1292	D	W
079	-5655Z	T L JAMES W-5	311830 922701	RED RIVER ALLUVIAL AQUIFER MORETRENCH	008	04N	01W	DEWATERING	61 PA	6 PLASTIC	6 41-61	1292	D	W
079	-5656Z	T L JAMES W-6	311830 922701	RED RIVER ALLUVIAL AQUIFER MORETRENCH	008	04N	01W	DEWATERING	61 PA	6 PLASTIC	6 41-61	0193	D	W

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PARISH CODE	WELL NUMBER	OWNER'S NAME / OWNER'S NO.	LATITUDE / LONGITUDE	GEOLOGIC UNIT / DRILLER	TOWN SECT SHIP RANGE	WELL USE	DEPTH SUB USE	CASING DIAMETER / MATERIAL	SCREEN DIAMETER / INTERVAL	DRILL DATE	AVAIL INFO	
079	-1318	U S CORPS ENGRS / AL-L4-1	311713 / 922528	RED RIVER ALLUVIAL AQUIFER / U.S. ARMY (VED)	002 04N 01W	OBSERVATION	74 / PA	1.25 / PLASTIC	1.25 / 71-73	0487	DM	W
079	-1318P	U S CORPS ENGRS / AL-L4-1S	311713 / 922528	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT / U.S ARMY (VED)	002 04N 01W	OBSERVATION	16 / PA	1.25 / PLASTIC	1.25 / 13-16	0487	D	W
079	-5846Z	U S D A - S C S / R722A	311631 / 922809	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / UNKNOWN	050 04N 01W	PIEZOMETER	10 / PA	0.50 / METAL				
079	-5847Z	U S D A - S C S / R722B	311631 / 922809	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT / UNKNOWN	050 04N 01W	PIEZOMETER	19 / PA	0.50 / METAL				
079	-5848Z	U S D A - S C S / R723A	311837 / 922626	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / UNKNOWN	007 04N 01W	PIEZOMETER	3 / PA	0.50 / METAL				
079	-5849Z	U S D A - S C S / R723B	311837 / 922626	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / UNKNOWN	007 04N 01W	PIEZOMETER	20 / PA	0 50 / METAL				
079	-5883Z	U S D A - S C S / R949A	311614 / 922522	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / UNKNOWN	075 03N 01W	PIEZOMETER	2 / PA	0.50 / METAL				
079	-5884Z	U S D A - S C S / R949B	311614 / 922522	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / UNKNOWN	075 03N 01W	PIEZOMETER	3 / PA	0 50 / METAL				
079	-5885Z	U S D A - S C S / R949C	311614 / 922522	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / UNKNOWN	075 03N 01W	PIEZOMETER	5 / PA	0.50 / METAL				
079	-5886Z	U S D A - S C S / R949D	311614 / 922522	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / UNKNOWN	075 03N 01W	PIEZOMETER	8 / PA	0.50 / METAL				
079	-5887Z	U S D A - S C S / R949E	311614 / 922522	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / UNKNOWN	075 03N 01W	PIEZOMETER	20 / PA	0.50 / METAL				
079	-5944Z	U S D A - S C S / R1135A	311817 / 922615	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / UNKNOWN	007 04N 01W	PIEZOMETER	5 / PA	0 50 / METAL				
079	-5945Z	U S D A - S C S / R1138A	311844 / 922747	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / UNKNOWN	038 04N 01W	PIEZOMETER	6 / PA	0.50 / METAL				
079	-5946Z	U S D A - S C S / R1138B	311844 / 922747	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / UNKNOWN	038 04N 01W	PIEZOMETER	16 / PA	0.50 / METAL				
079	-5947Z	U S D A - S C S / R1139A	311942 / 922858	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / UNKNOWN	017 04N 01W	PIEZOMETER	2 / PA	0.50 / METAL				
079	-5948Z	U S D A - S C S / R1139B	311942 / 922858	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT / UNKNOWN	017 04N 01W	PIEZOMETER	5 / PA	0.50 / METAL				

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079	-5950Z	U S D A - S C S R1144A	311718 922831	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT UNKNOWN	032	04N	01W	PIEZOMETER	7 PA	0.50 METAL			
079	-5951Z	U S D A - S C S R1144B	311718 922831	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT UNKNOWN	032	04N	01W	PIEZOMETER	19 PA	0.50 METAL			
079	-5952Z	U S D A - S C S R1152A	311600 922940	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT UNKNOWN	010	03N	01W	PIEZOMETER	7 PA	0.50 METAL			
079	-5953Z	U S D A - S C S R1152B	311600 922940	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT UNKNOWN	010	03N	01W	PIEZOMETER	20 PA	0 50 METAL			
079	-5954Z	U S D A - S C S R1153A	311719 922444	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT UNKNOWN	001	04N	01E	PIEZOMETER	2 PA	0.50 METAL			
079	-5955Z	U S D A - S C S R1153B	311719 922444	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT UNKNOWN	001	04N	01E	PIEZOMETER	3 PA	0 50 METAL			
079	-5956Z	U S D A - S C S R1154A	311658 922708	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT UNKNOWN	007	04N	01W	PIEZOMETER	3 PA	0.50 METAL			
079	-5957Z	U S D A - S C S R1169A	311835 922656	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT UNKNOWN	009	04N	01W	PIEZOMETER	9 PA	0 50 METAL			
079	- 722	U S GEOL SURVEY	311830 922810	RED RIVER ALLUVIAL AQUIFER U.S.G.S.	050	04N	01W	OBSERVATION	87 -W	1.25 METAL	1.25 84-87	0358	D Q W
079	- 723	U S GEOL SURVEY	311836 922627	RED RIVER ALLUVIAL AQUIFER U S.G S	007	04N	01W	OBSERVATION	75 -W	1 25 STEEL	1 25 72-75	0358	D Q W
079	- 745	U S GEOL SURVEY	311549 922329	RED RIVER ALLUVIAL AQUIFER U S.G S.	003	03N	01E	OBSERVATION	77 -W	1.25 METAL	1 25 74-77	0658	D Q W
079	- 949	U S GEOL SURVEY	311614 922520	RED RIVER ALLUVIAL AQUIFER U S G S	070	04N	01W	OBSERVATION	66 PA	1 25 METAL	1 25 63-66	1169	D Q W
079	- 950	U S GEOL SURVEY	311455 922508	RED RIVER ALLUVIAL AQUIFER U.S.G.S.	037	03N	01E	TEST HOLE	107 PA			0658	D W
079	-1132	U S GEOL SURVEY	311936 922712	RED RIVER ALLUVIAL AQUIFER U.S G S.	016	04N	01W	OBSERVATION	55 -D	1.25 METAL	1 25 52-55	0178	D Q W
079	-1135	U S GEOL SURVEY	311815 922637	RED RIVER ALLUVIAL AQUIFER U.S.G.S.	007	04N	01W	OBSERVATION	85 -W	1.25 METAL	1 25 82-85	0178	D Q W
079	-1138	U S GEOL SURVEY	311843 922746	RED RIVER ALLUVIAL AQUIFER U.S G.S.	038	04N	01W	TEST HOLE	74 PA	1.25 METAL	1.25 71-74	0278	D Q W

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

BATON ROUGE

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079	-1139	U S GEOL SURVEY	311937 / 922853	RED RIVER ALLUVIAL AQUIFER / U.S.G.S.	017	04N	01W	TEST HOLE	63 / --	1.25 / METAL	1 25 / 61-63	0278	D Q W
079	-1142	U S GEOL SURVEY	311531 / 922637	RED RIVER ALLUVIAL AQUIFER / U S G S	045	03N	01W	TEST HOLE	97 / --	1.25 / METAL	1.25 / 94-97	0278	D Q W
079	-1144	U S GEOL SURVEY	311723 / 922830	RED RIVER ALLUVIAL AQUIFER / U.S.G.S	032	04N	01W	OBSERVATION	95 / -D	1.25 / METAL	1.25 / 92-95	0278	D Q W
079	-1145	U S GEOL SURVEY	311756 / 922857	RED RIVER ALLUVIAL AQUIFER / U.S.G.S.	031	04N	01W	OBSERVATION	91 / -D	1 25 / METAL	1 25 / 88-91	0278	D Q W
079	-1151	U S GEOL SURVEY	311612 / 922706	RED RIVER ALLUVIAL AQUIFER / U.S.G.S.	047	03N	01W	TEST HOLE	76- / PA	1.25 / METAL	1.25 / 73-76	0278	D Q W
079	-1151P	U S GEOL SURVEY	311612 / 922706	RED RIVER ALLUVIAL AQUIFER / U.S.G.S.	047	03N	01W	OBSERVATION	PA	3 / PLASTIC			
079	-1152	U S GEOL SURVEY	311555 / 922854	RED RIVER ALLUVIAL AQUIFER / U.S.G.S.	010	03N	01W	OBSERVATION	73 / -D	1.25 / METAL	1.25 / 70-73	0278	D Q W
079	-1153	U S GEOL SURVEY	311717 / 922442	RED RIVER ALLUVIAL AQUIFER / U S G S.	002	04N	01E	OBSERVATION	74 / -W	1.25 / METAL	1.25 / 71-74	0278	D Q W
079	-1154	U S GEOL SURVEY	311730 / 922709	RED RIVER ALLUVIAL AQUIFER / U.S.G.S.	007	04N	01W	TEST HOLE	86 / --	1.25 / METAL	1.25 / 83-86	0378	D Q W
079	-1155	U S GEOL SURVEY	311810 / 922745	RED RIVER ALLUVIAL AQUIFER / U S.G.S.	037	04N	01W	TEST HOLE	73 / PA	1.25 / METAL	1 25 / 70-73	0378	D Q W
079	-1157	U S GEOL SURVEY	311717 / 922733	RED RIVER ALLUVIAL AQUIFER / U.S.G.S.	042	04N	01W	OBSERVATION	93 / PA	1.25 / METAL	1.25 / 90-93	0378	D Q W
079	-1158	U S GEOL SURVEY	311814 / 922814	RED RIVER ALLUVIAL AQUIFER / U.S G.S	035	04N	01W	OBSERVATION	74 / -W	1.25 / METAL	1 25 / 71-74	0378	D Q W
079	-1159	U S GEOL SURVEY	311827 / 922729	RED RIVER ALLUVIAL AQUIFER / U.S.G.S.	039	04N	01W	TEST HOLE	75 / --	1.25 / METAL	1.25 / 72-75	0378	D Q W
079	-1160	U S GEOL SURVEY	311805 / 922659	RED RIVER ALLUVIAL AQUIFER / U.S G S.	007	04N	01W	TEST HOLE	85 / --	1.25 / METAL	1.25 / 82-85	0378	D Q W
079	-1162	U S GEOL SURVEY	311655 / 922543	RED RIVER ALLUVIAL AQUIFER / U.S.G.S.	002	04N	01W	OBSERVATION	74 / -D	1.25 / METAL	1.25 / 71-74	0478	D Q W
079	-1167	U S GEOL SURVEY	311637 / 922740	RED RIVER ALLUVIAL AQUIFER / U.S G S	052	04N	01W	OBSERVATION	90 / -D	1.25 / METAL	1.25 / 87-90	0578	D Q W
079	-1169	U S GEOL SURVEY	311804 / 922646	RED RIVER ALLUVIAL AQUIFER / U.S.G.S.	008	04N	01W	OBSERVATION	66 / -W	1.25 / METAL	/ 63-66	0678	D Q W

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079	-1175	U S GEOL SURVEY	311805 / 922746	RED RIVER ALLUVIAL AQUIFER / U.S G.S	037	04N	01W	OBSERVATION	86 / -A	1.25 / METAL	1.25 / 83-86	0978	D Q W
079	- 42	UNION PAC RR	311650 / 922630	WILLIAMSON CREEK AQUIFER / LAYNE-ARK	054	04N	01W	INDUSTRIAL	402 / PA	16 / STEEL		0532	Q W
079	- 43A	UNION PAC RR / 1	311645 / 922631	WILLIAMSON CREEK AQUIFER / UNKNOWN	054	04N	01W	INDUSTRIAL	386 / PA	8	343-386	0525	D W
079	-5612Z	UNION PAC RR / MW-1	311643 / 922628	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT / RUST ENVIRON-	055	04N	01W	MONITOR	22 / --	4 / PLASTIC	4 / 2-22	0792	D W
079	-5613Z	UNION PAC RR / MW-2	311645 / 922628	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / RUST ENVIRON-	055	04N	01W	MONITOR	12 / --	4 / PLASTIC	4 / 2-12	0792	D W
079	-5614Z	UNION PAC RR / MW-3	311644 / 922627	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT / RUST ENVIRON-	055	04N	01W	MONITOR	12 / --	4 / PLASTIC	4 / 2-12	0792	D W
079	-5615Z	UNION PAC RR / MW-4	311641 / 922627	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT / RUST ENVIRON-	055	04N	01W	MONITOR	12 / --	4 / PLASTIC	4 / 2-12	0792	D W
079	-5616Z	UNION PAC RR / MW-5	311643 / 922629	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT / RUST ENVIRON-	055	04N	01W	MONITOR	12 / --	4 / PLASTIC	4 / 2-12	0792	D W
079	-5617Z	UNION PAC RR / MW-6	311645 / 922626	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / RUST ENVIRON-	055	04N	01W	MONITOR	12 / --	4 / PLASTIC	4 / 2-12	0792	D W
079	-1415	VA HOSPITAL / 2	312055 / 922613	CARNAHAN BAYOU AQUIFER / CONTINENTAL	002	04N	01W	PUBLIC SUPPLY	940 / -T	12X8 / STEEL	8 / 890-940	1095	EDMQBPW
079	-5111Z	VANDERLICK, E	311857 / 922934	WILLIAMSON CREEK AQUIFER / MAXIM'S	025	04N	01W	DOMESTIC	217 / --	2 / PLASTIC	2 / 207-217	0885	D W
079	- 155	WALKER, MORGAN	311525 / 922900	WILLIAMSON CREEK AQUIFER / BLEVINS L P	005	03N	01W	DOMESTIC	502 / --	2		1038	D Q W
079	- 304	WALKER, MORGON	311517 / 922828	WILLIAMSON CREEK AQUIFER / BLEVINS L A	024	03N	01W	DOMESTIC	497 / -A	4	MULTIPLE	1038	DMQ W
079	- 712	WALKERS DAIRY	311517 / 922833	RED RIVER ALLUVIAL AQUIFER / UNKNOWN	043	03N	01W	IRRIGATION	120 / -A	8	8 / 99-120	0155	W
079	- 51	WELLS, TOM	311456 / 922558	WILLIAMSON CREEK AQUIFER / KELLY	040	03N	01W	INDUSTRIAL	444 / 99	3	424-444	0237	Q W

WELLRQ3A - REGISTERED WATER WELLS IN RAPIDES -- SORTED BY OWNER'S NAME
REQ BY ECOLOGY & ENVIRONMENT - ALEXANDRIA PROJ - RAPIDES PARISH
WITHIN A 4.0000 MILE RADIUS OF LATITUDE 311731 LONGITUDE 922641

PARISH CODE	WELL NUMBER	OWNER'S NAME / OWNER'S NO.	LATITUDE / LONGITUDE	GEOLOGIC UNIT / DRILLER	TOWN SECT	SHIP	RANGE	WELL USE	DEPTH / SUB USE	CASING DIAMETER / MATERIAL	SCREEN DIAMETER / INTERVAL	DRILL DATE	AVAIL INFO
079	- 232	WELLS, TOM	311500 / 922602	WILLIAMSON CREEK AQUIFER / BLEVINS L P	040	03N	01W	DOMESTIC	444 / --	2	424-444	0838	Q W
079	-5396Z	WICKS / 1	311745 / 922846	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT / PETRON, INC.	031	04N	01W	MONITOR	14 / --	4 / PLASTIC	4 / 4-14	0689	D W
079	-5397Z	WICKS / 2	311745 / 922846	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT / PETRON, INC.	031	04N	01W	MONITOR	14 / --	4 / PLASTIC	4 / 4-14	0689	D W
079	-5398Z	WICKS / 3	311745 / 922846	RED RIVER ALLUVIAL AQ. SURF CONFINING UNIT / PETRON, INC	031	04N	01W	MONITOR	14 / --	4 / PLASTIC	4 / 4-14	0689	D
079	-5768Z	WILLIS, FRANK / 1	311721 / 922756	RED RIVER ALLUVIAL AQUIFER / CONTINENTAL	035	04N	01W	HEAT PUMP	98 / HS	4 / PLASTIC	4 / 78-98	0395	D W
079	-6027Z	WILLIS, FRANK	311722 / 922757	WILLIAMSON CREEK AQUIFER / CONTINENTAL	035	04N	01W	DOMESTIC	240 / --	4 / PLASTIC	4 / 220-240	0196	D W
079	-6122Z	WILMORE, JOHN / MW-6	311709 / 922702	RED RIVER ALLUVIAL AQ SURF. CONFINING UNIT / JESCO	063	04N	01W	MONITOR	12 / --	4 / PLASTIC	4 / 2-12	0497	D W
079	-6123Z	WILMORE, JOHN / MW-7	311711 / 922702	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / JESCO	063	04N	01W	MONITOR	13 / --	4 / PLASTIC	4 / 3-13	0497	D W
079	-6124Z	WILMORE, JOHN / MW-8	311710 / 922658	RED RIVER ALLUVIAL AQ SURF CONFINING UNIT / JESCO	063	04N	01W	MONITOR	13 / --	4 / PLASTIC	4 / 3-13	0497	D W
079	-6125Z	WILMORE, JOHN / MW-9	311709 / 922659	RED RIVER ALLUVIAL AQ. SURF. CONFINING UNIT / JESCO	063	04N	01W	MONITOR	13 / --	4 / PLASTIC	4 / 3-13	0497	D W
079	- 278	WYNTER, C JR	312001 / 922444	CARNAHAN BAYOU AQUIFER / WYNTER	007	04N	01E	DOMESTIC	204 / --	2		0838	D

NUMBER OF WELLS SELECTED IN PARISH = 513

DOTD'S USE AND SUB-USE COMPUTER CODES FOR WATER WELLS AND HOLES

	WELL USE	SUB-USE	
A	Any Use	- A	Abandoned
		- D	Destroyed
		E X	Excavated Out
		- I	Inactive/Standby
		P A	Plugged
B	Borehole/Pilot Hole	- -	
C	Cathodic	- -	
D	Dewatering	- -	
E	Power Generation	- -	
H	Domestic	- -	
I	Irrigation	- -	
		- Q	Aquaculture
		- S	Stock
L	Heat Pump	H H	Hole
		H S	Supply Well
M	Monitor	- -	
N	Industrial	2 0	Food and kindred products
		2 2	Textile mill products
		2 4	Lumber & wood products
		2 6	Paper & allied products
		2 8	Chemicals & allied products
		2 9	Petroleum refining and related industries
		3 3	Primary metal industries
		9 9	Other
O	Observation	- O	Multiple Purpose
		- Q	Water Quality
		- W	Water Level
P	Public Supply	- C	Commercial
		- M	Therapeutic
		- P	Municipal
		- R	Rural
		- T	Institution/Government
		- Z	Other
R	Recovery	- -	
S	Rig Supply	- -	
T	Test Hole	- -	
W	Piezometer	- -	
Z	Other	- F	Fire Protection
		- R	Reworked
		- U	Unknown
		- Z	Other

2.73

ZB:mql
03/11/94
1.013

Reference 15

RECORD OF COMMUNICATION

CONTRACT/PROGRAM: 68-W6-0013	
TDD#: S06-99-07-007	**PAN#:** 092710SAXX
CONVERSATION WITH: Charles Miller	**DATE:** October 14, 1999
	TIME: 2 05
TITLE: Water Superintendent	
COMPANY: City of Alexandria Water Department	
ADDRESS: 2021 Industrial Park Road Alexandria, LA 71302	[x] **ORIGINATOR PLACED CALL** [ ] **ORIGINATOR RECEIVED CALL**
PHONE:318-441-6215	
SUBJECT: City of Alexandria Water Supply	

NOTES: START Carson placed call to Charles Miller to inquire about Alexandria's water supply. Mr. Miller says the City has 62 wells Surface water is not used for drinking The 62 wells pump 22,000,000 gallons per day During peak time (summer) 27,000,000 gallons per day are pumped and during low usage times 19,000,000 gallons per day are pumped The majority of the wells are completed in the Carnahan Bayou aquifer, which is a subaquifer of the Jasper aquifer system

The City has 25,000 service connections START Carson called again at 2 20 p m to ask if the City serves any rural areas Cindy White informed START that the city does serve rural areas The number of persons per household in Rapides Parish is 2 73 So the number of residents served by the City of Alexandria is 68,250

ACTION:

[ ] **FILE:**	**CONTRACT REPRESENTATIVE:** Jon Rinehart
[ ] **TICKLER FILE:**	**TITLE:**Site Assessment Manager
[ ] **FOLLOW-UP BY:**	**ORIGINATOR:**Maggie Carson
[ ] **DISTRIBUTION:**	**TITLE:** Team Leader

Reference 16

U.S. Department of Commerce
Economics and Statistics Administration
BUREAU OF THE CENSUS

CENSUS '90

1990 CPH-1-20

1990 Census of Population and Housing

Summary Population and Housing Characteristics

Louisiana

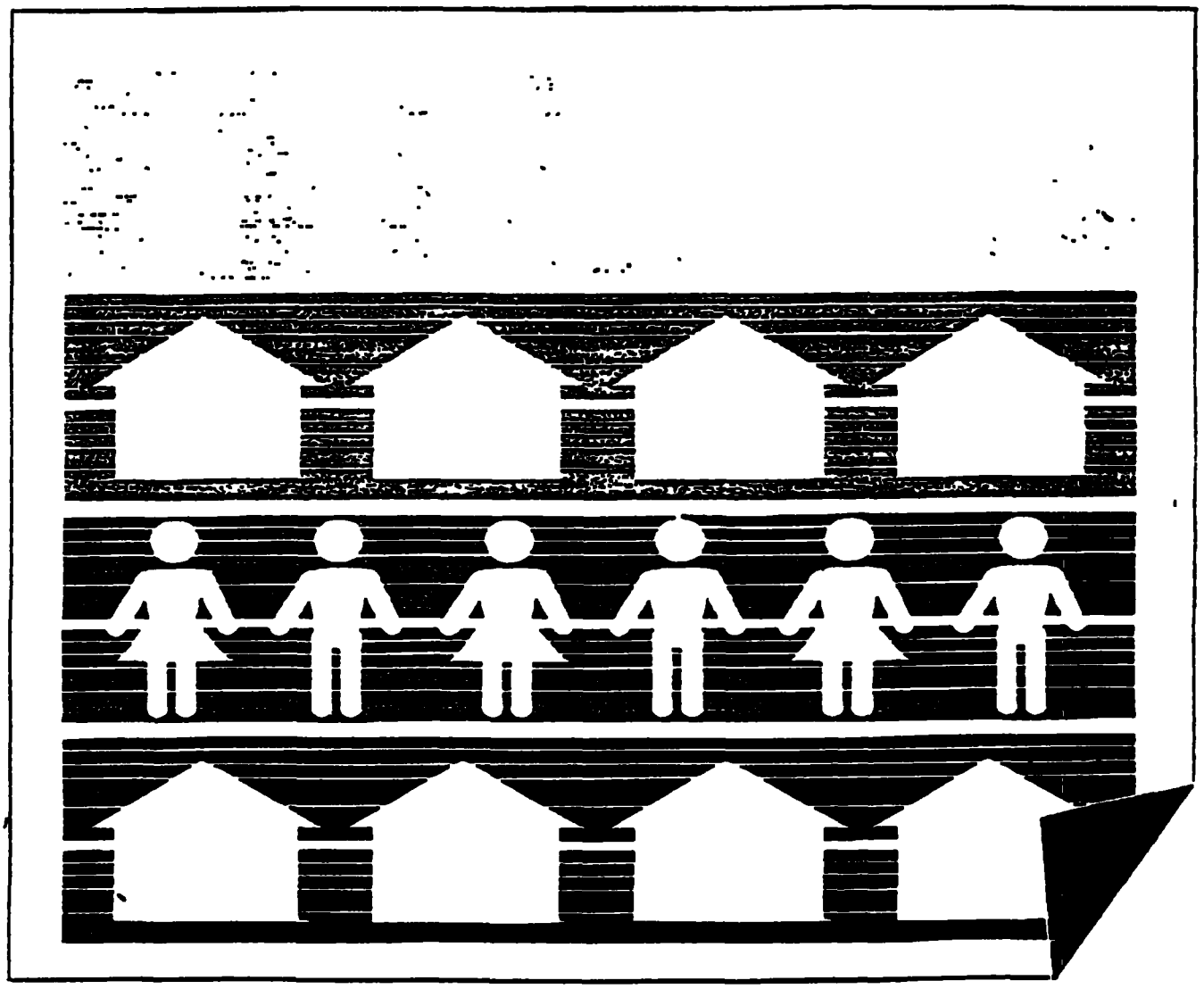

Table 6. Household, Family, and Group Quarters Characteristics: 1990

[For definitions of terms and meanings of symbols, see text]

State Parish Place	Persons in households	All households	Family households: Total	Married-couple family	Female householder, no husband present	Nonfamily households: Total	Householder living alone: Total	65 years and over: Total	65 years and over: Female	Persons per household	Persons per family	Persons in group quarters: Total	Institutionalized persons	Other persons in group quarters
The State	4 187 398	1 499 269	1 089 882	823 282	234 139	409 387	356 860	127 396	106 772	2.74	3.28	112 578	67 270	45 308
PARISH														
Acadia Parish	55 113	19 385	14 877	345	2 796	4 458	4 026	1 962	1 543	2.84	3.33	769	655	114
Allen Parish	19 768	7 080	5 470	4 301	956	1 610	1 506	906	630	2.79	3.25	1 458	1 452	6
Ascension Parish	57 728	17 337	15 590	2 322	2 524	3 747	3 231	1 231	973	2.99	3.38	486	446	40
Assumption Parish	22 595	7 397	5 899	4 596	980	1 498	1 350	645	532	3.05	3.50	158	158	-
Avoyelles Parish	37 332	13 480	10 219	7 891	1 939	3 261	3 028	705	1 323	2.77	3.26	1 837	1 827	10
Beauregard Parish	28 878	10 362	8 024	3 733	1 023	2 338	2 120	954	748	2.79	3.24	1 185	1 167	18
Bienville Parish	15 509	5 852	4 219	3 112	707	1 633	1 535	878	567	2.65	3.22	470	470	-
Bossier Parish	83 962	30 710	23 334	8 487	3 923	7 384	6 502	2 232	1 751	2.73	3.19	2 126	1 044	1 082
Caddo Parish	243 506	93 346	65 122	45 126	17 049	28 126	25 272	10 212	8 164	2.61	3.20	4 747	3 619	1 128
Calcasieu Parish	165 464	60 338	45 085	35 212	7 978	15 293	13 373	5 177	4 086	2.74	3.24	2 680	1 906	774
Caldwell Parish	9 591	3 575	2 709	2 118	473	866	808	466	353	2.68	3.15	219	219	-
Cameron Parish	9 207	3 153	2 540	2 178	250	613	535	212	163	2.92	3.30	53	40	-
Catahoula Parish	10 895	3 927	2 977	2 316	506	950	897	498	373	2.77	3.27	170	170	-
Claiborne Parish	15 998	6 045	4 314	3 179	910	1 731	1 651	932	751	2.64	3.23	1 415	1 415	-
Concordia Parish	20 539	7 341	5 585	3 926	1 355	1 756	1 598	763	580	2.80	3.28	280	274	6
De Soto Parish	25 103	9 129	5 819	4 829	1 666	2 310	2 160	996	910	2.75	3.28	243	243	-
East Baton Rouge Parish	367 921	138 620	95 915	73 112	21 164	42 705	34 570	9 602	7 507	2.65	3.23	12 186	4 458	7 728
East Carroll Parish	9 378	3 129	2 289	317	840	840	761	415	297	3.00	3.60	331	331	-
East Feliciana Parish	16 972	5 589	4 407	3 139	1 052	1 182	996	505	770	3.04	3.52	2 219	2 197	6
Evangeline Parish	32 733	11 793	8 863	6 831	1 576	2 934	2 753	1 399	1 106	2.78	3.29	539	539	-
Franklin Parish	21 887	7 778	5 862	4 354	1 226	1 916	1 761	1 009	775	2.87	3.32	498	498	-
Grant Parish	17 304	6 261	4 810	3 850	768	1 451	1 325	724	535	2.76	3.22	222	222	-
Iberia Parish	67 546	22 847	17 807	13 426	3 564	5 040	4 401	1 944	1 479	2.96	3.42	751	635	116
Iberville Parish	29 289	9 875	7 604	5 244	1 912	2 271	2 040	731	692	2.97	3.46	1 760	1 760	-
Jackson Parish	13 434	5 017	4 765	3 323	763	1 552	1 465	549	561	2.65	3.19	281	281	-
Jefferson Parish	445 239	166 398	118 308	89 731	22 509	48 090	40 448	12 210	9 626	2.68	3.24	3 067	2 785	30
Jefferson Davis Parish	30 327	10 669	8 231	6 575	1 311	2 438	2 235	1 172	927	2.84	3.31	395	395	-
Lafayette Parish	160 618	60 411	42 206	32 631	7 651	18 205	14 844	3 991	3 180	2.66	3.22	4 144	2 063	2 081
Lafourche Parish	84 613	28 835	22 860	18 451	3 401	5 975	4 979	2 032	1 615	2.93	3.33	1 662	576	77
La Salle Parish	13 418	5 086	3 781	3 153	498	1 305	1 202	678	548	2.64	3.13	244	244	-
Lincoln Parish	35 116	13 669	9 019	6 735	1 869	4 650	3 567	1 377	1 077	2.57	3.10	6 639	617	6 01
Livingston Parish	70 095	23 816	19 301	16 177	2 317	4 513	3 918	1 576	1 706	2.94	3.31	431	412	1
Madison Parish	12 195	4 232	3 097	1 023	1 076	1 193	1 082	589	440	2.87	3.47	268	268	-
Morehouse Parish	31 224	10 961	8 321	5 967	1 987	2 640	2 441	1 377	1 077	2.85	3.32	714	656	-
Natchitoches Parish	34 221	12 646	9 095	5 383	2 288	3 549	3 201	1 579	1 206	2.71	3.27	2 468	409	2 0
Orleans Parish	479 906	188 235	118 026	64 839	45 328	70 209	60 673	21 498	16 174	2.55	3.30	17 032	7 780	9 2
Ouachita Parish	137 302	50 518	36 482	26 414	8 576	14 036	12 166	5 008	3 976	2.72	3.27	4 889	2 288	2 4
Plaquemines Parish	24 993	8 213	6 574	5 137	1 019	1 639	1 406	520	361	3.04	3.46	580	431	14
Pointe Coupee Parish	22 287	7 736	5 923	4 425	1 178	1 813	1 660	825	609	2.88	3.38	271	271	-
Rapides Parish	125 538	45 941	34 195	25 774	7 028	11 746	10 555	4 658	3 721	2.73	3.24	6 018	4 711	1 3
Red River Parish	9 215	3 321	2 505	1 826	557	816	755	452	350	2.77	3.29	172	172	-
Richland Parish	20 878	7 077	5 370	3 921	1 190	1 709	1 560	921	728	2.86	3.33	551	537	-
Sabine Parish	22 106	8 361	6 225	4 974	1 007	2 136	2 016	1 129	862	2.64	3.15	540	280	2
St. Bernard Parish	66 037	23 156	18 291	4 413	3 029	4 865	4 220	1 765	1 374	2.85	3.26	572	532	-
St. Charles Parish	42 086	14 333	11 422	9 138	1 802	2 911	2 520	828	635	2.94	3.34	351	314	-
St. Helena Parish	9 780	3 328	2 497	1 831	536	831	763	353	256	2.94	3.49	94	94	-
St. James Parish	20 711	6 432	5 343	3 937	1 171	1 089	1 003	498	385	3.22	3.61	168	161	-
St. John the Baptist Parish	39 816	12 710	10 326	7 892	1 918	2 384	2 060	734	543	3.12	3.56	180	177	-
St. Landry Parish	79 098	27 477	20 993	5 487	4 525	6 484	5 002	2 966	2 305	2.88	3.37	1 223	1 081	1
St. Martin Parish	43 377	14 634	11 560	8 822	2 146	3 044	2 697	1 189	891	2.98	3.41	408	308	-
St. Mary Parish	57 420	19 456	14 887	11 084	2 990	4 569	3 995	1 490	1 119	2.95	3.46	646	349	-
St. Tammany Parish	142 734	50 346	39 559	32 598	5 218	10 787	9 319	3 165	2 387	2.84	3.25	1 754	1 511	-
Tangipahoa Parish	82 482	29 663	21 680	15 721	4 870	7 983	6 858	2 933	2 266	2.79	3.33	3 027	1 588	1 4
Tensas Parish	6 969	2 515	1 831	198	517	684	644	377	298	2.77	3.34	134	73	-
Terrebonne Parish	96 195	31 837	25 250	20 004	4 073	6 587	5 548	2 140	1 660	3.02	3.44	787	645	-
Union Parish	20 381	7 328	5 511	4 649	968	1 717	1 511	870	664	2.71	3.16	309	305	-
Vermilion Parish	49 545	17 782	13 429	10 698	2 197	4 335	3 973	999	1 545	2.79	3.27	510	510	-
Vernon Parish	54 823	19 111	15 323	13 264	1 333	3 788	3 323	1 118	951	2.87	3.25	7 138	326	6 8
Washington Parish	41 736	15 475	11 516	8 456	2 561	3 959	3 607	1 982	1 536	2.70	3.21	1 449	1 445	-
Webster Parish	41 213	15 849	11 556	8 696	2 376	4 293	3 998	2 181	1 715	2.60	3.11	778	598	1
West Baton Rouge Parish	19 229	6 606	5 156	3 755	1 140	1 450	1 263	445	347	2.91	3.35	180	175	-
West Carroll Parish	11 957	4 394	3 303	2 715	466	1 091	1 047	637	523	2.72	3.23	136	136	-
West Feliciana Parish	7 856	2 761	2 300	1 478	491	461	413	215	149	2.87	3.39	5 061	5 087	-
Winn Parish	15 867	5 787	4 265	3 276	808	1 522	1 420	810	594	2.69	3.22	702	702	-
PLACE														
Abbeville city, Vermilion Parish	11 114	4 138	2 892	1 870	900	1 246	1 114	596	477	2.69	3.28	73	73	-
Abita Springs town, St. Tammany Parish	1 296	499	357	282	67	142	128	45	31	2.60	3.10	-	-	-
Addis town, West Baton Rouge Parish	1 222	421	319	271	39	102	94	31	27	2.90	3.45	-	-	-
Albany village, Livingston Parish	645	260	175	139	33	85	75	44	37	2.48	3.07	-	-	-
Alexandria city, Rapides Parish	47 669	18 134	12 511	8 087	3 825	5 623	5 284	2 199	1 780	2.63	3.25	1 519	1 316	-
Amelia CDP, St. Mary Parish	2 487	720	579	466	65	141	126	35	76	3.40	3.88	-	-	-
Amite City town, Tangipahoa Parish	3 819	1 366	984	551	379	382	350	193	166	2.80	3.39	417	417	-
Anacoco village, Vernon Parish	823	301	236	203	25	65	57	20	23	2.73	3.15	-	-	-
Angie village, Washington Parish	233	92	73	56	13	23	9	12	10	2.53	2.96	-	-	-
Arabi CDP, St. Bernard Parish	8 576	3 475	2 525	1 993	406	950	855	417	379	2.47	2.96	711	711	-
Arcadia town, Bienville Parish	2 823	1 042	739	466	235	303	273	173	149	2.71	3.29	256	256	-
Arnaudville town	1 310	508	379	303	63	129	121	66	52	2.58	3.07	134	134	-
St. Landry Parish	1 219	470	353	289	52	117	109	63	47	2.59	3.07	134	134	-
St. Martin Parish	91	38	26	14	11	12	12	3	5	2.39	3.00	-	-	-
Ashland village, Natchitoches Parish	289	115	82	70	8	33	32	22	16	2.51	3.05	-	-	-
Athens village, Claiborne Parish	278	121	78	61	14	43	43	27	23	2.30	2.89	-	-	-
Atlanta village, Winn Parish	118	44	31	22	5	13	12	5	3	2.68	3.26	-	-	-
Avondale CDP, Jefferson Parish	5 813	1 673	1 470	1 173	239	203	179	43	31	3.47	3.76	-	-	-
Baker city, East Baton Rouge Parish	12 938	4 355	3 565	2 792	618	788	676	196	157	2.97	3.32	262	262	-
Baldwin town, St. Mary Parish	2 379	736	600	430	142	136	124	46	70	3.23	3.63	-	-	-
Ball town, Rapides Parish	3 305	1 179	942	772	143	237	212	99	78	2.80	3.19	-	-	-
Barataria CDP, Jefferson Parish	1 160	410	330	270	42	80	72	29	22	2.83	3.21	-	-	-
Basile town, Evangeline Parish	1 726	632	453	342	89	179	163	91	75	2.73	3.31	82	82	-
Baskin village, Franklin Parish	242	88	67	51	9	21	17	7	6	2.76	3.12	-	-	-
Bastrop city, Morehouse Parish	13 485	4 839	3 437	2 084	1 190	1 372	1 278	757	616	2.79	3.41	431	413	-

Reference 17

ASBESTOS ASSESSMENT REPORT
LOUISIANA PACIFIC CORPORATION
ALEXANDRIA, LOUISIANA
ALEXANDRIA SAWMILL

LOUISIANA PACIFIC CORPORATION
ALEXANDRIA SAWMILL
ALEXANDRIA, LOUISIANA

Prepared by

ALTEC Environmental Consultants
P.O. Box 17867
Shreveport, Louisiana 71138-0867

ALTEC
ENVIRONMENTAL CONSULTANTS

INSPECTION LOGS

ALTEC Environmental Consultants, Inc.
P.O. Box 17867, Shreveport, LA 71138-0867

Facility Alexandria, Louisiana Sawmill (Louisiana Pacific Corp.) Building/Room Sawmill Site Date(s) of Original Inspection 6-12-97

Homogeneous sampling areas		Material category	Friability	Assessment category (1-7, X, None)	Recorded locations of material for each assessment category	Recorded results from analysis
ID number	Material description					
697001	Felt Material	TSI Surf. Misc	F NF X		Maintenance Building Parts Storeroom Located on middle aisle shelf	Asbestos Containing Material
697002	Roll Paper	TSI Surf Misc	F NF X		Maintenance Building Parts Storeroom Located on middle aisle shelf	Non Asbestos
697003	Gasket Material	TSI Surf. Misc.	F NF X		Maintenance Building Parts Storeroom Located on middle aisle shelf	Asbestos Containing Material
697004	Cloth Roll	TSI Surf Misc	F NF X		Maintenance Building Parts Storeroom 3 rolls on floor of NW corner of building	Non Asbestos
697005	Gasket Belt (White)	TSI Surf Misc	F NF X		Maintenance Building Parts Storeroom Located on middle aisle shelf.	Asbestos Containing Material
697006	TSI - Steamline	TSI Surf Misc	F NF X		North End of Sawmill located outside the building	Asbestos Containing Material

Information abstracted by Roy W. Dowling Date 6-12-97

Friability: F = friable, NF = nonfriable, X = not applicable (material is non-ACBM)

Assessment category: 1 = Damaged or significantly damaged TSI ACBM, 2 = Damaged friable surfacing ACBM, 3 = Significantly damaged friable surfacing ACBM, 4 = Damaged or significantly damaged friable miscellaneous ACBM, 5 = ACBM with potential for damage, 6 = ACBM with potential for significant damage, 7 = Any remaining friable ACBM or friable suspected ACBM, X = not applicable (material is non-ACBM or nonfriable surfacing or miscellaneous material), None = No assessment category provided in original inspection

ALTEC Environmental Consultants, Inc.
P.O. Box 17867, Shreveport, LA 71138-0867

Facility Alexandria, Louisiana Sawmill (Louisiana Pacific Corp.) Building/Room Sawmill Site Date(s) of Original Inspection 6-12-97

Homogeneous sampling areas		Material category	Friability	Assessment category (1-7, X, None)	Recorded locations of material for each assessment category	Response actions taken/ renovations/other comments
ID number	Material description					
697007	.Pipe Insulation (TSI)	TSI Surf Misc	F NF X		North end of sawmill building on small pipe next to steam line	Non Asbestos
697008	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		12 to 16 " steam line to steam carriages located in sawmill building	**Asbestos Containing Material**
697009	Duct Material (TSI)	TSI Surf Misc	F NF X		Internally lined air conditioning duct in sawmill building bottom floor	Non Asbestos
697010	Pipe Wrap - Cloth Material	TSI Surf Misc	F NF X		North end of sawmill building - Cloth wrap on return lines	Non Asbestos
697011	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		South end of sawmill building on 1" line	Non Asbestos
697012	Fire Hose	TSI Surf Misc	F NF X		South end of sawmill on floor	Non Asbestos

Information abstracted by Roy W. Dowling Date 6-12-97

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Facility Alexandria, Louisiana Sawmill (Louisiana Pacific Corp.) Building/Room Sawmill Site Date(s) of Original Inspection 6-12-97

Homogeneous sampling areas		Material category	Friability	Assessment category (1-7, X, None)	Recorded locations of material for each assessment category	Response actions taken/ renovations/other comments
ID number	Material description					
697013	Pipe Insulation (TSI)	TSI Surf. Misc	F NF X		12" Steam line located on the west side of the sawmill building	**Asbestos Containing Material**
697014	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		12" Steam line with wire located on the west side of the sawmill building	**Asbestos Containing Material**
697015	Pipe Insulation (TSI)	TSI Surf Misc.	F NF X		12" Steam line located on east side of sawmill building	**Asbestos Containing Material**
697016	Pipe Insulation (TSI)	TSI Surf Misc.	F NF X		12" Steam line with wire located on the east side of the sawmill building	**Asbestos Containing Material**
697017	Pipe Insulation (TSI)	TSI Surf. Misc.	F NF X		Located in boxes in middle part of large storage building (Pabco and Manville labeling)	Non Asbestos
697018	Mortar Mix	TSI Surf Misc	F NF X		Middle part of large storage building located on the floor	Non Asbestos

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Facility Alexandria, Louisiana Sawmill (Louisiana Pacific Corp.) Building/Room Sawmill Site Date(s) of Original Inspection 6-12-97

Homogeneous sampling areas		Material category	Friability	Assessment category (1-7, X, None)	Recorded locations of material for each assessment category	Response actions taken/ renovations/other comments
ID number	Material description					
697019	Roofing Material	TSI Surf Misc	F NF X		Debris pile located on south side of power house	Asbestos Containing Material
697020	Ceiling Tile	TSI Surf Misc.	F NF X		Scale house Ceiling	Non Asbestos
697021	TSI	TSI Surf Misc.	F NF X		Located on inside of safe door located in the scale house	Asbestos Containing Material
697022	Gasket Material	TSI Surf. Misc	F NF X		Gasket material located on kiln doors on west side of kiln building	Non Asbestos
697023	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		6" Steam line running on the west side of kiln building	Non Asbestos
697024	Mortar	TSI Surf Misc	F NF X		Mortar joints on cinder blocks in kilns located in the kiln building	Non Asbestos

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Facility Alexandria, Louisiana Sawmill (Louisiana Pacific Corp.) Building/Room Sawmill Site Date(s) of Original Inspection 6-12-97

Homogeneous sampling areas		Material category	Friability	Assessment category (1-7, X, None)	Recorded locations of material for each assessment category	Response actions taken/ renovations/other comments
ID number	Material description					
697025	Mortar	TSI Surf Misc	F NF X		Mortar joints in bricks in the kilns located in the kiln building	**Asbestos Containing Material**
697026	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		North end of brick kilns located in control rooms at top of kilns	**Asbestos Containing Material**
697027	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		Northwest end of brick kilns located in control rooms at top of kilns	Non Asbestos
697028	Mastic	TSI Surf Misc	F NF X		14" Drain line located on ground at north end of planer mill	**Asbestos Containing Material**
697029	Roofing material	TSI Surf Misc	F NF X		Roofing materail from the inspection station building	**Asbestos Containing Material**
697030	Mortar	TSI Surf Misc	F NF X		Located in old kilns taken from the brick inside one of the kilns	**Asbestos Containing Material**

Information abstracted by Roy W. Dowling Date 6-12-97

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Assessment category: 1 = Damaged or significantly damaged TSI ACBM, 2 = Damaged friable surfacing ACBM, 3 = Significantly damaged friable surfacing ACBM, 4 = Damaged or significantly damaged friable miscellaneous ACBM, 5 = ACBM with potential for damage, 6 = ACBM with potential for significant damage, 7 = Any remaining friable ACBM or friable suspected ACBM, X = not applicable (material is non-ACBM or nonfriable surfacing or miscellaneous material), None = No assessment category provided in original inspection

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Facility Alexandria, Louisiana Sawmill (Louisiana Pacific Corp.) Building/Room Sawmill Site Date(s) of Original Inspection 6-12-97

Homogeneous sampling areas		Material category	Friability	Assessment category (1-7, X, None)	Recorded locations of material for each assessment category	Response actions taken/ renovations/other comments
ID number	Material description					
697031	Transite	TSI Surf Misc	F NF X		Old Kiln located where roof has fallen in on west side	**Asbestos Containing Material**
697032	Mortar	TSI Surf Misc.	F NF X		Old kilns located at south end	**Asbestos Containing Material**
697033	Pipe Insulation (TSI)	TSI Surf Misc.	F NF X		North end of old kilns located in control walk	**Asbestos Containing Material**
697034	Pipe Insulation (TSI)	TSI Surf. Misc	F NF X		North end of old kilns located in control walk	**Asbestos Containing Material**
697035	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		Pipe located above old kiln roof	Non Asbestos
697036	Roof material	TSI Surf Misc	F NF X		Old kiln building's roof	**Asbestos Containing Material**

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Facility Alexandria, Louisiana Sawmill (Louisiana Pacific Corp.) Building/Room Sawmill Site Date(s) of Original Inspection 6-12-97

Homogeneous sampling areas		Material category	Friability	Assessment category (1-7, X, None)	Recorded locations of material for each assessment category	Response actions taken/ renovations/other comments
ID number	Material description					
697037	Transite	TSI Surf Misc	F NF X		Old kiln building's control walk	Asbestos Containing Material
697038	Pipe Insulation (TSI)	TSI Surf. Misc	F NF X		Vertical pipe on northwest end of old kiln building located at ground level	Asbestos Containing Material
697039	Pipe Insulation (TSI)	TSI Surf. Misc.	F NF X		Horizontal pipe on northeast end of old kiln building under the control walk	Non Asbestos
697040	Door Insulation	TSI Surf Misc	F NF X		Insulation taken from the door on the south end of the kilns located in the old kiln building	Non Asbestos
697041	Gasket material	TSI Surf. Misc	F NF X		Door gasket material taken from doors on south side of kilns located in the old kiln building	Non Asbestos
697042	Surfacing material	TSI Surf Misc.	F NF X		The surfacing material was located inside a piece of equipment (cutter) located on the south end of old kiln building's shed	Non Asbestos

Information abstracted by Roy W. Dowling Date 6-12-97

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Facility Alexandria, Louisiana Sawmill (Louisiana Pacific Corp.) Building/Room Sawmill Site Date(s) of Original Inspection 6-12-97

Homogeneous sampling areas		Material category	Friability	Assessment category (1-7, X, None)	Recorded locations of material for each assessment category	Response actions taken/ renovations/other comments
ID number	Material description					
697043	Gasket material	TSI Surf Misc	F NF X		Valve laying on ground on south end of old kiln building Pump valve gasket	**Asbestos Containing Material**
697044	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		West end of middle kiln (control walk) located in the kiln building	**Asbestos Containing Material**
697045	Pipe Insulation (TSI)	TSI Surf Misc.	F NF X		East end of middle kiln (control walk) located in the kiln building	**Asbestos Containing Material**
697046	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		West end of east kiln (control walk) located in kiln building	**Asbestos Containing Material**
697047	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		Bags on floor in east kiln control room located in the kiln building	Non Asbestos
697048	Roofing material	TSI Surf Misc	F NF X		East Kiln roof	Non Asbestos

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Facility Alexandria, Louisiana Sawmill (Louisiana Pacific Corp.) Building/Room Sawmill Site Date(s) of Original Inspection 6-12-97

Homogeneous sampling areas		Material category	Friability	Assessment category (1-7, X, None)	Recorded locations of material for each assessment category	Response actions taken/ renovations/other comments
ID number	Material description					
697049	Pipe Insulation (TSI)	TSI Surf Misc.	F NF X		14" Steamline from the sawmill to the powerhouse	Non Asbestos
697050	Pipe Insulation (TSI)	TSI Surf Misc.	F NF X		14" Steamline from the sawmill to the powerhouse	Non Asbestos
697051	Transite	TSI Surf Misc	F NF X		Siding on pump shed located beside cooling tower	**Asbestos Containing Material**
697052	Mastic	TSI Surf. Misc	F NF X		Mastic applied to metal siding on boiler house	**Asbestos Containing Material**
697053	Surfacing material	TSI Surf Misc.	F NF X		North End Flue located at Power Plant	**Asbestos Containing Material**
697054	Surfacing material	TSI Surf Misc	F NF X		North end of flue located near smoke stack	Non Asbestos

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Facility Alexandria, Louisiana Sawmill (Louisiana Pacific Corp.) Building/Room Sawmill Site Date(s) of Original Inspection 6-12-97

Homogeneous sampling areas		Material category	Friability	Assessment category (1-7, X, None)	Recorded locations of material for each assessment category	Response actions taken/ renovations/other comments
ID number	Material description					
697055	Surfacing material	TSI Surf Misc	F NF X		Lower boiler cap end on west side in boiler house	**Asbestos Containing Material**
697056	Pipe Insulation (TSI)	TSI Surf Misc.	F NF X		4" steamline by smokestack located in boiler house	Non Asbestos
697057	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		12" steamline by smokestack located in boiler house	**Asbestos Containing Material**
697058	Surfacing material	TSI Surf. Misc	F NF X		Sample taken off boiler side on the bottom on the west boiler located in the boiler house	**Asbestos Containing Material**
697059	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		Vertical riser on east boiler located in the boiler house	Non Asbestos
697060	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		Horizontal run on east boiler located in the boiler house	**Asbestos Containing Material**

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Facility Alexandria, Louisiana Sawmill (Louisiana Pacific Corp.) Building/Room Sawmill Site Date(s) of Original Inspection 6-12-97

Homogeneous sampling areas		Material category	Friability	Assessment category (1-7, X, None)	Recorded locations of material for each assessment category	Response actions taken/ renovations/other comments
ID number	Material description					
697061	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		Vertical riser on globe valve on north side of power house building	Non Asbestos
697062	Pipe Insulation (TSI)	TSI Surf Misc.	F NF X		Horizontal run on North side of power house building	**Asbestos Containing Material**
697063	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		4" Vertical Riser valve on East side of power house	Non Asbestos
697064	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		8" Vertical riser on east side of power house	**Asbestos Containing Material**
697065	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		Valve by pumps on east side of power house	**Asbestos Containing Material**
697066	Pipe Insulation (TSI)	TSI Surf. Misc	F NF X		Riser by pumps on east side of power house	Non Asbestos

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Facility Alexandria, Louisiana Sawmill (Louisiana Pacific Corp.) Building/Room Sawmill Site Date(s) of Original Inspection 6-12-97

Homogeneous sampling areas		Material category	Friability	Assessment category (1-7, X, None)	Recorded locations of material for each assessment category	Response actions taken/ renovations/other comments
ID number	Material description					
697067	Transite	TSI Surf Misc	F NF X		Outside supervisors office on 2nd floor inside power house	**Asbestos Containing Material**
697068	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		Yellow material 2nd floor of power house on east end of turbine located on a 12" line	**Asbestos Containing Material**
697069	Pipe Insulation (TSI)	TSI Surf Misc.	F NF X		Yellow material 2nd floor of power house on east end of turbine located on a 4" line	**Asbestos Containing Material**
697070	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		Grey material 2nd floor of power house on east end of turbine located on small line	**Asbestos Containing Material**
697071	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		Yellow material 2nd floor of power house on north side of turbine on 8" lines	**Asbestos Containing Material**
697072	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		Long ell west turbine 2nd floor of power house	Non Asbestos

Information abstracted by Roy W. Dowling Date 6-12-97

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Facility Alexandria, Louisiana Sawmill (Louisiana Pacific Corp.) Building/Room Sawmill Site Date(s) of Original Inspection 6-12-97

Homogeneous sampling areas		Material category	Friability	Assessment category (1-7, X, None)	Recorded locations of material for each assessment category	Response actions taken/ renovations/other comments
ID number	Material description					
697073	Pipe Insulation (TSI)	TSI Surf. Misc	F NF X		90 degree elbow on west end turbine located on 2nd floor of power house	Asbestos Containing Material
697074	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		1" line on West turbine located on 2nd floor of house	Asbestos Containing Material
697075	Felt	TSI Surf. Misc.	F NF X		Felt on vertical line on south side of power plant	Asbestos Containing Material
697076	Pipe Insulation (TSI)	TSI Surf. Misc	F NF X		6" overhead line from powerhouse to the kilns	Non Asbestos
697077	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		12" overhead line from the powerhouse to the kilns	Asbestos Containing Material
697078	Roofing	TSI Surf. Misc.	F NF X		Top of Power house	Asbestos Containing Material

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Facility Alexandria, Louisiana Sawmill (Louisiana Pacific Corp.) Building/Room Sawmill Site Date(s) of Original Inspection 6-12-97

Homogeneous sampling areas		Material category	Friability	Assessment category (1-7, X, None)	Recorded locations of material for each assessment category	Response actions taken/ renovations/other comments
ID number	Material description					
697079	Pipe Insulation (TSI)	TSI Surf. Misc	F NF X		12" line going from the power house to the kilns	Asbestos Containing Material
697080	Mastic	TSI Surf Misc	F NF X		Mastic applied to metal siding on boiler house	Asbestos Containing Material
697081	Pipe Insulation (TSI)	TSI Surf Misc	F NF X		6" line from power plant to kilns	Non Asbestos
697082	Surfacing material	TSI Surf. Misc	F NF X		Material located inside the Ingersoll-Rand pump located outside of power house	Non Asbestos

Information abstracted by Roy W. Dowling Date 6-12-97

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BULK ASBESTOS ANALYSIS REPORT

ALTEC
ENVIRONMENTAL CONSULTANTS, INC.

BULK ASBESTOS ANALYSIS REPORT

CLIENT: Louisiana-Pacific Corporation
LOCATION: Alexandria Sawmill
PROJECT: Asbestos Assessment
DATE COLLECTED: 06-12-97
DATE ANALYZED: 06-12-97

SAMPLE IDENTIFICATION	RESULTS
697001	10-12% chrysotile
697002	ND - cellulose, minerals
697003	40-45% chrysotile
697004	ND - fiberglass, minerals
697005	65-70% chrysotile
697006	10-12% amosite, 8-10% chrysotile
697007	ND - fiberglass, minerals, cellulose
697008	10-12% amosite, 8-10% chrysotile
697009	ND - fiberglass, minerals, cellulose
697010	ND - cellulose, minerals

Analysis Procedure: EPA-600/M4-82-020

Note: ND = None Detected

ALTEC participates in the American Industrial Hygiene Association (AIHA) Bulk Asbestos Proficiency Testing Program.

Analyzed by:

Bryan E. Artley
Microscopist

Approved by:

William L. Wilt
Manager, Optical Microscopy

ALTEC Project No. 06026

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ALTEC
ENVIRONMENTAL CONSULTANTS, INC.

BULK ASBESTOS ANALYSIS REPORT

CLIENT: Louisiana-Pacific Corporation
LOCATION: Alexandria Sawmill
PROJECT: Asbestos Assessment
DATE COLLECTED: 06-12-97
DATE ANALYZED: 06-12-97

SAMPLE IDENTIFICATION	RESULTS
697011	ND - fiberglass, minerals, cellulose
697012	ND - minerals, cellulose, fiberglass
697013	12-15% amosite, 6-8% chrysotile
697014	12-15% amosite, 6-8% chrysotile
697015	12-15% amosite, 6-8% chrysotile
697016	5-8% chrysotile
697017	ND - minerals, cellulose
697018	ND - minerals
697019	7-9% chrysotile
697020	ND - cellulose, minerals

Analysis Procedure: EPA-600/M4-82-020

Note: ND = None Detected

ALTEC participates in the American Industrial Hygiene Association (AIHA) Bulk Asbestos Proficiency Testing Program.

Analyzed by:

Bryan E. Artley
Microscopist

Approved by:

William L. Wilt
Manager, Optical Microscopy

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BULK ASBESTOS ANALYSIS REPORT

CLIENT: Louisiana-Pacific Corporation
LOCATION: Alexandria Sawmill
PROJECT: Asbestos Assessment
DATE COLLECTED: 06-12-97
DATE ANALYZED: 06-12-97

SAMPLE IDENTIFICATION		RESULTS
697021		40-45% chrysotile
697022		ND - cellulose, minerals
697023		ND - minerals, cellulose
697024		ND - minerals
697025	Mortar/Brick Black Mastic/Tar	ND - minerals 4-6% chrysotile
697026		15-18% chrysotile; 10-12% amosite
697027		ND - minerals, cellulose
697028		5-8% chrysotile
697029		18-20% chrysotile

Analysis Procedure: EPA-600/M4-82-020

Note: ND = None Detected

ALTEC participates in the American Industrial Hygiene Association (AIHA) Bulk Asbestos Proficiency Testing Program.

Analyzed by:

Bryan E. Artley
Microscopist

Approved by:

William L. Wilt
Manager, Optical Microscopy

ALTEC Project No. 06026

9300 Mansfield Road, Suite 204 • PO Box 17867 • Shreveport, LA 71138-0867 • Bus (318) 687-3771 • Fax (318) 687-9923

ALTEC
ENVIRONMENTAL CONSULTANTS, INC.

BULK ASBESTOS ANALYSIS REPORT

CLIENT:	Louisiana-Pacific Corporation
LOCATION:	Alexandria Sawmill
PROJECT:	Asbestos Assessment
DATE COLLECTED:	06-12-97
DATE ANALYZED:	06-12-97

SAMPLE IDENTIFICATION		RESULTS
697030	Mortar/Brick Black Tar/Mastic	ND - minerals 3-5% chrysotile
697031		40-45% chrysotile
697032	Mortar Black Patch Material	ND - minerals 5-8% chrysotile
697033		10-12% amosite, 8-10% chrysotile
697034		30-32% chrysotile
697035		ND - minerals, synthetic
697036		5-7% chrysotile
697037		30-35% chrysotile
697038		28-30% amosite, 5-8% chrysotile

Analysis Procedure: EPA-600/M4-82-020

Note: ND = None Detected

ALTEC participates in the American Industrial Hygiene Association (AIHA) Bulk Asbestos Proficiency Testing Program.

Analyzed by:

Bryan E. Artley
Microscopist

Approved by:

William L. Wilt
Manager, Optical Microscopy

ALTEC Project No. 06026

9300 Mansfield Road, Suite 204 • PO Box 17867 • Shreveport, LA 71138-0867 • Bus (318) 687-3771 • Fax (318) 687-9923

ALTEC
ENVIRONMENTAL CONSULTANTS, INC.

BULK ASBESTOS ANALYSIS REPORT

CLIENT: Louisiana-Pacific Corporation
LOCATION: Alexandria Sawmill
PROJECT: Asbestos Assessment
DATE COLLECTED: 06-12-97
DATE ANALYZED: 06-12-97

SAMPLE IDENTIFICATION	RESULTS
697039	ND - minerals, cellulose, synthetic
697040	ND - fiberglass, minerals
697041	ND - minerals, cellulose
697042	ND - minerals, cellulose
697043	60-65% chrysotile
697044	30-33% chrysotile
697045	28-30% amosite, 8-10% chrysotile
697046	15-18% amosite, 12-15% chrysotile
697047	ND - fiberglass, minerals, cellulose
697048	ND - minerals, cellulose, fiberglass

Analysis Procedure: EPA-600/M4-82-020

Note: ND = None Detected

ALTEC participates in the American Industrial Hygiene Association (AIHA) Bulk Asbestos Proficiency Testing Program.

Analyzed by:

Bryan E. Artley
Microscopist

Approved by:

William L. Wilt
Manager, Optical Microscopy

ALTEC Project No. 06026

9300 Mansfield Road, Suite 204 • PO Box 17867 • Shreveport, LA 71138-0867 • Bus (318) 687-3771 • Fax (318) 687-9923

ALTEC
ENVIRONMENTAL CONSULTANTS, INC.

BULK ASBESTOS ANALYSIS REPORT

CLIENT:	Louisiana-Pacific Corporation
LOCATION:	Alexandria Sawmill
PROJECT:	Asbestos Assessment
DATE COLLECTED:	06-12-97
DATE ANALYZED:	06-12-97

SAMPLE IDENTIFICATION		RESULTS
697049		ND - minerals, cellulose
697050		ND - minerals, cellulose
697051		35-40% chrysotile
697052		12-15% chrysotile
697053	Silver/Black Material	5-8% chrysotile
	Grey Insulation	ND - fiberglass, minerals, cellulose
697054		ND - fiberglass, minerals, cellulose
697055	Black Material	7-9% chrysotile
	Light Brown Insulation	ND - fiberglass, minerals, cellulose
697056		ND - minerals, cellulose, synthetic
697057	Black/White Material	8-10% chrysotile
	Tan Material	ND - minerals, cellulose

Analysis Procedure: EPA-600/M4-82-020

Note: ND = None Detected

ALTEC participates in the American Industrial Hygiene Association (AIHA) Bulk Asbestos Proficiency Testing Program.

Analyzed by:

Bryan E. Artley
Microscopist

Approved by:

William L. Wilt
Manager, Optical Microscopy

ALTEC Project No. 06026

9300 Mansfield Road, Suite 204 • PO Box 17867 • Shreveport, LA 71138-0867 • Bus (318) 687-3771 • Fax (318) 687-9923

ALTEC
ENVIRONMENTAL CONSULTANTS, INC.

BULK ASBESTOS ANALYSIS REPORT

CLIENT:	Louisiana-Pacific Corporation
LOCATION:	Alexandria Sawmill
PROJECT:	Asbestos Assessment
DATE COLLECTED:	06-12-97
DATE ANALYZED:	06-12-97

SAMPLE IDENTIFICATION		RESULTS
697058	Black Material	10-12% chrysotile
	Yellow Insulation	ND - fiberglass, minerals
697059		ND - minerals, cellulose, synthetic
697060		25-30% chrysotile
697061		ND - minerals, cellulose
697062	Black Material	6-8% chrysotile
	Tan Insulation	ND - minerals, cellulose
697063		ND - minerals, cellulose, synthetic
697064		30-35% chrysotile
697065	Black Material	4-6% chrysotile
	Tan Insulation	ND - minerals, cellulose
697066		ND - minerals, cellulose, synthetic

Analysis Procedure: EPA-600/M4-82-020

Note: ND = None Detected

ALTEC participates in the American Industrial Hygiene Association (AIHA) Bulk Asbestos Proficiency Testing Program.

Analyzed by:

Bryan E. Artley
Microscopist

Approved by:

William L. Wilt
Manager, Optical Microscopy

ALTEC Project No. 06026

9300 Mansfield Road, Suite 204 • PO Box 17867 • Shreveport, LA 71138-0867 • Bus (318) 687-3771 • Fax (318) 687-9923

ALTEC
ENVIRONMENTAL CONSULTANTS, INC.

BULK ASBESTOS ANALYSIS REPORT

CLIENT:	Louisiana-Pacific Corporation
LOCATION:	Alexandria Sawmill
PROJECT:	Asbestos Assessment
DATE COLLECTED:	06-12-97
DATE ANALYZED:	06-12-97

SAMPLE IDENTIFICATION		RESULTS
697067		30-35% chrysotile
697068		35-40% chrysotile
697069		35-40% chrysotile
697070	Black Material Off-White Insulation	12-15% chrysotile ND - minerals, fiberglass
697071		35-40% chrysotile
697072		ND - minerals, cellulose
697073		30-35% chrysotile
697074		12-15% amosite
697075		6-8% chrysotile
697076		ND - minerals, cellulose

Analysis Procedure: EPA-600/M4-82-020

Note: ND = None Detected

ALTEC participates in the American Industrial Hygiene Association (AIHA) Bulk Asbestos Proficiency Testing Program.

Analyzed by:

Bryan E. Artley
Microscopist

Approved by:

William L. Wilt
Manager, Optical Microscopy

ALTEC Project No. 06026

9300 Mansfield Road, Suite 204 • PO Box 17867 • Shreveport, LA 71138-0867 • Bus (318) 687-3771 • Fax (318) 687-9923

ALTEC
ENVIRONMENTAL CONSULTANTS, INC.

BULK ASBESTOS ANALYSIS REPORT

CLIENT:	Louisiana-Pacific Corporation
LOCATION:	Alexandria Sawmill
PROJECT:	Asbestos Assessment
DATE COLLECTED:	06-12-97
DATE ANALYZED:	06-12-97

SAMPLE IDENTIFICATION		RESULTS
697077	Black Material	7-9% chrysotile
	White Insulation	ND - minerals, cellulose, synthetic
697078	Black/Silver Outer Layer	5-8% chrysotile
	Black Tar/Mastic	ND - minerals, cellulose
697079	Black Material	7-9% chrysotile
	Tan Insulation	ND - minerals, cellulose
697080		10-12% chrysotile
697081		ND - minerals, cellulose
697082		ND - minerals, cellulose

Analysis Procedure: EPA-600/M4-82-020

Note: ND = None Detected

ALTEC participates in the American Industrial Hygiene Association (AIHA) Bulk Asbestos Proficiency Testing Program.

Analyzed by:

Bryan E. Artley
Microscopist

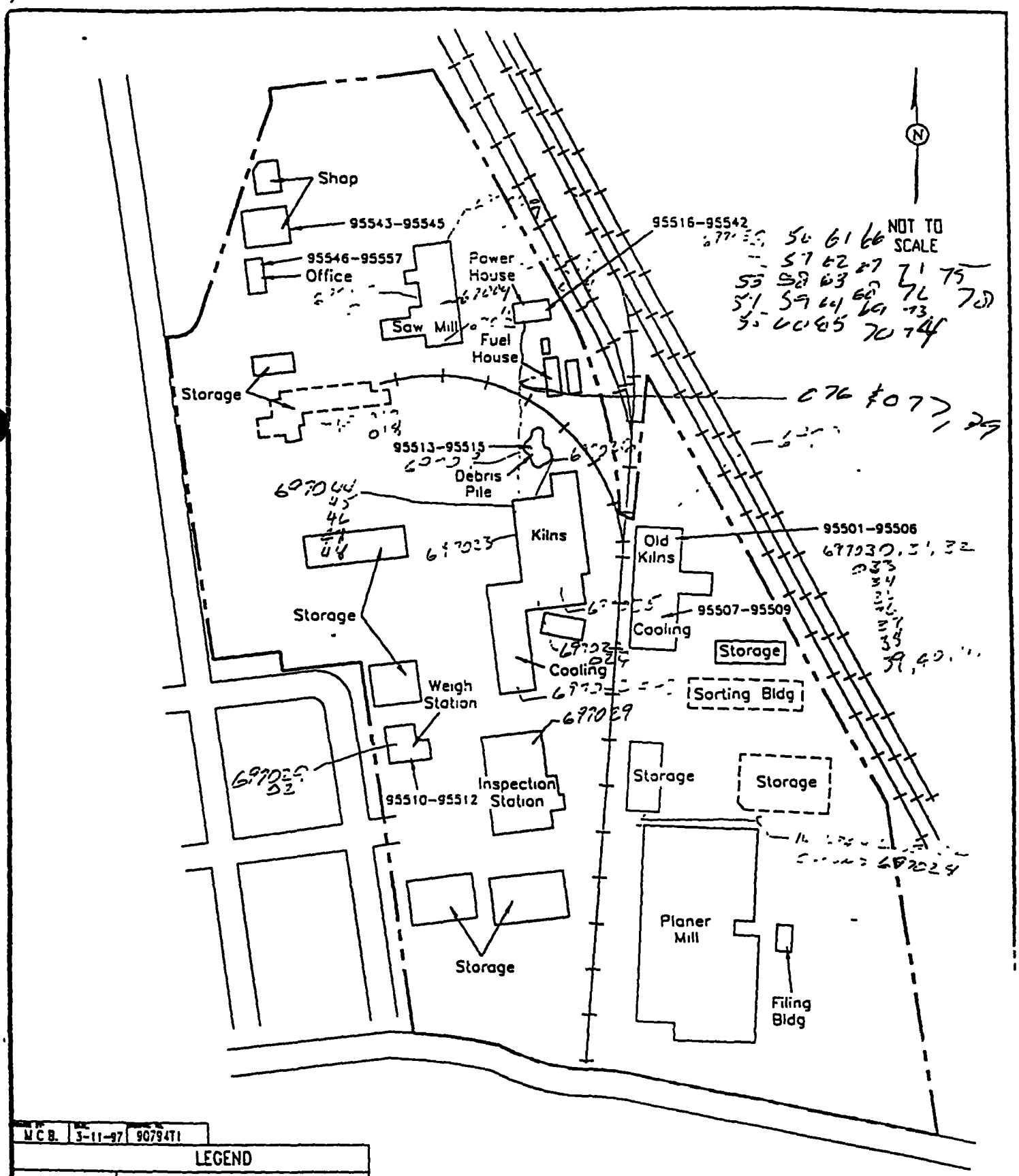
Approved by:

William L. Wilt
Manager, Optical Microscopy

ALTEC Project No. 06026

9300 Mansfield Road, Suite 204 • PO Box 17867 • Shreveport, LA 71138-0867 • Bus (318) 687-3771 • Fax: (318) 687-9923

SAMPLE LOCATIONS



M.C.B.	3-11-97	90794T1

LEGEND	
95579-95589	BULK SAMPLE NUMBER

Louisiana-Pacific Alexandria Mill
1028 Fenner
Alexandria, Louisiana
ATC Project No. : 73-97-90794 7302 Task 1
March 1997

ATC ASSOCIATES INC.
ENVIRONMENTAL, GEOTECHNICAL AND MATERIALS PROFESSIONALS

Figure 2
SITE VICINITY/LOCATION MAP

Reference 18

ALTEC
ENVIRONMENTAL CONSULTANTS, INC.

November 2, 1999

Mr. Jason T. Sanders, Project Manager
Environmental Affairs
Louisiana Pacific Corporation
P.O. Box 3107
Conroe, Texas 77305

Re: Alexandria Sawmill Asbestos Abatement Summary

Dear Mr. Sanders:

The chronological events for the abatement at the Alexandria Sawmill site in Alexandria, Louisiana are as follows:

- Assessment completed on June 12, 1997. (A copy is enclosed)
- First phase of abatement was completed on July 5, 1997 in the old planar mill area. (A copy of the Air Monitoring Report is enclosed)
- The rest of the abatement with the exception of the kilns was completed by January, 1998. (A copy of the Phase I Air Monitoring Report is enclosed)
- The kilns were dismantled and diposed of by April, 1998. (A copy of the Phase II Air Monitoring Report is enclosed)

All materials were removed prior to allowing the demolition of buildings or removal of any equipment. All asbestos-containing waste was disposed of at the Mundy Landfill located in Jena, Louisiana. This included all friable and non-friable material removed from the site. I have attached the ADVFs that were provided by J. Graves for the abatement.

If you have any questions, please contact me at (318) 687-3771.

Sincerely,

Roy W. Dowling

Roy W. Dowling, PhD
Environmental Engineer

9300 Mansfield Road, Suite 204 • PO Box 17867 • Shreveport, LA 71138-0867 • Bus (318) 687-3771 • Fax (318) 687-9923

A-7263

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
P.O. Box 82135
Baton Rouge, Louisiana 70884-2135

ADVF NO. 89628 00
PRI:LOW
FACILITY CODE
2360 85925 006

ASBESTOS DISPOSAL VERIFICATION FORM

1) PROJECT LOCATION & STREET ADDRESS - ZIP

KILN
1028 FENNER STREET
ALEXANDRIA - LA - 71301

2) PROJECT PHONE ( )

3) ISSUE DATE

03/16/98

4) EXPIRATION DATE

06/16/98

5) CONTRACTOR'S NAME & MAILING ADDRESS - ZIP

J. GRAVES INSULATION CO., INC.
801 WEST 62nd STREET
SHREVEPORT - LA - 71148

6) CONTRACTOR'S PHONE (318) 861 3526

7) PROJECT START DATE

03/30/98

PROJECT COMPLETE DATE

04/30/98

9) OWNER'S NAME AND MAILING ADDRESS - ZIP

LOUISIANA PACIFIC CO
P.O. BOX 3107
CONROE - TX - 77305

10) OWNER PHONE (409) 756 0511

11) ESTIMATED ACM QUANTITY

150 FT8000 SQ FT0 CU FT

12) DESIGNATED DISPOSAL SITE

DESOTO PAR POL-MUNDY

13) PRINTED/TYPED NAME
THOMAS F. AIRHART, SR.

14) SIGNATURE

OWNER/OPERATOR
15) WASTE TRANSPORTER

16) QUANTITY SHIPPED
1. [illegible]

17) DATE PROJECT COMPLETED
[illegible]

18) DISPOSAL SITE

Mundy Landfill

19) DATE SHIPPED

SHIPPING CLASSIFICATION
Asbestos, Class 9, NA2212,111
RQ = ' lb (.454 Kg)

20) PRINTED/TYPED NAME
Robert Tarnage

21) SIGNATURE
Robert Tarnage

TRANSPORTER
22) DATE RECEIVED
4/17/98

23) DATE DELIVERED
4/17/98

24) PRINTED/TYPED NAME
KENNY WILLIAMS

25) SIGNATURE

LANDFILL
26) QUANTITY RECEIVED
[illegible]

27) DATE BURIED
[illegible]

28) PRINTED/TYPED NAME
Sherman Vaughland

29) SIGNATURE
[illegible]

30) SPECIAL CONDITIONS OR COMMENTS:

[illegible] WHITE [illegible] GREEN OWNER; YELLOW-LANDFILL [illegible] GOLD OWNER

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
P.O. Box 82135
Baton Rouge, Louisiana 70884-2135

ADVF NO. 98[illegible]0 00
PRI:LOW
FACILITY CODE
2360 83925 004

ASBESTOS DISPOSAL VERIFICATION FORM

1) PROJECT LOCATION & STREET ADDRESS - ZIP

ALEXANDRIA SAWMILL
1028 FENNER STREET
ALEXANDRIA - LA - 71301

A-7263

2) PROJECT PHONE (318) 448 4108

3) CONTRACTOR'S NAME & MAILING ADDRESS - ZIP

J. GRAVES INSULATION CO., INC.
801 WEST 62nd STREET
SHREVEPORT - LA - 71148

4) CONTRACTOR'S PHONE (318) 861 3526

5) OWNER'S NAME AND MAILING ADDRESS - ZIP

LOUISIANA PACIFIC CO
P.O. BOX 3107
CONROE - TX - 77305

6) OWNER PHONE (409) 756 0511

7) ISSUE DATE

11/10/97

8) EXPIRATION DATE

02/10/98

9) PROJECT START DATE

11/20/97

PROJECT COMPLETE

01/31/98

11) ESTIMATED ACM

1500 FT2000 SQ FT CU FT

12) DESIGNATED DISPOSAL SITE

DESOTO PAR SOL-MUNDY

13) PRINTED/TYPED NAME
THOMAS F. AIRHART, SR.

14) SIGNATURE

15) PR/OPERATOR
16) WASTE TRANSPORTER

17) DATE PROJECT COMPLETED
1-23-98

18) DISPOSAL SITE

SHIPPING CLASSIFICATION
Asbestos, Class 9, NA2212,111
PG = 1 lb (.454 Kg)

19) DATE SHIPPED
Robert Turnage 12-23-97

20) PRINTED/TYPED NAME

21) SIGNATURE

22) DATE RECEIVED
1-29-98

23) DATE DELIVERED
1-29-98

24) PRINTED/TYPED NAME
Charles Whitten

25) SIGNATURE
Charles Whitten

26) DATE RECEIVED
15 wd

27) DATE SURVEYED
12/98

28) PRINTED/TYPED NAME

29) SIGNATURE

30) CONDITIONS OR COMMENTS:

recycled paper

A-7270

OF LOUISIANA
MENT OF ENVIRONMENTAL QUALITY
UALITY DIVISION
BOX 82135
Rouge, Louisiana 70884-2135

ADVF NO. 89082
PRI:LOW
FACILITY CODE
1680 85995 004

ASBESTOS DISPOSAL VERIFICATION FORM

PROJECT LOCATION & STREET ADDRESS - ZIP SIPE HIGHWAY 125 NORTH URANIA - LA 71480 PROJECT PHONE (318) 495 3151	3) ISSUE DATE 12/17/97 4) EXPIRATION DATE 03/17/97
CONTRACTOR'S NAME & MAILING ADDRESS - ZIP . GRAVES INSULATION CO., INC. [illegible] STREET SHREVEPORT : LA - 71148 CONTRACTOR'S PHONE (318) 861 3526	7) PROJECT START DATE 12/13/97 PROJECT COMPLETE DATE 12/28/97
OWNER'S NAME AND MAILING ADDRESS - ZIP LA. PACIFIC CORP. HIGHWAY 125 NORTH URANIA - LA - 71480 OWNER PHONE (318) 495 3151	11) ESTIMATED ACM QUANTITY 560 FTO SQ FTO CU FT 12) DESIGNATED DISPOSAL SITE WASTE MGMT-MAGNOLIA
PRINTED/TYPED NAME AS F. ATKHART, SR.	14) SIGNATURE

P/OPERATOR WASTE TRANSPORTER	16) QUANTITY SHIPPED 1. 1 yards	17) DATE PROJECT COMPLETED 12-25-97
DISPOSAL SITE [signature] DATE SHIPPED	SHIPPING CLASSIFICATION Asbestos, Class 9, NA2212,111 RQ = 1 lb (.454 Kg)	
PRINTED/TYPED NAME [illegible] Vern Bryant Artley	21) SIGNATURE [signature] Vern Bryant [illegible]	
EXPORTER DATE RECEIVED 12/30/97 PRINTED/TYPED NAME	23) DATE DELIVERED 12/30/97 25) SIGNATURE [signature]	
QUANTITY RECEIVED 6 yds PRINTED/TYPED NAME [illegible]	27) DATE BURIED 12/30/97 29) SIGNATURE [signature]	

LEGAL CONDITIONS OR COMMENTS:

DeSoto PPJ Mundy Landfill 318 872 2541 p.5

A-7166

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
P.O. Box 82135
Baton Rouge, Louisiana 70884-2135

ADVF NO. 98118 00
PRI:LOW
FACILITY CODE
2360 85925 00J

ASBESTOS DISPOSAL VERIFICATION FORM

PROJECT LOCATION & STREET ADDRESS - ZIP ALEXANDRIA SAWMILL 1028 FENNER STREET ALEXANDRIA - LA - 71301 PROJECT PHONE (318) 440 4100	3) ISSUE DATE 07/21/97 4) EXPIRATION DATE 10/21/97
CONTRACTOR'S NAME & MAILING ADDRESS - ZIP J. GRAVES INSULATION CO., INC. 801 WEST 62nd STREET SHREVEPORT - LA - 71148 CONTRACTOR'S PHONE (318) 861 3526	7) PROJECT START DATE 07/29/97 PROJECT COMPLETE DATE 07/29/97
OWNER'S NAME AND MAILING ADDRESS - ZIP LOUISIANA PACIFIC CO P.O. BOX 3107 CONROE - TX - 77305 OWNER PHONE (318) 448 4108	11) ESTIMATED ACM QUANTITY 40 FTO 80 FTO CU FT 12) DESIGNATED DISPOSAL SITE DESOTO PAR POL-MUNDY
PRINTED/TYPED NAME THOMAS F. AIRHART, SR.	14) SIGNATURE

****

OWNER/OPERATOR WASTE TRANSPORTER DISPOSAL SITE Jy Landfill	16) QUANTITY SHIPPED 1. 3yd	17) DATE PROJECT COMPLETED 7-29-97
DATE SHIPPED 7/29/97	SHIPPING CLASSIFICATION Asbestos, Class 9, NA2212, III RQ = 1 lb (.454 KG)	
PRINTED/TYPED NAME Robert Turnage	21) SIGNATURE	

****

TRANSPORTER DATE RECEIVED 7-29-97	23) DATE DELIVERED 7/29/97
PRINTED/TYPED NAME Curtis L Dunn Jr	25) SIGNATURE

****

QUANTITY RECEIVED	27) DATE BURIED 7/29/97
PRINTED/TYPED NAME	29) SIGNATURE

****

TOTAL CONDITIONS OR COMMENTS:

recycled paper

...E OF LOUISIANA
...RTMENT OF ENVIRONMENTAL QUALITY
...QUALITY DIVISION
Box 82135
...on Rouge, Louisiana 70884-2135

ADVF NO. 79885 00
PRI:LOW
FACILITY CODE
2360 85925 002

ASBESTOS DISPOSAL VERIFICATION FORM

PROJECT LOCATION & STREET ADDRESS - ZIP ALEXANDRIA SAWMILL 1028 FENNER STREET ALEXANDRIA - LA - 71301 PROJECT PHONE (318) 448 4108	3) ISSUE DATE 06/03/97 4) EXPIRATION DATE 09/03/97
CONTRACTOR'S NAME & MAILING ADDRESS - ZIP J. GRAVES INSULATION CO., INC. 801 WEST 62nd STREET SHREVEPORT - LA - 71148 CONTRACTOR'S PHONE (318) 861 3526	7) PROJECT START DATE 06/16/97 PROJECT COMPLETE DATE 07/04/97
OWNER'S NAME AND MAILING ADDRESS - ZIP LOUISIANA PACIFIC CO P.O. BOX 3107 CONROE - TX - 77305 OWNER PHONE (409) 756 0511	11) ESTIMATED ACM QUANTITY 2000 FT 5000 SQ FT 0 CU FT 12) DESIGNATED DISPOSAL SITE DESOTO PAR POL-MUNDY
PRINTED/TYPED NAME ...MAS F. AIRHART, SR.	14) SIGNATURE

****

...R/OPERATOR WASTE TRANSPORTER	16) QUANTITY SHIPPED 1. 35 yd	17) DATE PROJECT COMPLETED 7-3-97
DISPOSAL SITE [signature]	SHIPPING CLASSIFICATION Asbestos, Class 9, NA2212,111 RQ = 1 lb (.454 Kg)	
DATE SHIPPED 7/9/97		
PRINTED/TYPED NAME Robert Turnage	21) SIGNATURE [signature]	

****

...NSPORTER DATE RECEIVED 7-9-97	23) DATE DELIVERED 7-9-97
PRINTED/TYPED NAME Charles Whitten	25) SIGNATURE [signature]

****

...TEL QUANTITY RECEIVED 35 cyds	27) DATE RECEIVED 7/9/97
PRINTED/TYPED NAME [illegible]	29) SIGNATURE [signature]

****

SPECIAL CONDITIONS OR COMMENTS:

A-7263

TE OF LOUISIANA
ARTMENT OF ENVIRONMENTAL QUALITY
QUALITY DIVISION
. Box 82135
on Rouge, Louisiana 70884-2135

ADVF NO. 89628 00
PRI:LOW
FACILITY CODE
2360 85925 006

ASBESTOS DISPOSAL VERIFICATION FORM

PROJECT LOCATION & STREET ADDRESS - ZIP KILN 1028 FENNER STREET ALEXANDRIA - LA - 71301 PROJECT PHONE ( )	3) ISSUE DATE 03/16/98 4) EXPIRATION DATE 06/16/98
CONTRACTOR'S NAME & MAILING ADDRESS - ZIP J. GRAVES INSULATION CO., INC. 901 WEST 62nd STREET SHREVEPORT - LA - 71148 CONTRACTOR'S PHONE (318) 861 3526	7) PROJECT START DATE 03/30/98 PROJECT COMPLETE DATE 04/30/98
OWNER'S NAME AND MAILING ADDRESS - ZIP LOUISIANA PACIFIC CO P.O. BOX 3107 ONROE - TX - 77305 OWNER PHONE (409) 756 0511	11) ESTIMATED ACM QUANTITY 150 FT8000 SQ FT0 CU FT 12) DESIGNATED DISPOSAL SITE DESOTO PAR POL-MUNDY
PRINTED/TYPED NAME MAS F. AIRHART, SR.	14) SIGNATURE

R/OPERATOR WASTE TRANSPORTER	16) QUANTITY SHIPPED 1. 3 Cu yds	17) DATE PROJECT COMPLETED 4-17-98
DISPOSAL SITE Mundy Landfill WASTE SHIPPED	SHIPPING CLASSIFICATION Asbestos, Class 9, NA2212,111 RQ = 1 lb (.454 Kg)	
PRINTED/TYPED NAME Robert Turnage	21) SIGNATURE Robert Turnage	
SPORTER DATE RECEIVED 4/17/98	23) DATE DELIVERED 4/17/98	
PRINTED/TYPED NAME Kenny Williams	25) SIGNATURE	
TITLE QUANTITY RECEIVED Cu yds	27) DATE BURIED 4/17/98	
PRINTED/TYPED NAME [illegible]	29) SIGNATURE Sherman [illegible]	

SPECIAL CONDITIONS OR COMMENTS:

recycled paper
ecology and environment

...E OF LOUISIANA
...ARTMENT OF ENVIRONMENTAL QUALITY
...QUALITY DIVISION
...Box 82135
...n Rouge, Louisiana 70884-2135

ADVF NO. 98950 00
PRI:LOW
FACILITY CODE
2360 85925 004

ASBESTOS DISPOSAL VERIFICATION FORM

PROJECT LOCATION & STREET ADDRESS - ZIP

ALEXANDRIA SAWMILL
...028 FENNER STREET
ALEXANDRIA - LA - 71301

A-7263

PROJECT PHONE (318) 448 4108

CONTRACTOR'S NAME & MAILING ADDRESS - ZIP

J. GRAVES INSULATION CO., INC.
...01 WEST 62nd STREET
SHREVEPORT - LA - 71148

CONTRACTOR'S PHONE (318) 861 3526

OWNER'S NAME AND MAILING ADDRESS - ZIP

LOUISIANA PACIFIC CO
P.O. BOX 3107
CONROE - TX - 77305

OWNER PHONE (409) 756 0511

PRINTED/TYPED NAME
AS F. AIRHART, SR.

3) ISSUE DATE
11/10/97

4) EXPIRATION DATE
02/10/98

7) PROJECT START DATE
[redacted]

PROJEC[redacted]

11) [redacted]
1500 FT[redacted]

12) DESIGNATED DIS[redacted]
DESOTO PAR[redacted]

14) SIGNATURE

****

R/OPERATOR
WASTE TRANSPORTER

DISPOSAL SITE

DATE SHIPPED
Robert Turnage 12-23-97
PRINTED/TYPED NAME

16) QUANTITY SHIPPED
1. 15 yds.

17) DATE PROJECT COMPLETED
1-23-98

SHIPPING CLASSIFICATION
Asbestos, Class 2, NA2212.111
RQ = 1 lb (.454 Kg)

21) SIGNATURE

****

...SPORTER
DATE RECEIVED
1-29-98
PRINTED/TYPED NAME
Charles Whitten

23) DATE DELIVERED
1-29-98

25) SIGNATURE
Charles Whitten

****

...TEL
QUANTITY RECEIVED
15 yds.
PRINTED/TYPED NAME

27) DATE BURIED
1/29/98

29) SIGNATURE

****

SPECIAL CONDITIONS OR COMMENTS:

DeSoto PPJ Mundy Landfill 318 872 2541 p.1

Reference 19

Louisiana-Pacific Corporation

Jason T. Sanders
Project Manager, Environmental Affairs

TCF Totally Chlorine Free

100 Interstate 45 North
P O Box 3107
Conroe TX 77305

409/788-9723
409/756-0570 Fax
E Mail ~~jsanders@TCAP.COM~~
jason.sanders@lpcorp.com

Louisiana-Pacific Corporation

Neil Sherman
Environmental Manager Surplus Properties

TCF Totally Chlorine Free

1 L P Drive
P O Box 158
[illegible]

707 [illegible]
[illegible]

E & E Job Number 000608.KJ06.04

Telephone Code Number 80927

Site Name Roy D. Martin
Lousiana-Pacific Corp

City/State Alexanchia, LA

TDD S06-99-07-0007

PAN 092710SAXX

SSID

Start/Finish Date Sept. 23, 1999 Sept. 23, 1999

Book 1 of 1

E & E Emergency Response Center: (716) 684-8940
E & E Corporate Center: (716) 684-8060
MEDTOX Hotline: (501) 370-8263
& E Safety Director (Home): (716) 655-1260

9-23-99 Roy O. Martin S06-99-07-0007

0700 START Maggie Carson arrives at DFW airport.

0710 START Alma Canning arrives at DFW airport.

0725 Site Safety meeting conducted weather: clear, sunny, high 81°F. see SSP meeting form.

0845 START and EPA TM Jon Rinehart arrive in Alexandria en route to FedEx to pickup TVA

0920 START departs FedEx to hospital.

0930 START drives by hospital en route to site

0940 START arrives at site. L-P Jason Sanders and Neil Sharman LDEQ Nora Lane on site.

1000 Bkgd 0.11 ppm PID, FID 0.9 ppm receiving, empty - some shelving inside and misc parts

1010 Touring former fabrication area in bldg 2. Heavy metals / may be on floor of bldg. Bldg 2 is open partially. North side has missing door/gate.

MCarson

9-23-99 Roy O. Martin S06-99-07-0007

1015 Tour continues to bldg 1 - open bldg - no doors with empty oil change pit. Also bldg 1 has empty fresh oil tanks.

1028 According to J Sanders all ASTs and USTs have been removed. Tour moves to recirculating petrol and debarker, sawmill building and lumber sorter, fuel house, boiler, cooling house foundation

1055 Permatox 10-S used in sawmill. A shallow trough containing the Permatox was used. Wood was dragged on chain through trough.

1115 Planer mill, large open sided bldg. No equipment or logs inside

1120 Bldg. 40 - location of former transformers. Contaminated PCB soil was removed from on top of concrete. Then building was demolished. Recycler to buy ~~to~~ site ~~the~~ to recycle cardboard.

Applewhite property was a sawmill owned by Martin Nokilus Sawmill

MCarson

Date: 9-23-99 Photo Log Nikon N4004 EPA#645635

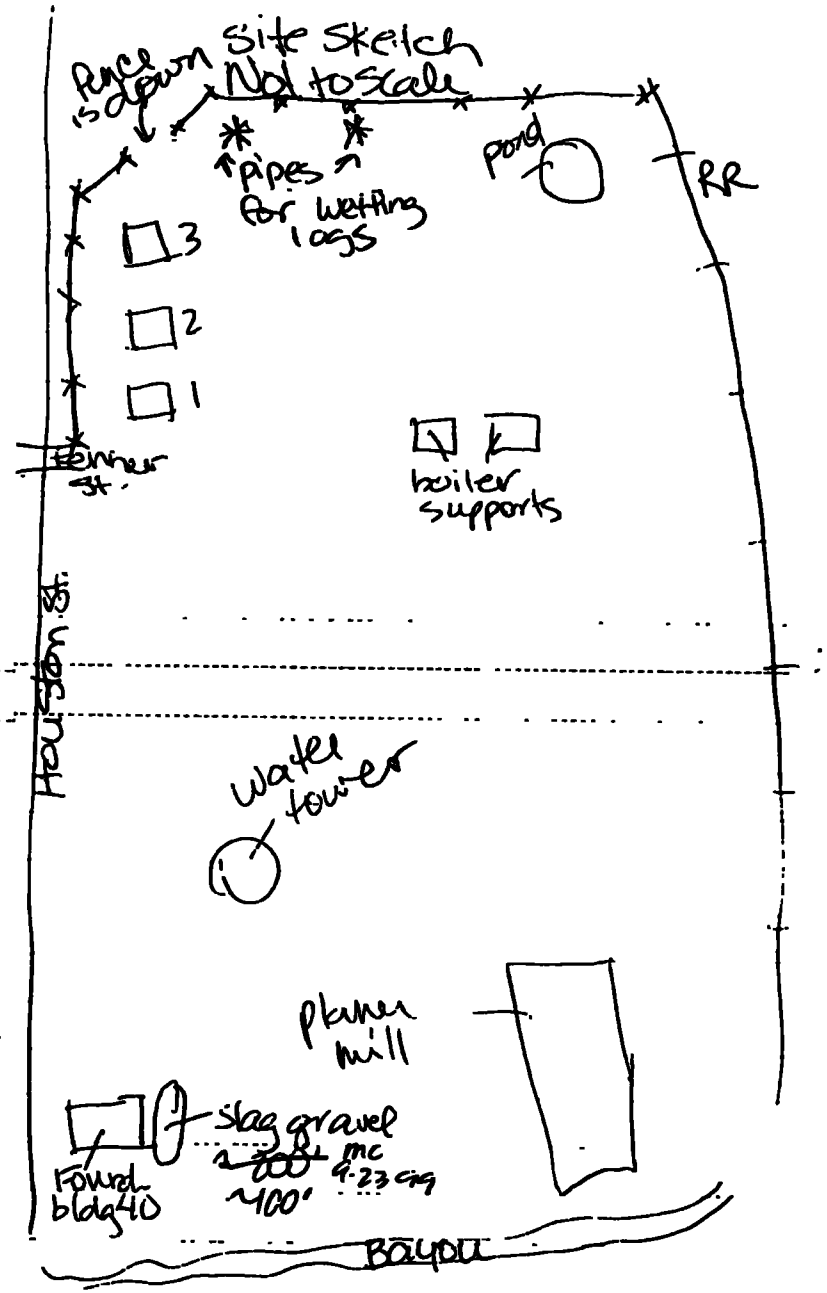
Roll	Frame	Dir	Description	Time	P/W
1	01	W	Receiving dept.	1010	mc/AC
	02	W	Fabrication Area	1012	
	03	W	"	1012	
	04	SW	North side of Bldg 2	1013	
	05	SW	"	1013	
	06	W	Oil change Pit	1015	
	07	NE	Oil Storage tanks (~~used~~ fresh oil) in bldg 1 mc 9-23-99	1016	
	08	N	Residence adjacent to site	1020	
	09	N	Former containment for 1000gal AST	1030	
	10	NW	Fence down on NE part of site	1030	
	11	NW	"	1030	
	12	S	Recirculating pond	1035	
	13	SE	"		
	14	SW	Debarker		
	15	E	Cooling house foundation	1045	
	16	E	"	1055	
				1055	
	17	W	Houses near site with low fencing	1125	
	18	NE	slag, pieces on driveway area east of bldg 40	1129	
	19	S	"	1129	
	20	N	coal or slag piece east of bldg 40	1130	
	21	N	Dark soil around/in slag driveway	1135	
	22	S	Bayou ~~Roberts~~ Hynson mc 9-23-99	~~12~~ mc 1225	
	23	SW	" " "	1225	

mcarson

9-23-99 Roy O. Martin S06-99-07-0007

9-23-99 Roy O. Martin S06-99-07-0007

9 23 99 Roy O. Martin 506-99-07-0007
only. Sanders has no knowledge of
L-P operating a sawmill there
Well water used for boiler and
was sampled for NPDES after
use.
1155 According to Sanders PCB transformers
belonging to power company were
removed by L-P.
1220 LDEQ Lane departs site.
START and PRP ~~depart~~ mc en route
to Roberts Bayou.
1240 START departs site.
1245-1345 Lunch break.
1345 START en route to Alexandria
Courthouse to copy plat map.
1445 START departs Courthouse to City
Hall to find Water department
mc 9-23-99
Supervisor: Superintendent
1500 START arrives at City Hall The
water utilities cashier informes
START that the water Superintendent
office is not located in City Hall.
START departs to Water dept.
Superintendent: Charles Miller
M Carson



a 2399 Roy D. Martin 526-99-07-0057
phone # 318-441-6215
1515 START places call to Charles
Miller en route to water office.
Miller has left for the day.
1520 START begins to bleed off
H_2 cylinders in TVA to carry
on plane
1700 START arrives at airport.
2100 START Carson arrives at home.
L.E. 1940 L-P Dwayne Moses on site.

Carson

Reference 20

MITRE

[illegible]

Ms Lucy Sibold
U.S Environmental Protection Agency
401 M Street, S W
Room 2536, Mail Code WH-548A
Washington, D.C. 20460

Dear Ms Sibold,

Enclosed is a copy of the draft revised HRS net precipitation values for 3,345 weather stations where data were available. The data are presented by state code, station name, latitude longitude, and net precipitation in inches. A list of state codes is also enclosed

The net precipitation values are provided to assist the Phase II - Field Testing efforts. It is suggested that the value from the nearest weather station in a similar geographic setting be used as the net precipitation value for a site

If there are any questions regarding this material, please contact Dave Egan at (703) 883-7866.

Sincerely,

Andrew M. Platt
Group Leader
Hazardous Waste Systems

AMP:DEE/hme

Enclosures

cc: Scott Parrish

The MITRE Corporation
Civil Systems Division
7525 Colshire Drive, McLean, Virginia 22102 [illegible]

FIELD NAME	FIELD DEFINITION
STATE-NUMBER	Characters 1-2 Cooperative State Code for each State.

STATE CODE LISTING

01 Alabama	28 New Jersey
02 Arizona	29 New Mexico
03 Arkansas	30 New York
04 California	31 North Carolina
05 Colorado	32 North Dakota
06 Connecticut	33 Ohio
07 Delaware	34 Oklahoma
08 Florida	35 Oregon
09 Georgia	36 Pennsylvania
10 Idaho	37 Rhode Island
11 Illinois	38 South Carolina
12 Indiana	39 South Dakota
13 Iowa	40 Tennessee
14 Kansas	41 Texas
15 Kentucky	42 Utah
16 Louisiana	43 Vermont
17 Maine	44 Virginia
18 Maryland	45 Washington
19 Massachusetts	46 West Virginia
20 Michigan	47 Wisconsin
21 Minnesota	48 Wyoming
22 Mississippi	49 Not Used
23 Missouri	50 Alaska
24 Montana	51 Hawaii
25 Nebraska	66 Puerto Rico
26 Nevada	67 Virgin Islands
27 New Hampshire	91 Pacific Islands

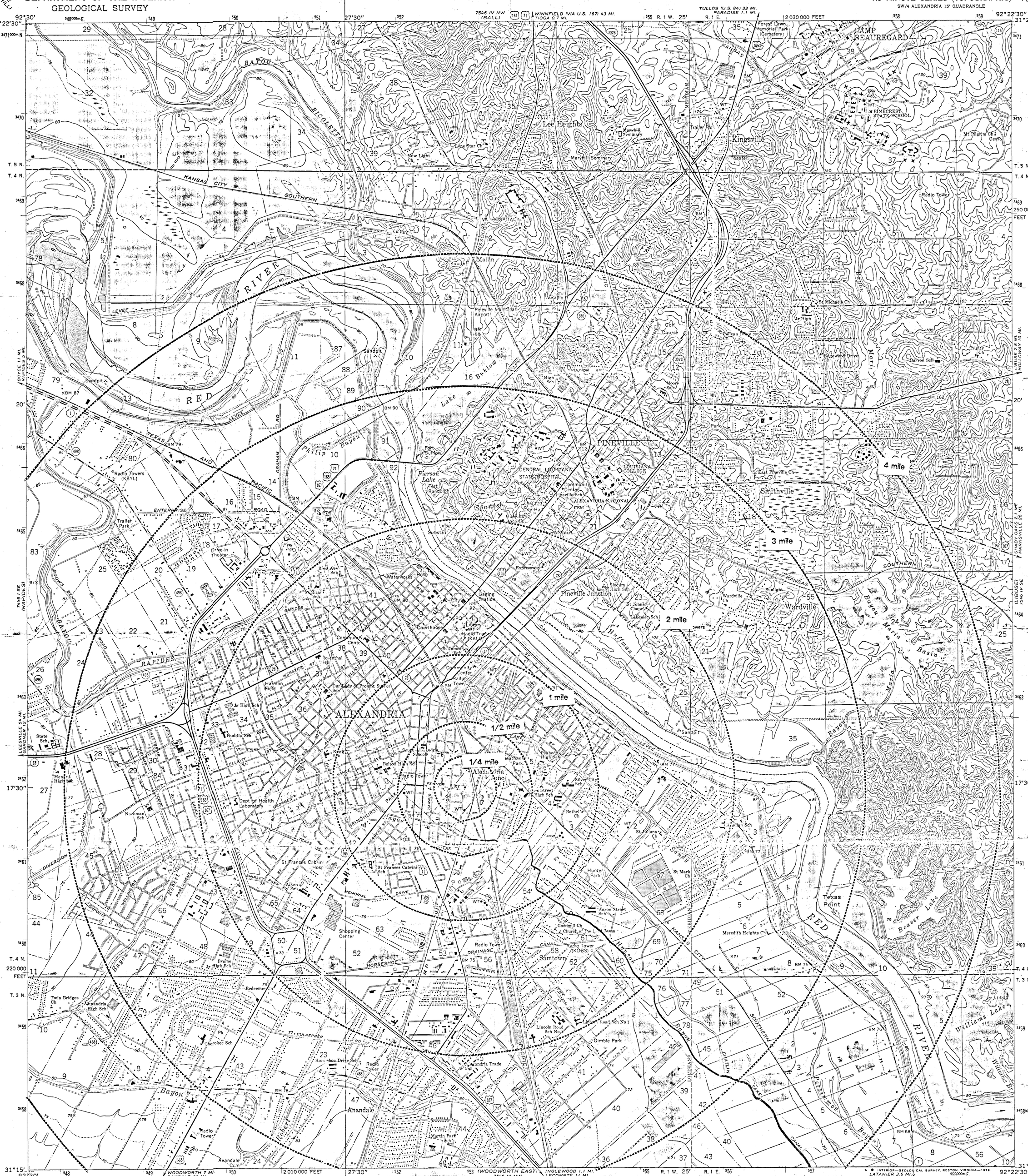
STATION-NUMBER	Characters 3-6 Cooperative Station Number Range = 0001-9999.
DATA-CODE	Character 7 Data Indicator Code 1 = Maximum Mean Temperature 2 = Minimum Mean Temperature 3 = Average (Mean) Temperature 4 = Heating Degree Days 5 = Cooling Degree Days 6 = Precipitation (1951-80 Normals only)

OBS	STATE	NAME		LATNUM	LONNUM	NETPREC
1101	16	GRAND COTEAU		30.26	92.02	22.3867
1102	16	COVINGTON 4 NNW		30.32	90.07	23.8247
1103	16	HAMMOND 3 NW		30.32	90.29	26.8570
1104	16	BATON ROUGE WSO	R	30.32	91.08	20.1282
1105	16	MELVILLE		30.41	91.45	22.3342
1106	16	AMITE		30.43	90.30	26.9962
1107	16	BOGALUSA		30.47	89.52	24.1599
1108	16	ELIZABETH		30.52	92.48	26.3992
1109	16	BUNKIE		30.57	92.10	27.3214
1110	16	LEESVILLE		31.09	93.16	22.0341
1111	16	ALEXANDRIA		31.19	92.28	24.2674
1112	16	BELAH FIRE TOWER		31.38	92.11	26.4149
1113	16	NATCHITOCHES		31.46	93.05	20.9529
1114	16	OLLA 3 SSW		31.52	92.16	26.3273
1115	16	WINNFIELD 2 W		31.56	92.41	23.8727
1116	16	SAINT JOSEPH EXP STA		31.57	91.14	24.7117
1117	16	LOGANSPORT 4 ENE		31.59	93.57	20.1961
1118	16	WINNSBORO		32.09	91.42	24.2368
1119	16	TALLULAH 2 SW		32.24	91.13	25.2981
1120	16	SHREVEPORT WSO	R	32.28	93.49	16.6642
1121	16	MONROE FAA AIRPORT		32.31	92.03	21.6628
1122	16	CALHOUN EXP STATION		32.31	92.20	22.3810
1123	16	RUSTON LA POLYTECH INS		32.31	92.39	23.4818
1124	16	MINDEN		32.36	93.18	20.2617
1125	16	HOMER EXP STATION		32.45	93.04	21.7412
1126	16	BASTROP		32.47	91.54	23.2370
1127	16	LAKE PROVIDENCE		32.49	91.12	25.6024
1128	16	COTTON VALLEY		32.49	93.25	21.3857
1129	16	PLAIN DEALING		32.54	93.41	20.9866
1130	17	PORTLAND WSO	//R	43.39	70.19	25.6420
1131	17	LEWISTON		44.06	70.14	26.3577
1132	17	GARDINER		44.13	69.47	25.3548
1133	17	AUGUSTA FAA AIRPORT		44.19	69.48	23.4279
1134	17	BAR HARBOR		44.23	68.12	32.5261
1135	17	BELFAST		44.24	69.00	29.7955
1136	17	RUMFORD 1 SSE		44.32	70.32	23.9090
1137	17	WATERVILLE PUMP STA		44.33	69.39	22.1899
1138	17	JONESBORO		44.39	67.39	31.1300
1139	17	FARMINGTON		44.41	70.09	26.3940
1140	17	BANGOR FAA AP		44.48	68.49	23.1465
1141	17	MADISON		44.48	69.53	21.2056
1142	17	EASTPORT	R	44.55	67.00	25.5849
1143	17	CORINNA		44.57	69.13	24.0225
1144	17	WOODLAND		45.09	67.24	27.6710
1145	17	RIPOGENUS DAM		45.53	69.11	19.8047
1146	17	HOULTON FAA AP		46.08	67.47	20.0847
1147	17	HOULTON		46.08	67.50	19.5627
1148	17	PRESQUE ISLE		46.39	68.00	17.1429
1149	17	CARIBOU WSO	//R	46.52	68.01	18.0141
1150	18	CRISFIELD SOMERS COVE		37.59	75.52	16.0542
1151	18	POCOMOKE CITY		38.04	75.33	18.2727
1152	18	PRINCESS ANNE		38.13	75.41	18.3406
1153	18	SNOW HILL 4 N		38.14	75.23	19.6273
1154	18	SOLOMONS		38.19	76.27	16.3734
1155	18	SALISBURY FAA AIRPORT		38.20	75.30	18.7381

Reference 21

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ALEXANDRIA QUADRANGLE
LOUISIANA—RAPIDES PARISH
7.5 MINUTE SERIES (TOPOGRAPHIC)
SW/4 ALEXANDRIA 15' QUADRANGLE



Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, and Louisiana Geodetic Survey

Topography by photogrammetric methods from aerial photographs taken 1955 and planetable surveys 1957. Revised from aerial photographs taken 1971. Field checked 1972

Polyconic projection. 1927 North American datum
10,000-foot grid based on Louisiana coordinate system, north zone
To place on the predicted North American Datum 1983 move the projection lines 15 meters south and 13 meters east as shown by dashed corner ticks
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

There may be private inholdings within the boundaries of the National or State reservations shown on this map

Red tint indicates areas in which only landmark buildings are shown

UTM GRID AND 1979 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND STATE OF LOUISIANA, DEPARTMENT OF PUBLIC WORKS, BATON ROUGE, LOUISIANA 70804
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

Revisions shown in purple compiled from aerial photographs taken 1977. Map edited 1979
This information not field checked

Purple tint indicates extension of urban area

ROAD CLASSIFICATION

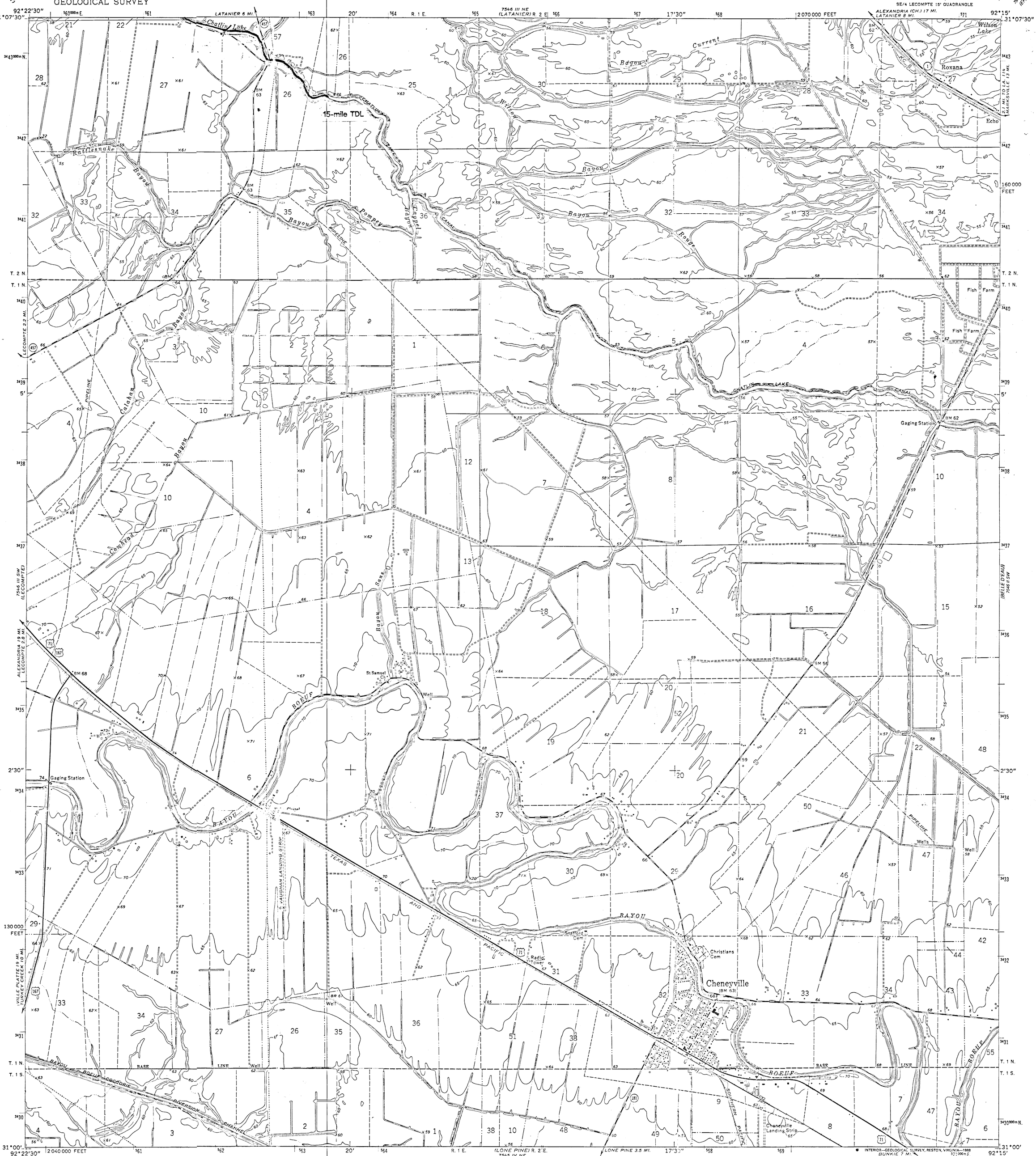
Primary highway, hard surface
Light-duty road, hard or improved surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U. S. Route
State Route

ALEXANDRIA, LA.
SW/4 ALEXANDRIA 15' QUADRANGLE
N3115—W9222.5/7.5

1972
PHOTOREVISED 1979
DMA 7546 IV SW—SERIES V885

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CHENEYVILLE QUADRANGLE
LOUISIANA—RAPIDES PARISH
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 LECOMPTE 15' QUADRANGLE



Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, and Louisiana Geodetic Survey

Topography by photogrammetric methods from aerial photographs taken 1971. Field checked 1972

Projection and 10,000-foot grid ticks: Louisiana coordinate system, north zone (Lambert conformal conic)
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue. 1927 North American datum

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

Map photoinspected 1978
No major culture or drainage changes observed

UTM GRID AND 1972 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND LOUISIANA DEPARTMENT OF PUBLIC WORKS, BATON ROUGE, LOUISIANA 70804
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

To place on the predicted North American Datum 1983, move the projection lines 16 meters south and 12 meters east as shown by dashed corner ticks

ROAD CLASSIFICATION

Primary highway, hard surface — Light-duty road, hard or improved surface
Secondary highway, hard surface — Unimproved road
Interstate Route — U. S. Route — State Route

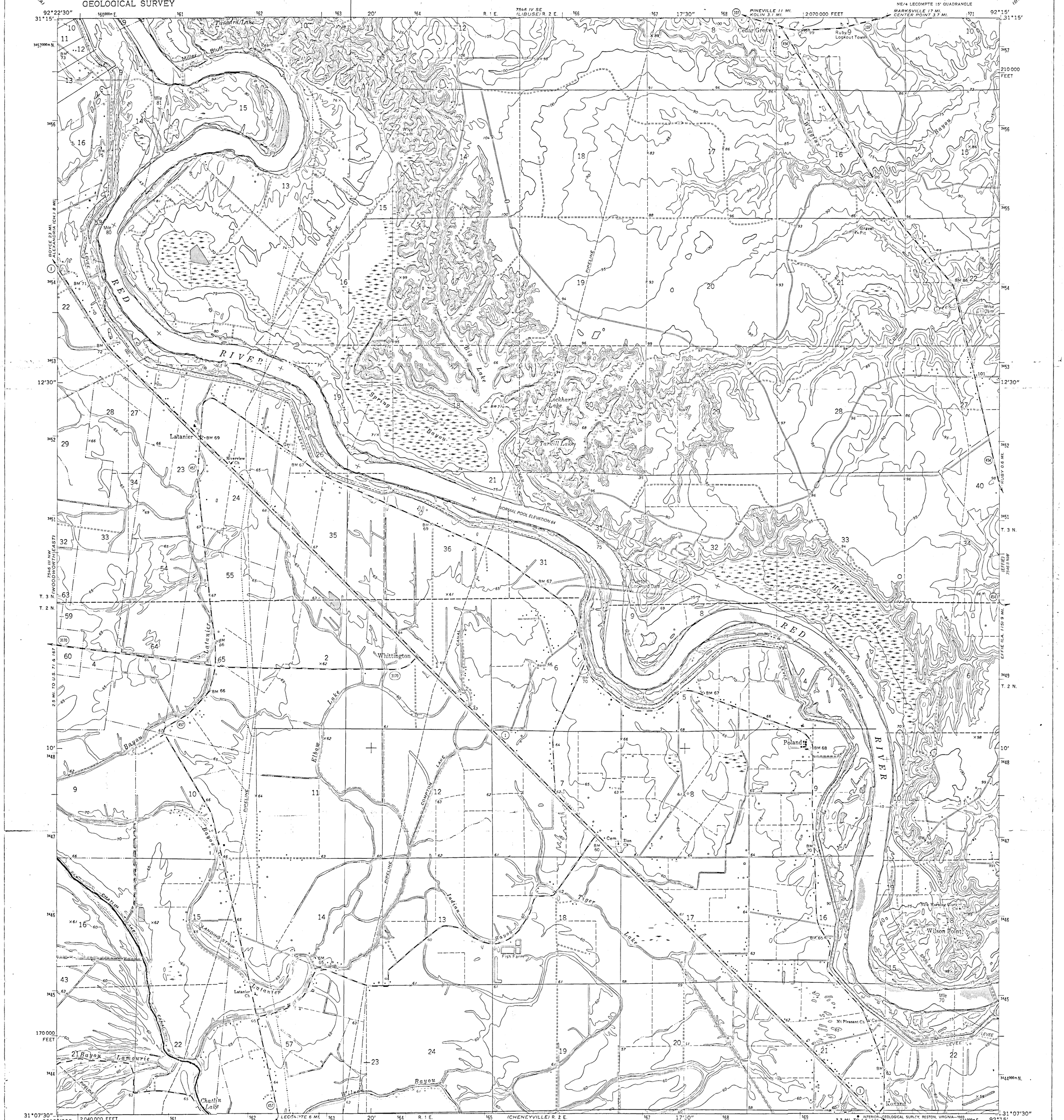
INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1988

CHENEYVILLE, LA.
SE/4 LECOMPTE 15' QUADRANGLE
31092-A3-TF-024

1972
PHOTOINSPECTED 1978
DMA 7546 III SE—SERIES V885

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LATANIER QUADRANGLE
LOUISIANA—RAPIDES PARISH
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE/4 LECOMPTE 15' QUADRANGLE



Produced by the United States Geological Survey

Control by USGS, NOS/NOAA, and Louisiana Geodetic Survey

Topography by photogrammetric methods from aerial photographs taken 1971. Field checked 1972

Projection and 10,000-foot grid ticks: Louisiana coordinate system, north zone (Lambert conformal conic)
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue
1927 North American Datum (NAD 27)

North American Datum of 1983 (NAD 83) is shown by dashed corner ticks
The values of the shift between NAD 27 and NAD 83 for 7.5-minute intersections are given in USGS Bulletin 1875

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

MN
GN
0°21'
6 MILS
3½°
62 MILS
UTM GRID AND 1993 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, BATON ROUGE, LOUISIANA 70804
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

LOUISIANA
QUADRANGLE LOCATION

Petroleum pipelines shown in purple compiled in cooperation with State of Louisiana agencies from aerial photographs taken 1990 and other sources. This information not field checked. Map edited 1993

Information shown in purple may not meet USGS content standards and may conflict with previously mapped contours

ROAD CLASSIFICATION

Primary highway, hard surface
Light-duty road, hard or improved surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U. S. Route
State Route

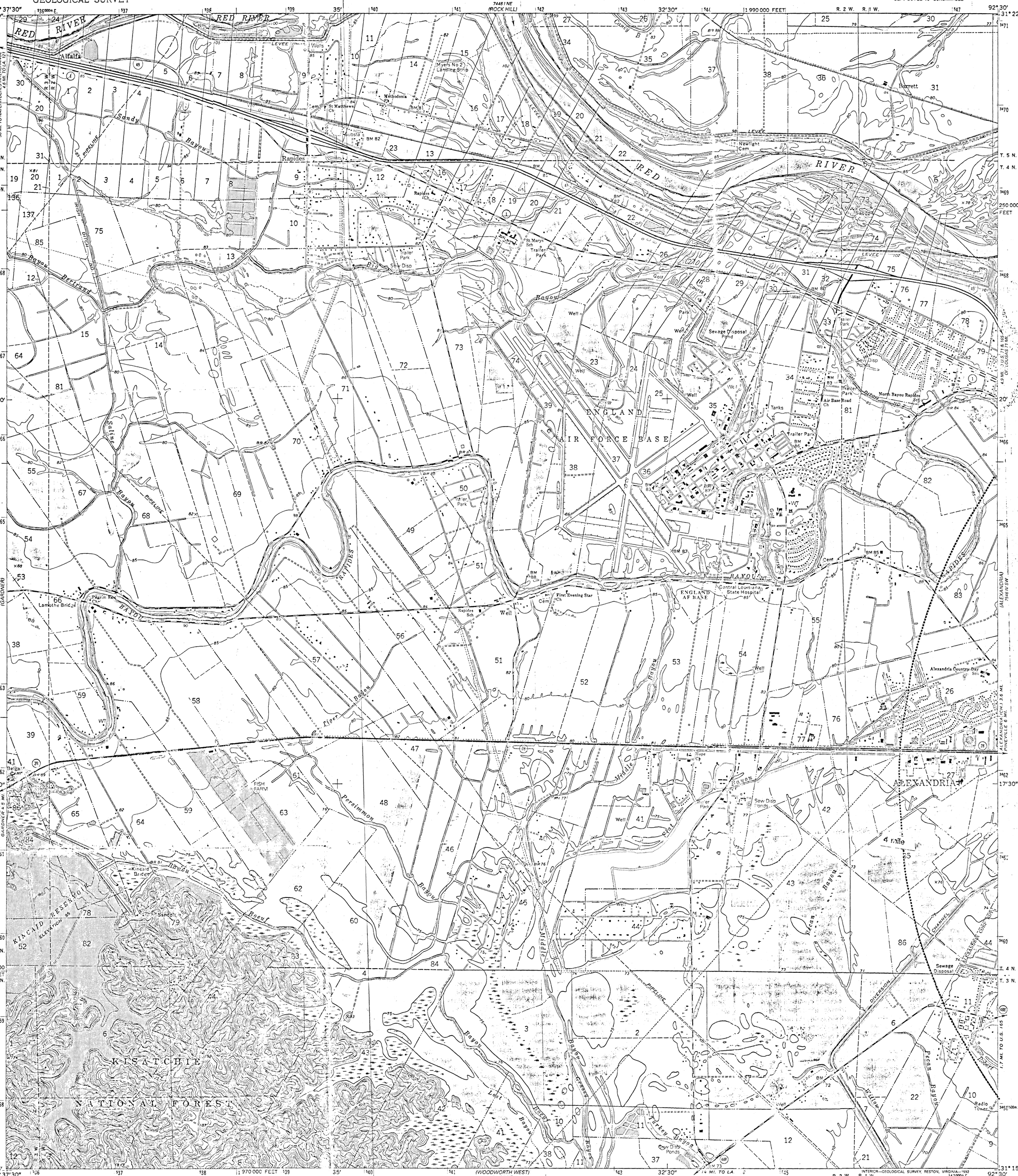
LATANIER, LA.
NE/4 LECOMPTE 15' QUADRANGLE
31092-B3-TF-024

03 003

1972
REVISED 1993
DMA 7546 III NE—SERIES V885

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RAPIDES QUADRANGLE
LOUISIANA—RAPIDES PARISH
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 BOYCE 15' QUADRANGLE



Produced by the United States Geological Survey

Control by USGS, NOS/NOAA and Louisiana Geodetic Survey

Topography by photogrammetric methods from aerial photographs taken 1970. Field checked 1972

Polyconic projection. 1927 North American Datum
10,000-foot grid based on Louisiana coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue
To place on the predicted North American Datum 1983 move the projection lines 13 meters south and 14 meters east as shown by dashed corner ticks

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1992 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, BATON ROUGE, LOUISIANA 70804
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

Revisions shown in purple were compiled in cooperation with State of Louisiana agencies and from aerial photographs taken 1990 and other sources. Revisions were compiled from available information but not field checked.

ROAD CLASSIFICATION

Primary highway, hard surface — Light-duty road, hard or improved surface
Secondary highway, hard surface — Unimproved road
Interstate Route — U. S. Route — State Route

RAPIDES, LA.
SE/4 BOYCE 15' QUADRANGLE
31092-C5-TF-024
1972
REVISED 1992

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WOODWORTH EAST QUADRANGLE
LOUISIANA—RAPIDES PARISH
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 LECOMPTE 15' QUADRANGLE

Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, and Louisiana Geodetic Survey

Topography by photogrammetric methods from aerial photographs taken 1971. Field checked 1972

Projection and 10,000-foot grid ticks: Louisiana coordinate system, north zone (Lambert conformal conic)
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue. 1927 North American datum
To place on the predicted North American Datum 1983 move the projection lines 16 meters south and 13 meters east as shown by dashed corner ticks

There may be private inholdings within the boundaries of the National or State reservations shown on this map

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1992 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
(GN, MN; 0°17′ 5 MILS; 3½° 62 MILS)

Revisions shown in purple compiled in cooperation with State of Louisiana agencies from aerial photographs taken 1990 and other sources. Contours not revised This information not field checked. Map edited 1992

Purple tint indicates extension of urban areas

SCALE 1:24 000
1 ½ 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, BATON ROUGE, LOUISIANA 70804
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

LOUISIANA
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Primary highway, hard surface
Light-duty road, hard or improved surface
Secondary highway, hard surface
Unimproved road
Interstate Route U. S. Route State Route

WOODWORTH EAST, LA.
NW/4 LECOMPTE 15' QUADRANGLE
31092-B4-TF-024

1972
REVISED 1992
DMA 7546 III NW - SERIES V885

Reference 22

State of Louisiana

James H. Jenkins, Jr.
Secretary

Department of Wildlife and Fisheries
Post Office Box 98000
Baton Rouge, LA 70898-9000
(504)765-2800

M.J. "Mike" Foster, Jr.
Governor

June 9, 1998

Alma Rillera
Ecology and Environment, Inc.
1999 Bryan Street
Dallas, TX 75201

RE: Quad reviews

Dear Ms Rillera:

Personnel of the Habitat Section of the Fur and Refuge Division have reviewed the preliminary data for the captioned project. In reviewing our database, no rare, threatened, or endangered species or critical habitats were found within the area of the captioned project that lies in Louisiana. No state or federal parks, wildlife refuges, scenic streams, or wildlife management areas are known at the specified site within Louisiana's boundaries.

The Louisiana Natural Heritage Program has compiled data on rare, endangered, or otherwise significant plant and animal species, plant communities, and other natural features throughout the state of Louisiana. Heritage reports summarize the existing information known at the time of the request regarding the location in question. They should not be considered final statements on the biological elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments. The Louisiana Natural Heritage Program requires that this office be acknowledged in all reports as the source of all data provided here.

Sincerely,

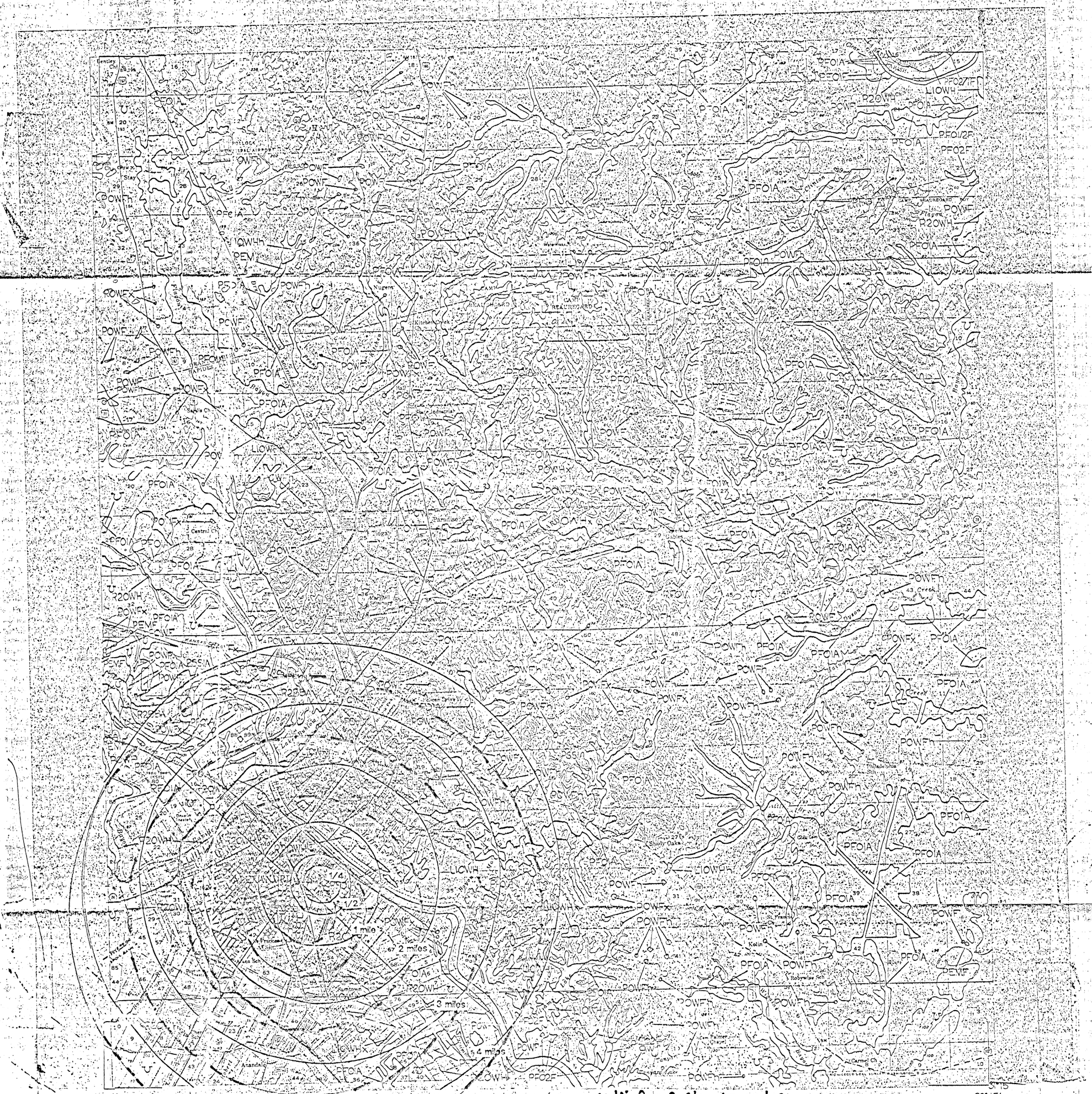
Johnnie W. Tarver
Assistant Secretary

JWT:kkm
enclosure: Invoice # 98060902

Reference 23

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR



ALEXANDRIA SE
ALEXANDRIA

— radii for Reston Foundry
--- radii for Fox D. Maxtin (Louisiana-Pacific)

ALEXANDRIA, LA.

SCALE 1:62500

1 0 1 2 3 4 MILES

1000 0 3000 6000 9000 12000 15000 18000 21000 FEET

1 .5 0 1 2 3 4 5 KILOMETERS

Other information concerning the wetland resources depicted on this document may be available. For information, contact:

Regional Director (ARDE) Region IV
U.S. Fish and Wildlife Service
75 Spring Street S.W.
Atlanta, Georgia 30303

SPECIAL NOTE

This document was prepared primarily by stereoscopic analysis of high altitude aerial photographs. Wetlands were identified on the photographs based on vegetation, visible hydrology, and geography in accordance with "Classification of Wetlands and Deep-Water Habitats of the United States (An Operational Draft), Cowardin, et al., 1977. The aerial photographs typically reflect conditions during the specific year and season when they were taken. In addition, there is a margin of error inherent in the use of the aerial photographs. Thus, a detailed on the ground and historical analysis of a single site may result in a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included on this document.

Federal, State and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, State or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, State or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

SYMBOLOGY EXAMPLE

SYSTEM
SUBSYSTEM
CLASS
EXAMPLE
SUBCLASS, WATER REGIME
UPLAND (NON-WETLANDS)
PF or PK — FARMED WETLANDS
CONTROLLED WATER REGIME

NOTES TO THE USER

- Wetlands which have been field examined are indicated on the map by an asterisk (*).
- Dominance type (either vegetative or sedentary animal) can be added to the map by the interested user.
- Additions or corrections to the wetlands information displayed on this map are solicited. Please forward such information to the address indicated.

AERIAL PHOTOGRAPHY

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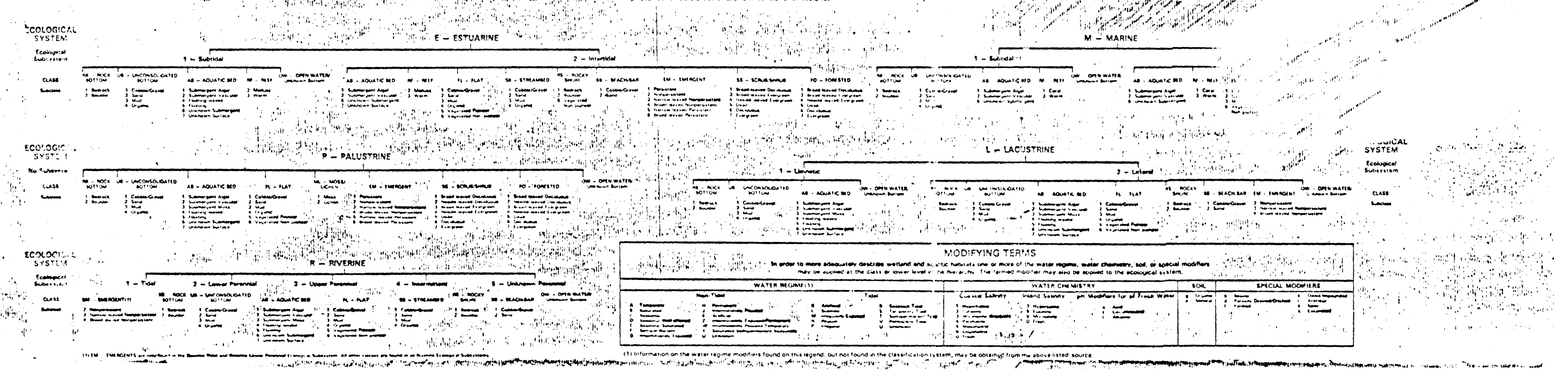
U.S. DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
Prepared by Office of Biological Services for the National Wetlands Inventory

WETLAND LEGEND

0 — Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

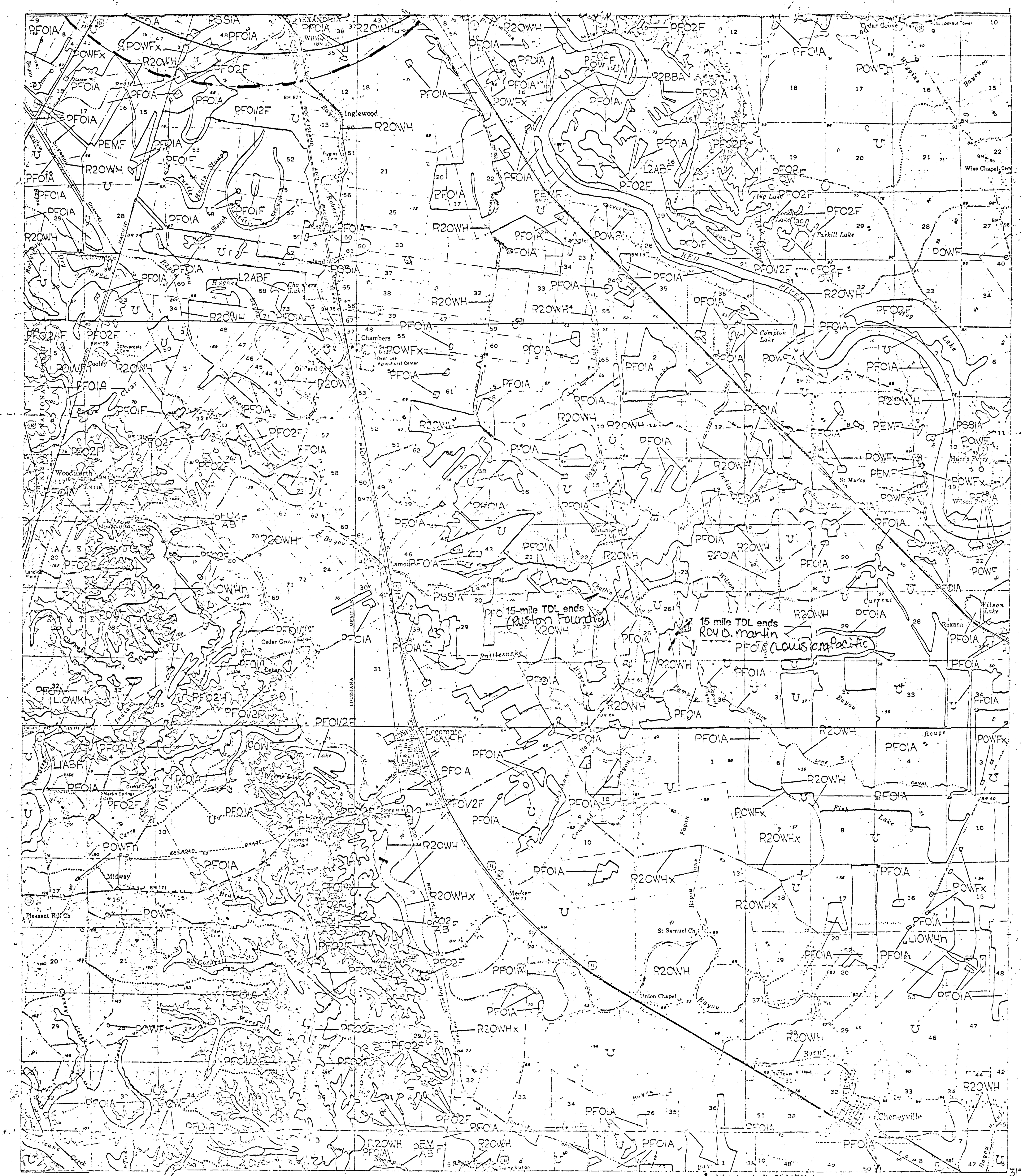


(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

45

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR



ALEXANDRIA SE

ALEXANDRIA

— Huston Foundry tdl
- - - Roy O. Martin (Louisiana-Pacific) tdl

LECOMPTE, LA

SCALE 1:62500

Other information concerning the wetland resources depicted on this document may be available. For information, contact:

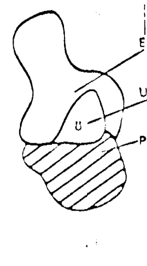
Regional Director (ARDE) Region IV
U.S. Fish and Wildlife Service
75 Spring Street S.W.
Atlanta, Georgia 30303

SPECIAL NOTE

This document was prepared primarily by stereoscopic analysis of high altitude aerial photographs. Wetlands were identified on the photographs based on vegetation, visible hydrology, and geography in accordance with Classification of Wetlands and Deep-Water Habitats of the United States (An Operational Draft), Cowardin, et al, 1977. The aerial photographs typically reflect conditions during the specific year and season when they were taken. In addition, there is a margin of error inherent in the use of the aerial photographs. Thus, a detailed on the ground and historical analysis of a single site may result in a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included on this document.

Federal, State and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, State or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, State or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

SYMBOLOGY EXAMPLE



NOTES TO THE USER

- Wetlands which have been field examined are indicated on the map by an asterisk (*).
- Dominance type (either vegetative or sedentary animal) can be added to the map by the interested user.
- Additions or corrections to the wetlands information displayed on this map are solicited. Please forward such information to the address indicated.

AERIAL PHOTOGRAPHY

DATE 11/ /74
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U.S. DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE

Prepared by Office of Biological Services for the National Wetlands Inventory

WETLAND LEGEND

U — Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

ECOLOGICAL SYSTEM

E — ESTUARINE

M — MARINE

P — PALUSTRINE

L — LACUSTRINE

R — RIVERINE

MODIFYING TERMS

45 002

Reference 24

RECORD OF COMMUNICATION

CONTRACT/PROGRAM: 68-W6-0013	
TDD#: S06-99-07-007	**PAN#:** 092710SAXX
CONVERSATION WITH: Jason Sanders	**DATE:** October 18, 1999
	TIME: 11 00 a m
TITLE: Project Manager, Environmental Affairs	
COMPANY: Louisiana-Pacific Corporation	
ADDRESS: P O Box 3107 Conroe, TX 77305	[ ] **ORIGINATOR PLACED CALL** [x] **ORIGINATOR RECEIVED CALL**
PHONE: 409-788-9723	
SUBJECT: Additional information needed for Roy O Martin/ Louisiana-Pacific site	

NOTES: START Carson also inquired about the slag-like gravel near building 40 Mr. Sanders says he will inquire the Environmental Manger, Neil Sherman, regarding the gravel Mr Sanders says neither Dwayne Moses, longtime employee nor Melvin Cody, facility manager, knows the origin of the gravel

The site is currently not used for anything. Only two employees are in the office. A security guard is present during the night

ACTION:

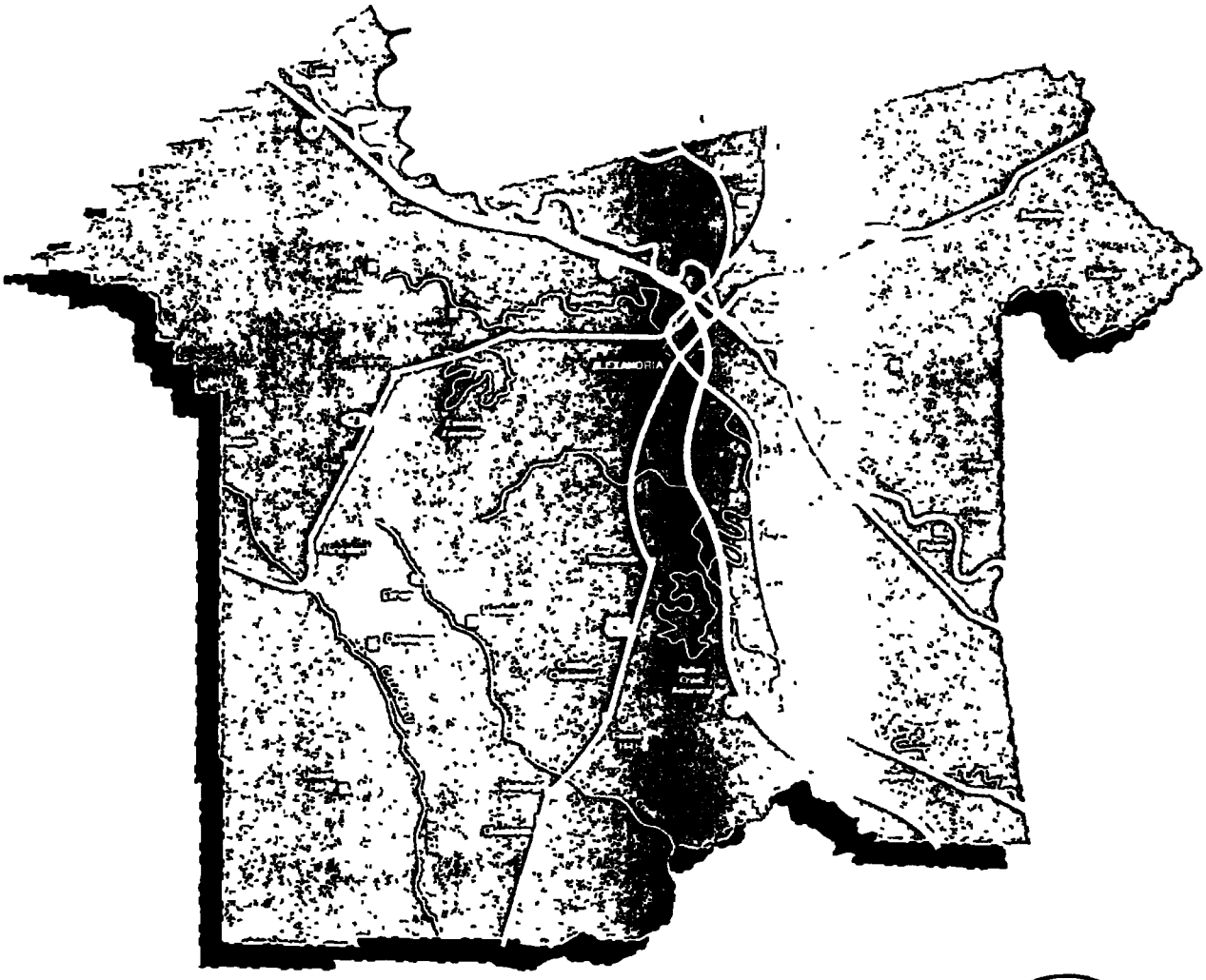
[ ] **FILE:**	**CONTRACT REPRESENTATIVE:** Jon Rinehart
[ ] **TICKLER FILE:**	**TITLE:** Site Assessment Manager
[ ] **FOLLOW-UP BY:**	**ORIGINATOR:** Maggie Carson
[ ] **DISTRIBUTION:**	**TITLE:** Team Leader

Reference 25

Hydrogeology and Water Resources of the Alexandria Area, Rapides Parish, Louisiana

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

Water Resources Technical Report No. 63



Prepared by the
U S DEPARTMENT OF THE INTERIOR
U S GEOLOGICAL SURVEY

In cooperation with the
CITY OF ALEXANDRIA, LOUISIANA

Published by the
LOUISIANA DEPARTMENT OF
TRANSPORTATION AND DEVELOPMENT

1998

Reference 26

U.S. DEPARTMENT OF COMMERCE
LUTHER H. HODGES, Secretary

WEATHER BUREAU
F. W. REICHELDERFER, Chief

TECHNICAL PAPER NO. 40

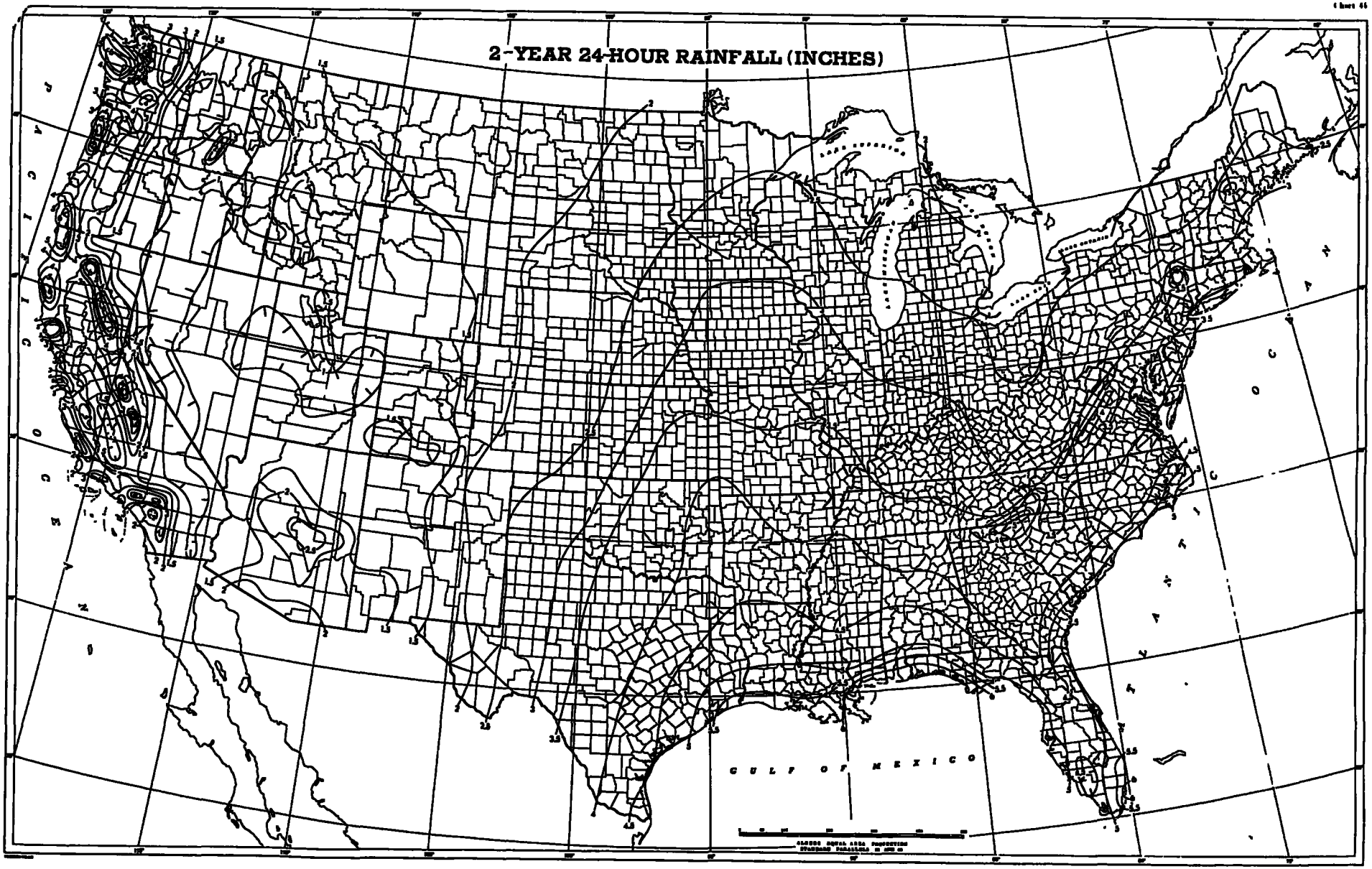
RAINFALL FREQUENCY ATLAS OF THE UNITED STATES

for Durations from 30 Minutes to 24 Hours and Return Periods from 1 to 100 Years

Prepared by
DAVID M. HERSHFIELD
Cooperative Studies Section, Hydrologic Services Division
for
Engineering Division, Soil Conservation Service
U.S. Department of Agriculture

WASHINGTON, D.C.
May 1961
Repaginated and Reprinted January 1963

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C. Price $1.25


2-YEAR 24-HOUR RAINFALL (INCHES)
GULF OF MEXICO

Reference 27

USGS
science for a changing world

Fax Cover

U.S. Department of the Interior
U.S. Geological Survey

The USGS provides the Nation with reliable, impartial information about the Earth to minimize the loss of lives and property from natural disasters, to manage biological, water, mineral, and energy resources, to enhance and protect the quality of life, and to contribute to wise economic and physical development.

Date:

Pages including this cover:

To: Maggie Carson

Fax number:

Phone number:

From: Paul Fosmire

Email:

Mailing address: U.S. Geological Survey, LA District Office
3535 S. Sherwood Forest Blvd., Suite 120, Baton Rouge, LA 70816

Fax number: (225) 389-0706

Phone number: (225) 389-0281 Ext. x3217

Message: - Flood Hazard area
- yr flood plain
100 yr. flood plain is the blackened area.

STREET
STREET
RM18
ZONE X
JACKSON
STREET
ZONE A
CITY PARK BLVD
BRYN MAWR
DRIVE
RM17
PEDESTRIAN BRIDGE
COURT
LIMIT OF DETAILED STUDY
THORNTON
OXFORD
CHESTER
STANFORD
RM 43
RM 42
ZONE AE
BUSH
DARTMOUTH
PRINCETON
HARVARD
YALE
RENSSELAER
ELM
HILL
BEECH ST
COURT
HICKORY
VANCE
HUFFMAN
WARSHAVER
WHITE
POLK
STREET
FRANKLIN
BARRISTER
CULVER
HARDTNER
TURNER
SCHNACK
RM 47
RM 16
PEDESTRIAN BRIDGE
WASHINGTON
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DRIVE
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TEXAS
OVERTON
FENNER
HARRIS
WISE
RM 40
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100-YEAR FLOOD
CONTAINED IN CULVERT
DALLAS AVE
ZONE AE
RM 14
MARTIN WISE
HOUSTON
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PARKER
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CYPRESS
ADAMS
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AVENUE
BROADWAY
AND
TEXAS
EXTENSION
PACIFIC
RAILROAD
PITTS
NEW YORK STREET
DETROIT STREET
MEMPHIS ST
LOS ANGELES DRIVE
CHICAGO STREET
ZONE X

Reference 28

RECORD OF COMMUNICATION

CONTRACT/PROGRAM: 68-W6-0013	
TDD#: S06-99-07-007	**PAN#:** 092710SAXX
CONVERSATION WITH: Harliss Bass	**DATE:** October 25, 1999
	TIME: 3 20 p.m
TITLE: Assistant Water Superintendent	
COMPANY: City of Alexandria	
ADDRESS: 2021 Industrial Park Road Alexandria, Louisiana 71302	[x] **ORIGINATOR PLACED CALL** [ ] **ORIGINATOR RECEIVED CALL**
PHONE: 318-441-6215	
SUBJECT: Surface Water Intakes in Chatlin Lake Canal	

NOTES: START Carson called Harliss Bass to inquire about surface water intakes in Chatlin Lake C anal from Alexandria downstream to 6 miles south of Latanier which is the 15-mile target distance limit (TDL) Mr Bass says there are no municipal surface water intakes Latanier buys water from Alexandria.

ACTION

[ ] **FILE:**	**CONTRACT REPRESENTATIVE:** Jon Rinehart
[ ] **TICKLER FILE:**	**TITLE:** Site Assessment Manager
[ ] **FOLLOW-UP BY:**	**ORIGINATOR:** Maggie Carson
[ ] **DISTRIBUTION:**	**TITLE:** Team Leader

Reference 29

State of Louisiana

Department of Environmental Quality

M.J. "MIKE" FOSTER, JR.
GOVERNOR

J. DALE GIVENS
SECRETARY

June 3, 1998

Ecology and Environment

Attention: Alma Rillera

This is in response to your request as to whether the following position falls within a Wellhead Protection Area:

Latitude 31 17 56

Longitude 92 26 18

The above position is inside the Alexandria Wellhead Protection area as shown on the attached map. If we can be of further assistance, please contact us at your convenience.

Sincerely,

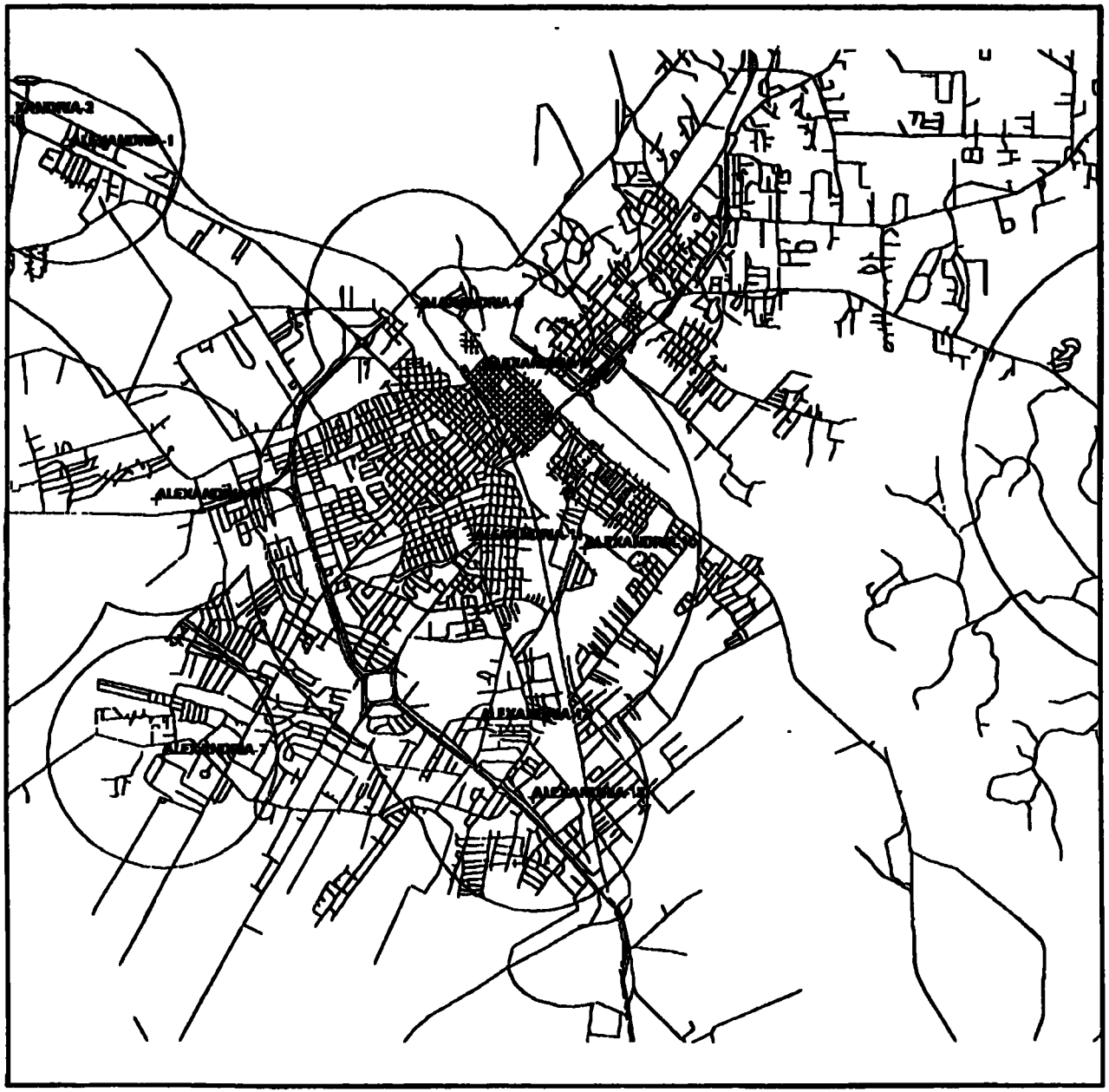
Don Haydel
Geologist

OFFICE OF WATER RESOURCES WATER QUALITY MANAGEMENT DIVISION AQUIFER EVALUATION AND PROTECTION SECTION

P.O BOX 82215 BATON ROUGE, LOUISIANA 70884-2215 TELEPHONE (504) 765-20578 FAX (504) 765-0602

recycled paper

AN EQUAL OPPORTUNITY EMPLOYER



Wellhead Center

RAPIDES

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N
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S

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

GIS Center

Reference 30

ecology and environment, inc.
International Specialists in the Environment

1999 Bryan Street
Dallas, Texas 75201
Tel· (214) 245-1000, Fax (214) 245-1001

Re: Ruston Foundry ESI

To the Reader:

Please note that oversized figures were not reproduced.

Maggie Carson
11/4/95

recycled paper

TECHNICAL DIRECTION DOCUMENT

S06-98-01-0022

TDD

048701SRXX

PAN

Ruston Foundry

Site Name / Non Site Activity

Alexandria, Rapides Parish, Louisiana

Site Location

EPA

Contract 68-W6-0013 with

ecology and environment, inc.

VOLUME 1

Expanded Site Inspection Report for Ruston Foundry Alexandria, Rapides Parish, Louisiana

Contract No: 68-W6-0013
TDD No: S06-98-01-0022
PAN: 048701SRXX

September 1998

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 6
1445 Ross Avenue
Dallas, Texas

ecology and environment, inc.
International Specialists in the Environment

1999 Bryan Street
Dallas, Texas 75201
Tel· (214) 220-0318, Fax (214) 855-1422

Date: September 15. 1998

To: Bill Rhotenberry, Site Assessment Manager
EPA Region 6

To: Henry Thompson Jr.. PO
EPA Region 6 Program Management Branch

Thru: Chris Quina. STL
Region 6 Superfund Technical Assessment and Response Team

From: Alma Rillera. Project Manager
Region 6 Superfund Technical Assessment and Response Team

Subj: Expanded Site Inspection Report
Ruston Foundry
TDD: S06-98-01-0022
PAN: 048701SRXX

Attached is the Expanded Site Inspection Report for the Ruston Foundry site located in Alexandria. Rapides Parish. Louisiana.

recycled paper

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1 Introduction

Pursuant to Contract No. 68-W6-0013, Ecology and Environment, Inc. (E & E) the Region 6 Superfund Technical Assessment and Response Team (START) Contractor, was tasked by the United States Environmental Protection Agency (EPA) to conduct an Expanded Site Inspection (ESI) at the Ruston Foundry site (LAD985185107) located in Alexandria, Rapides Parish, Louisiana.

1.1 Site Inspection Objectives

The objective of the ESI is site characterization utilizing the Hazard Ranking System (HRS). An ESI includes the investigation and documentation of critical hypothesis or assumptions not completely tested during the Site Inspection (SI), the collection and analysis of samples to attribute hazardous substances to site operations and to establish representative background levels, and the collection of any other missing HRS data for pathways of concern (Reference 4). Information obtained during the ESI provides the EPA with the necessary information to determine whether the site proceeds to the HRS stage or receives the classification of No Further Remedial Action Planned (NFRAP) under the Superfund Amendments and Reauthorization Act (SARA).

2 Site Background

2.1 Site Location

The Ruston Foundry site is located at 1010 Bogan Street, Alexandria, Rapides Parish, Louisiana (Figure 1, Reference 17). The site is situated on Sections 6 and 7, Township 4 North, Range 1 West and the geographical coordinates are approximately 31° 17' 56" north latitude and 92° 26' 18" west longitude as determined from the Alexandria United States Geological Survey (USGS) 7.5-minute topographic map (References 5 and 18). The 4.6 acre property is located in an urban area within the city limits of Alexandria (Reference 21). The Chatlin Lake Canal borders the site on the north, east, and south and the former Missouri-Pacific Railroad borders the site on the west. Residential neighborhoods are located to the north, east, and south of the site, on the opposite side of the Chatlin Lake Canal (Reference 22). An elementary school is located approximately 0.5 miles north of the site and a recreational park is located within 0.25 miles south of the site (References 5, 20 and 46).

2.2 Site Description

The site is inactive and has been abandoned since 1985 (Reference 18). The site is accessed by two bridges located at the north and south perimeters (Appendix A, Reference 17). During its operational years, Ruston Foundry consisted of a main foundry building, several out buildings including equipment and storage sheds. a work shop, a parts building, machine shops and tanks (References 17 and 25). As observed during the March 1998 START site reconnaissance, the majority of the buildings had been demolished by the city. The city requested that the buildings be demolished because they were structurally unsafe. The three remaining buildings were the parts building, restroom building and one unidentified building (Figure 2, Reference 26). The site is vegetated and is enclosed by dilapidated fencing (Reference 6). The site is unsecured, with the gate to the north entrance open. Several gaps in the fencing were also identified and two of these gaps had well defined footpaths passing through them. Solid waste dumping on site also indicated recent site access (Appendix A, References 6 and 26). Five 55-gallon drums were located on the southwest area of the site during the ESI. The remaining drums are sealed and are in poor condition due to rust. The drums were reported to contain liquids and sludge. One of the drums was overturned, with signs of liquid leakage (Appendix A, Reference 6). The drums were sampled during the November 12. 1990 Site Assessment (SA) sampling and were analyzed for organic parameters (Reference 17). Five slag piles have been identified; three slag piles are located within the fenced area and two are located along the bank of the Chatlin Lake Canal, of the southern entrance bridge. Two foundry sand piles

were also identified along the bank of the Chatlin Lake Canal, of the northern entrance bridge (Reference 6 and 17). Sand is typically used as a molding media for casting in foundry operations (Reference 27). Various metal debris, foundry sand and transite asbestos shingles from roofing materials are scattered mainly around the building areas. Site drainage is towards the north, south and east into the Chatlin Lake Canal (Reference 17).

2.3 Ownership and Operational History

First incorporated in August 30, 1908 as the Ruston Foundry and Machine Shop, Ltd., the corporation was reincorporated and renamed as the Ruston Foundry and Machine Shop, Inc. in October 31, 1983. The corporation's purpose of business was to engage in manufacturing, prefabrication and repair of articles of steel and any other metals; and to deal in both real and personal property. In 1985, the site property was adjudicated by the Rapides Parish Tax Assessor's Office. The corporation was dissolved due to unpaid taxes and its charter was revoked by the Louisiana Secretary of State for non-filing of its corporate annual report. There is no indication that the corporation was ever liquified or involved in bankruptcy proceedings. Operations at the site were simply abandoned (References 6, 18, 21 and 26).

2.4 Regulatory History/ Previous Investigations

The Louisiana Department of Environmental Quality Inactive and Abandoned Site Division (LDEQ-IASD) conducted a site investigation on June 5, 1990 which included drum and surface soil sampling. Inorganic analysis of the soil samples revealed concentrations up to 1,350 parts per million (ppm) of lead. Organic analysis of the drums revealed concentrations of 35 ppm of toluene and 100 ppm of ethylbenzene. Based on these sample results, LDEQ referred the site to the Environmental Protection Agency (EPA) as a candidate for an emergency response action (References 18 and 20).

On October 26, 1990, the EPA Emergency Response Branch (ERB) tasked the Technical Assistance Team (TAT) to conduct a SA to determine sampling strategies for the site (Reference 17).

On November 12, 1990, TAT conducted a SA. Fifty soil samples and drum samples were collected for analysis. Analytical data revealed elevated concentrations of arsenic (110 ppm), chromium (230 ppm), cobalt (220 ppm), lead (120, 000 ppm), mercury (1.8 ppm) and zinc (5,000 ppm) in the soil samples. Lead (2,130 ppm) and various organic compounds were detected in the sludge samples collected from 21 of the 22 drums located on site (Reference 17). Air monitoring was conducted around the drum areas and no organic vapors above background were detected in the ambient air around the drums (Reference 17). Air sampling of the site revealed a lead concentration of 0.0685 milligrams per cubic meter (mg/m^3) at the on-site

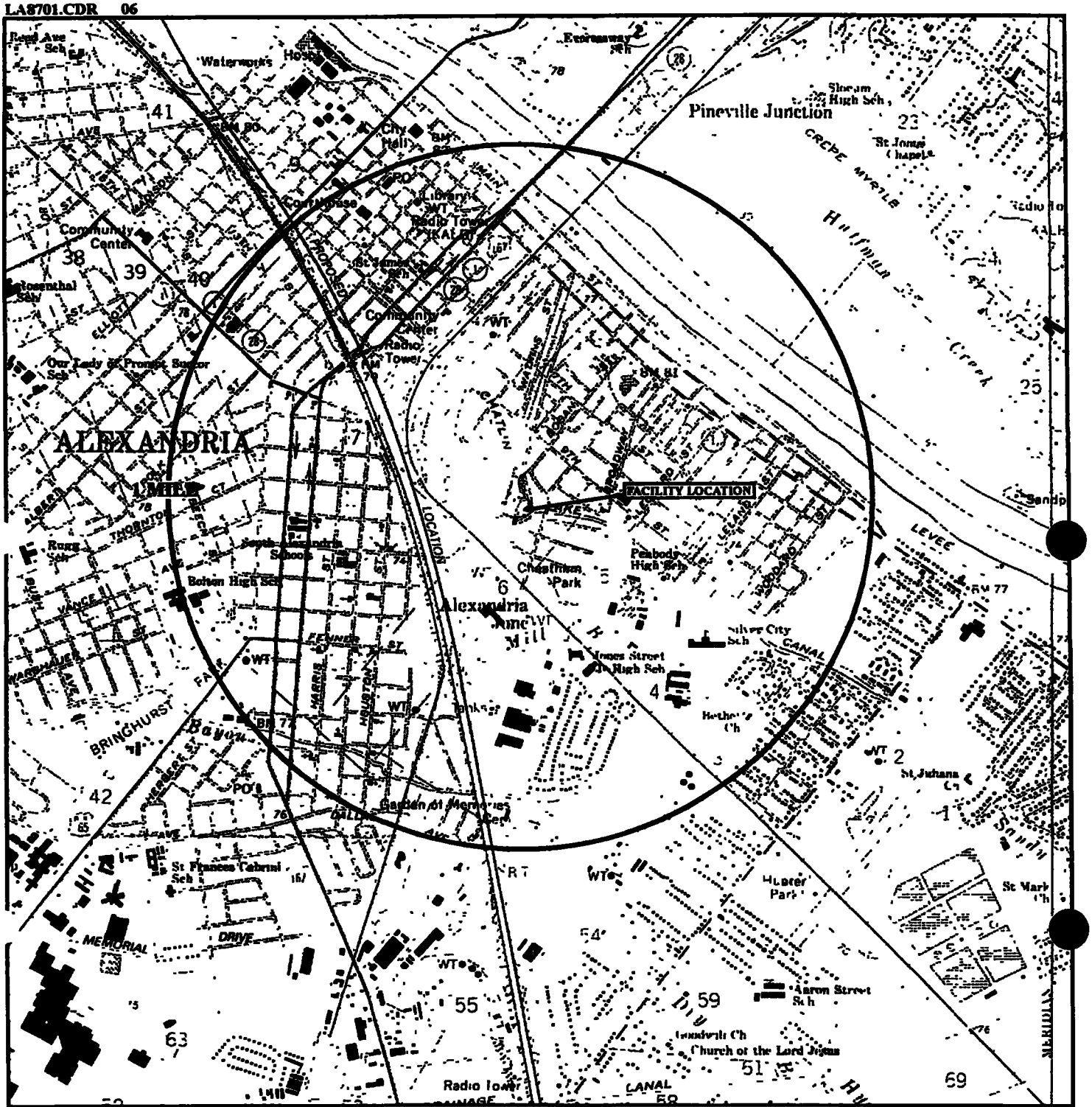
downwind location, three times higher than the 0.0181 mg/m^3 lead concentration found at the upwind location (Figure 3, Reference 17). The exact location of the high volume air samplers are unknown.

On May 1993, Metcalf & Eddy, Inc. was tasked to conduct a Mini-Potentially Responsible Party (PRP) Search to assist EPA in identifying PRPs associated with the ownership and operation of the Ruston Foundry site (Reference 18).

On February 9, 1994, EPA tasked TAT to conduct a SA to determine the type and volume of materials to be addressed by a removal action and research disposal options for the site. The volume of waste estimated for the twenty-two 55-gallon drums was 1,210 gallons. The estimated waste volume of the two slag piles was calculated to be approximately 350 cubic yards (y^3). A six-inch excavation for the entire site was calculated to be 4,033.3 y^3 (8,066.7 y^3 for a twelve-inch excavation). The following on- or off-site treatment options were considered: soil washing, gravimetric separation, ionization process, on-site heat bleaching of the lead contaminated soils, on-site consolidation with stabilization of waste and off-site transportation and disposal (Reference 19).

2.5 Source Waste Characterization

The waste of concern are those typically associated with the foundry operations. The known sources of contamination are the five slag piles, two foundry sand piles, on-site soil, contaminated soil in residential yards and the five remaining 55-gallon drums. The drums have not been characterized at this time (Reference 6). See Section 5.1 for additional information identifying the sources.



N

SCALE 1:24 000

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1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

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CONTOUR INTERVAL 10 FEET

QUADRANGLE LOCATION

ecology and environment, inc.
Superfund Technical Assessment & Response Team - Region 6

CERCLIS/CASE No. LAD985185107 TDD No. S06-98-01-0022

SOURCE: USGS 7.5 MIN. TOPOGRAPHIC QUADRANGLES ALEXANDRIA, LOUISIANA - 1972

FIGURE 1
FACILITY LOCATION MAP
RUSTON FOUNDRY

3 Investigation Methodology

3.1 Site-Specific Objectives

The objectives of the ESI performed at the Ruston Foundry site were to:

- Obtain sufficient HRS-quality analytical data to characterize the site;
- Collect air and soil samples from the site and from the nearby residences;
- Obtain additional data for source characterization and pathway evaluation;
- Determine whether off-site soil exposure target receptors have been impacted by contaminants at the site.

3.2 Sample Methodology

To meet the objectives of this investigation, a judgmental sampling approach was implemented on the different source contaminants associated with the site (Reference 28). During the week of April 20, 1998, START collected forty-eight samples including air, on site and off site surface soils, sediments, pile, and field quality control (QC) (duplicates and blanks) samples. All samples were collected and sent to a START-procured laboratory and analyzed for Total Metals. Two of the samples were analyzed for Toxicity Characteristic Leaching Procedure (TCLP) metals using protocols similar to the Contract Laboratory Program (CLP) protocols. Air samples were also analyzed for Total Suspended Particulate (TSP). All samples were shipped for overnight delivery to the designated laboratory using Federal Express. Chain-of-Custody (COC) documentation is presented in Appendix C. All field activities were documented using sample tags/labels, daily logs, field notebooks, photographic documentation, and COC procedures (Appendices A and C, References 6, 7, 8 and 28).

3.2.1 Air Samples

Sixteen air samples and one field blank were collected during the ESI field activities and analyzed for Target Analyte List (TAL) metals (except for mercury) using the procedures specified in the 40 Code of Federal Regulations (CFR) Part 50 Appendix B and START 12/95 Statement

of Work (SOW) SW846 Method 6010A (Table 3-1, Appendix F, Reference 34). High volume TSP air samplers were calibrated on-site, and samples were collected in the breathing zone level on 8" x 10" cellulose filters. Samples were collected on site for twelve continuous hours on two consecutive days. Air samplers were stationed off the sources (Figure 4, References 8, 23 and 28).

3.2.2 Soil Samples

Twenty-five soil samples were collected during the ESI field activities (Table 3-1, Appendix F). Samples collected on-site included four soil samples including a duplicate, four slag pile samples and two foundry sand pile samples. Off-site soil samples included two background samples and thirteen residential soil samples including a duplicate. Sample points were screened before collection using a Spectrace 9000 portable X-ray Fluorescence (XRF) Spectrophotometer to assist in locating areas of higher concentrations (Reference 7). Samples were analyzed for TAL metals, including mercury, using the procedures specified in the START 12/95 SOW, SW846 methods 6010 and 7471A. One on-site soil sample and one slag pile sample were also analyzed for TCLP metals using the procedures specified in SW846 Method 311 and START 12/95 SOW, SW846 Methods 6010A and 7470A (Reference 34). Samples were collected using a stainless-steel trowel at depths ranging from 0- to 6-inches (Figures 4 and 5, References 7 and 28).

3.2.3 Sediment Samples

Four downstream sediment samples and two upstream (background) sediment samples were collected during the ESI field activities from Chatlin Lake Canal. Samples were analyzed for TAL metals, including mercury, using the procedures specified in the START 12/95 SOW, SW846 Methods 6010A and 7470A (Table 3-1, Appendix F, Reference 34). The sediment samples were collected using a stainless-steel trowel at depths ranging from 0- to 6-inches (Figure 5, References 7 and 28).

3.3 Non-Sampling Data Collection Methodology

Non-sampling data that were collected during the ESI included a written site access agreement from the property owner; site access agreements and interviews of site owners/occupants on nearby residences; wetlands, endangered and threatened species analyses; benchmark for the global positioning system (GPS) points analysis and mapping; fishery analysis; flood plain analysis; logbooks; and video and photographic documentation.

3.4 Emergency Response/Removal Sampling Actions

Imminent and substantial endangerment (ISE) conditions such as potential for fire does not exist on the site. To prevent access to the site from trespassers, fencing and trespassing/warning signs were installed surrounding the 4.6 acre site posted in 1991(Reference 17).

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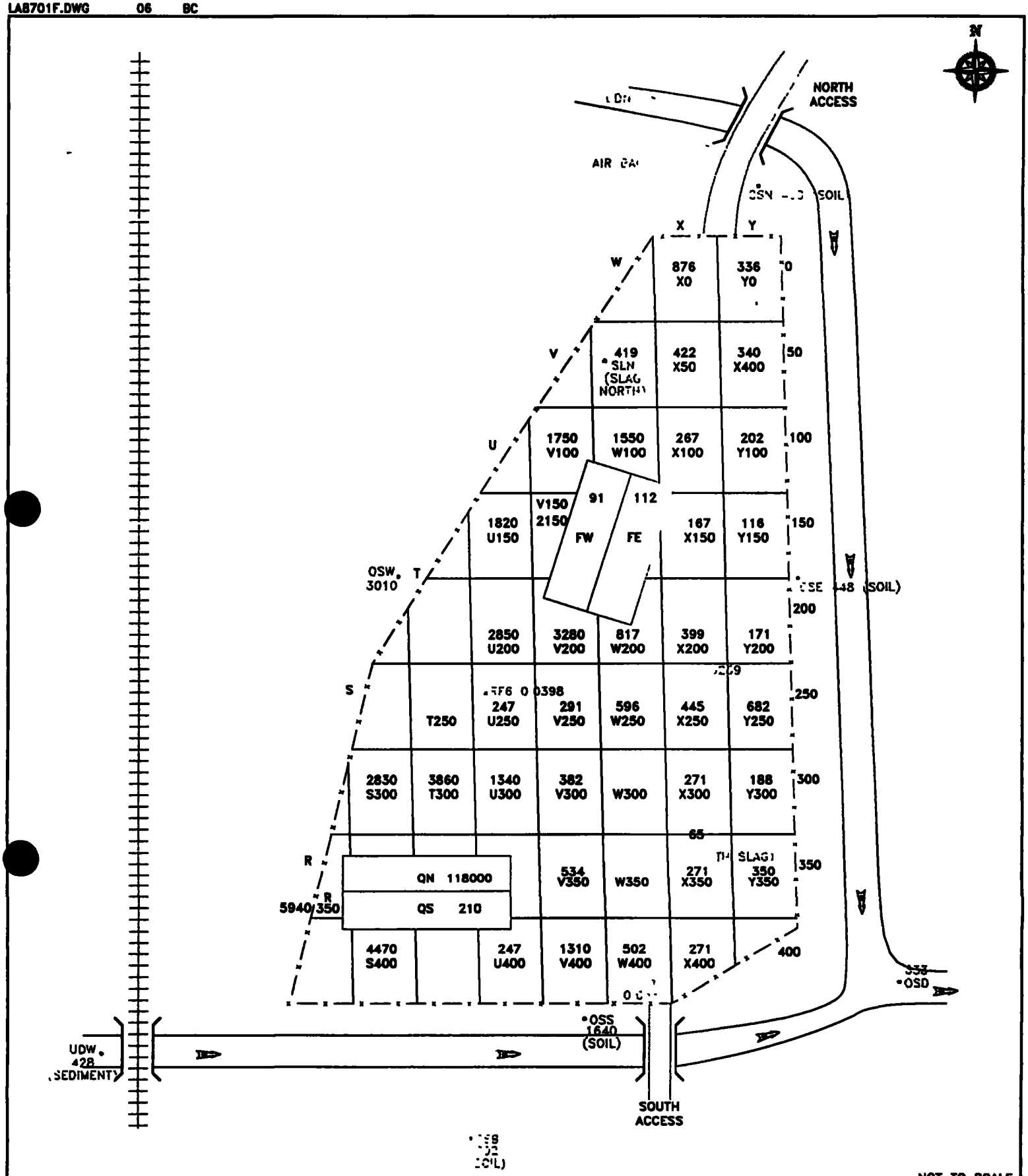

NOT TO SCALE

NOTE:
SAMPLES R-Y (SOIL)
RF1-8 (AIR)
SL (SLAG)

LEGEND	
FLOW DIRECTION	
BANDONED RAILROAD	
IL BACKGROUND	
FENCE/ PROPERTY BOUNDARY	

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FIGURE 3
1990 SA SAMPLING GRID
RUSTON FOUNDRY

TDD: S06-98-01-0022	Date: JULY 31, 1998
PAN: 048701SRXX	P.M.: A. RILLERA

TABLE 3-1

EXPANDED SITE INSPECTION SAMPLES
RUSTON FOUNDRY
ALEXANDRIA, RAPIDES PARISH, LOUISIANA

Sample No.	Matrix	Laboratory	GPS Coordinates	Location/Rationale
RFA01	Air Filter	START-procured laboratory	31° 17' 54.8" N 92° 26' 25.9" W	High volume TSP air sample collected north of the site, day 1. Rationale: To determined the presence of particulate air migration from site; Background sample, upwind, on site.
RFA02	Air Filter	START-procured laboratory	31° 17' 52.8" N 92° 26' 24.9" W	High volume TSP air sample collected northwest of the site, day 1. Rationale: To determine the presence of particulate air migration from site, downwind, on site.
RFA03	Air Filter	START-procured laboratory	31° 17' 51.5" N 92° 26' 25.2" W	High volume TSP air sample collected west of the site, day 1. Rationale: To determine the presence of particulate air migration from site, downwind, on site.
RFA04	Air Filter	START-procured laboratory	31° 17' 50.1" N 92° 26' 26.2" W	High volume TSP air sample collected southwest of the site, day 1. Rationale: To determine the presence of particulate air migration from site, downwind, on site.
RFA05	Air Filter	START-procured laboratory	31° 17' 49.3" N 92° 26' 25.9" W	High volume TSP air sample collected south of the site, day 1. Rationale: To determine the presence of particulate air migration from site, downwind, on site.
RFA06	Air Filter	START-procured laboratory	31° 17' 48.2" N 92° 26' 25.1" W	High volume TSP air sample collected southeast of the site, day 1. Rationale: To determine the presence of particulate air migration from site, downwind, on site.
RFA07	Air Filter	START-procured laboratory	31° 17' 48.7" N 92° 26' 24.4" W	High volume TSP air sample collected east of the site, day 1. Rationale: To determine the presence of particulate air migration from site, downwind, on site.
RFA8	Air Filter	START-procured laboratory	31° 17' 47.8" N 92° 26' 25.8" W	High volume TSP air sample collected southeast of the site, day 1. Rationale: To determine the presence of particulate air migration from site, downwind, off site.
RFA09	Air Filter	START-procured laboratory	31° 17' 54.8" N 92° 26' 25.9" W	High volume TSP air sample collected north of the site, day 2. Rationale: To determined the presence of particulate air migration from site; Background sample, upwind, on site.

TABLE 3-1

EXPANDED SITE INSPECTION SAMPLES
RUSTON FOUNDRY
ALEXANDRIA, RAPIDES PARISH, LOUISIANA

Sample No.	Matrix	Laboratory	GPS Coordinates	Location/Rationale
RFA10	Air Filter	START-procured laboratory	31° 17' 52.8" N 92° 26' 24.9" W	High volume TSP air sample collected northwest of the site, day 2. Rationale: To determine the presence of particulate air migration from site, downwind, on site.
RFA11	Air Filter	START-procured laboratory	31° 17' 51.5" N 92° 26' 25.2" W	High volume TSP air sample collected west of the site, day 2. Rationale: To determine the presence of particulate air migration from site, downwind, on site.
RFA12	Air Filter	START-procured laboratory	31° 17' 50.1" N 92° 26' 26.2" W	High volume TSP air sample collected southwest of the site, day 2. Rationale: To determine the presence of particulate air migration from site, downwind, on site.
RFA13	Air Filter	START-procured laboratory	31° 17' 49.3" N 92° 26' 25.9" W	High volume TSP air sample collected south of the site, day 2. Rationale: To determine the presence of particulate air migration from site, downwind, on site.
RFA14	Air Filter	START-procured laboratory	31° 17' 48.2" N 92° 26' 25.1" W	High volume TSP air sample collected southeast of the site, day 2. Rationale: To determine the presence of particulate air migration from site, downwind, on site.
RFA15	Air Filter	START-procured laboratory	31° 17' 48.7" N 92° 26' 24.4" W	High volume TSP air sample collected east of the site, day 2. Rationale: To determine the presence of particulate air migration from site, downwind, on site.
RFA16	Air Filter	START-procured laboratory	31° 17' 47.8" N 92° 26' 25.8" W	High volume TSP air sample collected southeast of the site, day 2. Rationale: To determine the presence of particulate air migration from site, downwind, off site.
RFBLK	Air Filter	START-procured laboratory	N/A	Unused air filter sample to accompany sample shipment. Rationale: Field QA/QC.
RF-01S	Soil	START-procured laboratory	31° 17' 49.7" N 92° 26' 25.6" W	Surface soil sample collected near the parts building. Rationale: To determine if hazardous constituents are present on the soil.

TABLE 3-1

EXPANDED SITE INSPECTION SAMPLES
RUSTON FOUNDRY
ALEXANDRIA, RAPIDES PARISH, LOUISIANA

Sample No.	Matrix	Laboratory	GPS Coordinates	Location/Rationale
RF-20S	Soil	START-procured laboratory	31° 17' 49.7" N 92° 26' 25.6" W	Surface soil sample collected near the parts building. Rationale: Duplicate sample of RF-01S.
RF-02SL	Soil	START-procured laboratory	31° 17' 48.5" N 92° 26' 26.5" W	Surface soil sample collected near the south bank of Chatlin Lake Canal. Rationale: To determine if hazardous constituents are present on the soil.
RF-07S	Soil	START-procured laboratory	31° 17' 51.8" N 92° 26' 25.2" W	Surface soil sample collected near the northeast slag pile. Rationale: To determine if hazardous constituents are present on the soil.
RF-05-SLP	Soil	START-procured laboratory	31° 17' 49.2" N 92° 26' 23.4" W	Slag sample collected from slag pile located east of the site. Rationale: To determine if hazardous constituents are present on the pile.
RF-06-SLP	Soil	START-procured laboratory	31° 17' 51.8" N 92° 26' 26.2" W	Slag sample collected from slag pile located northwest of the site. Rationale: To determine if hazardous constituents are present on the pile.
RF-13-SLP	Soil	START-procured laboratory	31° 17' 47" N 92° 26' 25" W	Slag sample collected from slag pile located east of the site. Rationale: To determine if hazardous constituents are present on the pile.
RF-14-SLP	Soil	START-procured laboratory	31° 17' 47" N 92° 26' 25" W	Slag sample collected from slag pile located east of the site. Rationale: Duplicate sample of RF-13-SLP.
RF-08-SP	Soil	START-procured laboratory	31° 17' 54.8" N 92° 26' 23.5" W	Sand pile sample collected from foundry sand pile located on the east side of the north entrance bridge. Rationale: To determine if hazardous constituents are present on the pile.
RF-12-SP	Soil	START-procured laboratory	31° 17' 54.8" N 92° 26' 23.5" W	Sand pile sample collected from foundry sand pile located on the east side of the north entrance bridge. Rationale: To determine if hazardous constituents are present on the pile.

TABLE 3-1

EXPANDED SITE INSPECTION SAMPLES
RUSTON FOUNDRY
ALEXANDRIA, RAPIDES PARISH, LOUISIANA

Sample No.	Matrix	Laboratory	GPS Coordinates	Location/Rationale
VC-02-B	Soil	START-procured laboratory	31° 17' 57.4" N 92° 26' 18.2" W	Surface soil sample collected from vacant lot located at the southeast corner of 9th and Bogan Street. Rationale: Background sample.
VC~~A~~-01-B	Soil	START-procured laboratory	31° 17' 42.0" N 92° 26' 24.3" W	Surface soil sample collected from vacant lot located on Applewhite Street. Rationale: Background sample.
R01-01	Soil	START-procured laboratory	31° 17' 54.4" N 92° 26' 21.4" W	Soil sample collected from residential yard at 2407 Ruston Street (daycare). Rationale: To determine if hazardous constituents migrated offsite.
R02-02	Soil	START-procured laboratory	31° 17' 53.2" N 92° 26' 24.4" W	Soil sample collected from residential yard at 948 Bogan Street. Rationale: To determine if hazardous constituents migrated offsite.
R03-05	Soil	START-procured laboratory	31° 17' 51.6" N 92° 26' 20.0"W	Soil sample collected from residential yard at 2416 Ruston Street. Rationale: To determine if hazardous constituents migrated offsite.
R04-02	Soil	START-procured laboratory	31° 17' 50.3" N 92° 26' 23.0" W	Soil sample collected from residential yard at 2420 Ruston Street. Rationale: To determine if hazardous constituents migrated offsite.
R05-04	Soil	START-procured laboratory	31° 17' 50.4" N 92° 26' 22.0" w	Soil sample collected from residential yard at 2424 Ruston Street. Rationale: To determine if hazardous constituents migrated offsite.
R06-04	Soil	START-procured laboratory	31° 17' 49.7" N 92° 26' 20.2" W	Soil sample collected from residential yard at 2428 Ruston Street. Rationale: To determine if hazardous constituents migrated offsite.
R07-04	Soil	START-procured laboratory	31° 17' 48.1" N 92° 26' 22.1" W	Soil sample collected from residential yard at 2430 Ruston Street. Rationale: To determine if hazardous constituents migrated offsite.
R08-04	Soil	START-procured laboratory	31° 17' 47.9" N 92° 26' 21.1" W	Soil sample collected from residential yard at 1110 Applewhite Street. Rationale: To determine if hazardous constituents migrated offsite.

TABLE 3-1

EXPANDED SITE INSPECTION SAMPLES
RUSTON FOUNDRY
ALEXANDRIA, RAPIDES PARISH, LOUISIANA

Sample No.	Matrix	Laboratory	GPS Coordinates	Location/Rationale
R09-02	Soil	START-procured laboratory	31° 17' 47.0" N 92° 26' 21.1" W	Soil sample collected from residential yard at 1120 Applewhite Street. Rationale: To determine if hazardous constituents migrated offsite.
R10-04	Soil	START-procured laboratory	31° 17' 48.5" N 92° 26' 26.5" W	Soil sample collected from 2402 and 2407 12th Street (lot next to property). Rationale: To determine if hazardous constituents migrated offsite.
R11-01	Soil	START-procured laboratory	31° 17' 54.0" N 92° 26' 22.1" W	Soil sample collected from residential yard at 2402 Ruston Street. Rationale: To determine if hazardous constituents migrated offsite.
R12-02	Soil	START-procured laboratory	31° 17' 47.9" N 92° 26' 23.2" W	Soil sample collected from residential yard at 2407 12th Street. Rationale: To determine if hazardous constituents migrated offsite.
R12-02D	Soil	START-procured laboratory	31° 17' 47.9" N 92° 26' 23.2" W	Soil sample collected from residential yard at 2407 12th Street. Rationale: Duplicate sample of R12-02.
RF-01SD	Soil	START-procured laboratory	31° 17' 56.3" N 92° 26' 26.6" W	Sediment sample collected upstream of the Chatlin Lake Canal; northwest of the site. Rationale: To determine if hazardous constituents are present in the Chatlin Lake Canal; Background sample.
RF-02SD	Soil	START-procured laboratory	31° 17' 49.1" N 92° 26' 29.6" W	Sediment sample collected upstream of the Chatlin Lake Canal; southwest of the site. Rationale: To determine if hazardous constituents are present in the Chatlin Lake Canal; Background sample.
RF-03SD	Soil	START-procured laboratory	31° 17' 42.2" N 92° 26' 23.3" W	Sediment sample collected at the junction of the northwest and southwest water flow of the Chatlin Lake Canal, near the site. Rationale: To determine if hazardous constituents are present in the Chatlin Lake Canal.

TABLE 3-1

EXPANDED SITE INSPECTION SAMPLES
RUSTON FOUNDRY
ALEXANDRIA, RAPIDES PARISH, LOUISIANA

Sample No.	Matrix	Laboratory	GPS Coordinates	Location/Rationale
RF-04SD	Soil	START-procured laboratory	31° 17' 48.8" N 92° 26' 19.3" W	Sediment sample collected downstream of the Chatlin Lake Canal; before the bridge. Rationale: To determine if hazardous constituents are present in the Chatlin Lake .
RF-05SD	Soil	START-procured laboratory	31° 17' 49.8" N 92° 26' 19.8" W	Sediment sample collected downstream of the Chatlin Lake Canal; after the bridge. Rationale: To determine if hazardous constituents are present in the Chatlin Lake Canal.
RF-06SD	Soil	START-procured laboratory	31° 17' 47.7" N 92° 26' 10.9" W	Sediment sample collected downstream of the Chatlin Lake Canal; approximately within 0.25 mile from the PPE. Rationale: To determine if hazardous constituents are present in the Chatlin Lake Canal.

Key.

RF	Ruston Foundry
TSP	Total Suspended Particulates
START	Superfund Technical Assessment and Response Team
QA/QC	Quality Assurance/Quality Control
VC	Vacant
RF	Ruston
SLP	Slag Pile
SL	Slag/Soil
S	Soil
SP	Sand Pile
SD.	Sediment
PPE	Probable Point of Entry

4 Investigation Results

4.1 Previous Analytical Results

File information indicates that soil, sediment, drum and air sampling were performed previously at the Ruston Foundry site. Results of the laboratory analyses indicated the presence of volatile organic compounds (VOCs) in samples collected from the drums and metals, including mercury, in the soil, sediment and air samples (References 17 and 20).

Soil and drum samples were collected on June 5, 1990 by LDEQ-IASD. Analysis of the soil samples revealed a maximum lead concentration of 1,350 ppm. Analysis of sample of drum contents revealed concentrations of 35 ppm of toluene and 100 ppm of ethylbenzene (Reference 17).

Soil, sediment and air samples were collected on November 12, 1990 by TAT during the SA field activity. TAL metal analysis revealed elevated concentration levels of arsenic (110 ppm), chromium (230 ppm), cobalt (220 ppm), lead (120,000 ppm), mercury (1.8 ppm) and zinc (5,000 ppm) in the soil and sediment samples. Elevated concentration of lead (2,130 ppm), benzene (12.2 ppm), ethylbenzene (191 ppm), toluene (161 ppm), m-xylene (175 ppm) and o-xylene (429 ppm) were detected in the sludge samples collected from 21 of the 22 drums located on site. Air monitoring and sampling of the drum areas, away from the source area, were also conducted and no Total Compound List (TCL) volatiles were detected; however, the lead concentration of 0.0685 mg/m^3 in the on-site downwind sample was three times higher than the 0.0181 mg/m^3 lead concentration in the upwind background. The exact station location of the air monitors and background locations for soil samples are unknown (Reference 17).

4.2 Expanded Site Inspection Analytical Data Results

Air, soil, sediment, slag pile and foundry sand pile samples were collected and analyzed in accordance with the methods described in Section 3. Analytical results for all samples were compared to background sample results and sample quantitation limits (SQLs) to determine whether observed contamination or an observed release could be documented (References 29, 30, 31, 32 and 33).

4.2.1 Air Samples

A total of seventeen air samples were analyzed for TAL analysis. Fourteen on-site and two off-site samples were collected over a twelve hour period on two consecutive days (References 8 and 24). All samples except for RFA4, contained concentration levels of TAL metals that

were greater than three times their background concentrations and their respective SQLs. Lead was detected on samples RFA02 (0.0386 micrograms per cubic meter ($\mu g/m^3$)) on the first day of sampling with a background sample concentration of 0.0051 $\mu g/m^3$. Lead was also detected in samples RFA10(0.0329 $\mu g/m^3$) and RFA15 (0.0210 $\mu g/m^3$) on the second day of sampling with a background sample concentration of 0.0047 $\mu g/m^3$. Manganese was detected in samples RFA02 (0.0587 $\mu g/m^3$) and RFA07 (0.0431 $\mu g/m^3$) on day one with a background sample concentration of 0.0126 $\mu g/m^3$ and RFA10 (0.0478 $\mu g/m^3$) on day two with a background sample concentration of 0.011 $\mu g/m^3$. Copper was detected in samples RFA04 (0.0730 $\mu g/m^3$) and RFA12 (0.0948 $\mu g/m^3$) with a background sample concentration of 0.023 $\mu g/m^3$. Zinc was detected in samples RFA10, RFA11, RFA12 and RFA13 with the highest concentration of 0.892 $\mu g/m^3$, with a background sample concentration of 0.158 $\mu g/m^3$. Sample concentration for all zinc results were qualified as estimated, biased low (JL) (Tables 4-1, Figure 6, References 13 and 14).

4.2.2 Soil Samples

Soil samples were collected both on-site and from residential yards off-site (Reference 8).

4.2.2.1 On-Site Soil Samples

Three surface soil samples and a duplicate were collected on-site during the ESI fields activities. Arsenic and chromium were detected in samples RF-02SL and RF-07S, with the highest concentration detected at 84.8 ppm and 129 ppm, respectively. The background sample concentrations for arsenic was 5.5 ppm and 17.2 ppm for chromium. Copper and lead were detected in all samples with the highest concentration detected for copper was at 4,300 ppm and 1731 ppm for lead, with background sample concentrations of 48 ppm for copper and 74.2 ppm for lead. Zinc was detected in sample RF-01S at the concentration of 623.8 ppm with a background sample concentration of 130 ppm (Table 4-2, Figure 6, References 9 and 10).

Four slag pile samples were collected. Lead was detected in sample RF-14-SLP with the highest concentration of 23,692 ppm and with a background sample concentration of 48 ppm. Arsenic, chromium, copper and nickel were detected in all samples with concentrations for arsenic ranging from 26.2 to 76.2 ppm with a background sample concentration of 5.5 ppm, chromium from 77.3 to 156 ppm with a background sample concentration of 17.2 ppm, copper at 314 to 24,600 ppm with a background sample concentration of 48 ppm and nickel at 64.8 to 86.2 ppm with a background sample concentration of 19.4 ppm. Zinc was detected in sample RF-13-SLP at 3,185 ppm and in sample RF-14-SLP at 10,615 ppm with a background sample concentration of 130 ppm (Tables 4-3, Figure 6, References 9 and 10).

The two foundry sand piles located on the bank of Chatlin Lake Canal, on the northern entrance bridge, were sampled during the ESI field activities. Copper was detected in sample RF-08-SP (181 ppm), three times greater than the background concentration of 48 ppm (Tables 4-4, Figure 6, References 9 and 10).

4.2.2.2 Residential Soil Samples (Off-site)

Twelve soil samples and a duplicate sample were collected in the residential yards of properties across from the Chatlin Lake Canal. Arsenic, chromium, copper, lead and zinc were detected on the samples collected. The highest concentration of arsenic was at 87.5 ppm with a background sample concentration of 5.5 ppm, copper at 5,790 ppm with a background sample concentration of 48 ppm, lead at 1,200 ppm with a background sample concentration of 74.2 ppm and zinc at 1,260 ppm with a background sample concentration of 130 ppm. All five metals were detected in sample R10-04. The highest concentration of chromium was in sample R05-04 (55.3 ppm) with a background sample concentration of 17.2 ppm (Tables 4-5, References 11 and 12, Figure 7).

4.2.3 Sediment Samples

Four sediment samples and a duplicate sample were collected from the Chatlin Lake Canal. No sample results were above three times the background sample concentrations (Figure 7, References 9 and 10). Therefore, no samples met the observed release criteria.

4.2.4 TCLP Analytical Results

During the ESI field activities, START collected two samples, RF-01S (surface soil sample on site) and RF-14SLP (slag pile sample). These samples were analyzed for TCLP metals for removal action information purposes. All target analyte results were not detected on both samples except for lead in RF-14-SLP. The lead concentration of 6.15 milligrams per liter (mg/L) in sample RF-14-SLP is greater than the maximum contaminant concentration of 5 mg/L established by the Resource Conservation and Recovery Act (RCRA) of 1976 (Tables 4-6, Figure 7, References 15 and 16).

TABLE 4-1

Analytical Results for Air Sample
Ruston Foundry
Alexandria, Rapides Parish, Louisiana

Station Number	RFA01	RFA01 (3x)	RFA02		RFA04		RFA07		RFA08	
PARAMETER	**Background**	**3x Background**	**Conc.**	**SQL**	**Conc.**	**SQL**	**Conc.**	**SQL**	**Conc.**	**SQL**
Copper	0.023	0.069	0.053	0.014	0.073	0.013	0.085	0.011	0.103	0.010
Lead	0.0051	0.0153	0.039	0.0017	0.0078	0.0015	0.031	0.0013	0.0066	0.0012
Manganese	0.0126	0.0378	0.059	0.0084	0.0197	0.0075	0.043	0.0065	0.018	0.006
Zinc	0.505 JL	1.52 JL	1.06JL	0.011	0.83 JL	0.010	0.78 JL	0.0086	0.38 JL	0.008

TABLE 4-1

Analytical Results for Air Sample
Ruston Foundry
Alexandria, Rapides Parish, Louisiana

Station Number	RFA09	RFA09 (3x)	RFA10		RFA11		RFA12		RFA13	
PARAMETER	Background	3x Background	Conc	SQL	Conc.	SQL	Conc.	SQL	Conc.	SQL
Copper	0.0232	0.0696	0.038	0.013	0.013	0.012	0.095	0.012	0.17	0.011
Lead	0.0047	0.0141	0.033	0.0015	0.0074	0.0014	0.0065	0.0014	0.0082	0.0013
Manganese	0.011	0.033	0.048	0.0075	0.018	0.0071	0.013	0.0070	0.013	0.011
Zinc	0.158 JL	0.474 JL			0.67 JL	0.0094	0.53 JL	0.0092	0.63 JL	0.0088

TABLE 4-1

Analytical Results for Air Sample
Ruston Foundry
Alexandria, Rapides Parish, Louisiana

Station Number	RFA09	RFA09 (3x)	RFA15		RFA16	
PARAMETER	**Background**	**3x Background**	**Conc.**	**SQL**	**Conc.**	**SQL**
Copper	0.0232	0.0696	0.066	0.0085	0.20	0.012
Lead	0.0047	0.0141	0.020	0.0010	0.0063	0.0014
Manganese	0.011	0.033	0.023	0.0051	0.015	0.0070
Zinc	0.158 JL	0.474 JL	0.17 JL	0.0068	0.26 JL	0.0092

All concentrations are expressed in micrograms per cubic meter.
Key: Conc = Concentration
SQL = Sample Quantitation Limit
Shaded areas denote that concentration met Observed Contamination.
JL = estimated concentration, low bias

TABLE 4-2

Analytical Results for On-Site Surface Soil Samples
Ruston Foundry
Alexandria, Rapides Parish, Louisiana

Station Number	VC-02B	VC-02B (3x)	RF-01S		RF-02SL		RF-07S	
PARAMETER	Background	3x Background	Conc.	SQL	Conc.	SQL	Conc.	SQL
Arsenic	5.5	16.5	14.7	2.27	84.8	2.12	42.6	2.24
Chromium	17.2	51.6	28.4	2.27	129	2.12	69.3	2.24
Copper	48	144	394	5.68	4300	5.30	557	5.60
Lead	74.2 JK	226.2 JK	2250 JK	0.68	1450 JK	0.64	403 JK	0.67
Zinc	130	390	811 JK	4.54	260 JK	4.24	318 JK	4.48

All concentrations are expressed in mg/Kg or ppm.
Key.
Conc = Concentration
SQL = Sample Quantitation Limit
JK = Estimated concentration, assuming unknown bias
( ) = Adjusted concentration for "J" data utilizing *Qualified Data to Document an Observed Release* (Reference 16)
Shaded areas denote that concentration met Observed Release

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TABLE 4-3

Analytical Results for Slag Pile Samples
Ruston Foundry
Alexandria, Rapides Parish, Louisiana

Station Number	VC-02B	VC-02B (3x)	RF-05-SLP		RF-06-SLP		RF-13-SLP		RF-14-SLP	
PARAMETER	**Background**	**3x Background**	**Conc.**	**SQL**	**Conc.**	**SQL**	**Conc.**	**SQL**	**Conc.**	**SQL**
Arsenic	5.5	16.5	29.6	2.08	26.2	2.14	76.2	2.23	30.8	2.47
Chromium	17.2	51.6	77.3	2.08	87.5	2.14	156	2.23	126	2.47
Copper	48	144	320	5.20	314	5.35	10900	5.58	24600	6.17
Lead	74.2 JK	222.6 JK	279 JK	0.62	195 JK	0.64	974 JK	0.67	30800 JK	0.74
Nickel	19.4	58.2	86.2	8.32	152	8.56	177	8.92	64.8	9.88
Zinc	130	390	219 JK	4.16	152 JK	4.28	4140 JK	4.46	13800 JK	4.94

All concentrations are expressed in mg/Kg or ppm.

Key:

Conc = Concentration
SQL = Sample Quantitation Limit
JK = Estimated concentration, assuming unknown bias
( ) = Adjusted concentration for "J" data utilizing *Qualified Data to Document an Observed Release* (Reference 16).
Shaded areas denote that concentration met Observed Release

TABLE 4-4

Analytical Results for Foundry Sand Sample
Ruston Foundry
Alexandria, Rapides Parish, Louisiana

Station Number	VC-02B	VC-02B (3x)	RF-08SP	
PARAMETER	**Background**	**3x Background**	**Concentration**	**SQL**
Copper	48	144	181	5.48

All concentrations are expressed in mg/Kg or ppm.

Key:

SQL = Sample Quantitation Limit
JK = Estimated concentration, assuming unknown bias
Shaded area denotes that concentration met Observed Release

TABLE 4-5

Analytical Results for Residential Soil Samples (Off-site)
Ruston Foundry
Alexandria, Rapides Parish, Louisiana

Station No.	VC-02B	VC-02B (3x)	R02-02		R04-04		R05-04		R10-04	
PARA-METER	Background	3x Background	Conc	SQL	Conc	SQL	Conc	SQL	Conc	SQL
Arsenic	5.5	16.5	15.1	2.53	35	2.33	22.9	2.50	87.5	2.36
Chromium	17.2	5106	26.7	2.53	52	2.33	55.3	2.50	50.3	2.36
Copper	48	144	487	6.33	64.3	5.83	61.5	6.25	5790	5.90
Lead	74.2 JK	222.6 JK	815 JK	0.76	388 JK	0.70	334 JK	0.75	1560 JK	0.71
Zinc	130	390	963	5.06	298	4.66	288	5.00	1260	4.72

TABLE 4-5

Analytical Results for Residential Soil Samples (Off-site)
Ruston Foundry
Alexandria, Rapides Parish, Louisiana

Station No.	VC-02B	VC-02B (3x)	R11-01		R12-02	
PARAMETER	**Background**	**3x Background**	**Conc**	**SQL**	**Conc**	**SQL**
Arsenic	5.5	16.5	6.2	2.34	8.3	2.52
Chromium	17.2	5106	19.3	2.34	24.8	2.52
Copper	48	144	43.3	5.85	31.3	6.30
Lead	74.2 JK	222.6 JK	252 JK	0.70	559 JK	0.76
Zinc	130	390	408	4.68	192	5.04

All concentrations are expressed in mg/Kg or ppm.

Key:

Conc = Concentration
SQL = Sample Quantitation Limit
JK = Estimated concentration, assuming unknown bias
( ) = Adjusted concentration for "J" data utilizing *Qualified Data to Document an Observed Release* (Reference 16).
Shaded areas denote that concentration met Observed Release

TABLE 4-6

Analytical Results for Residential Soil Samples (Off-site)
Ruston Foundry
Alexandria, Rapides Parish, Louisiana

	Maximum Contaminant Concentration	RF-01S	RF-14-SLP
Arsenic	5	ND	ND
Barium	100	ND	ND
Cadmium	1	ND	ND
Chromium	5	ND	ND
Lead	5	3.69	6.15
Mercury	0.2	ND	ND
Selenium	1	ND	ND
Silver	5	ND	ND

All concentrations are expressed in mg/L.

Note: The RCRA maximum contaminant concentration can be found in the 40 CFR Part 261.24.

5 Source and Pathway Assessment

This section characterizes the sources and environmental pathways and associated targets of potential contaminant migration from the Ruston Foundry site.

5.1 Source Characterization

5.1.1 On-Site Contaminated Soil

The on-site contaminated soil is located within the fenced area of the Ruston Foundry site. It is concentrated mainly around the now demolished main foundry, equipment and storage sheds, work shop and machine shop buildings (Figure 2). Only the concrete foundations of some of these buildings remain and are not included on the source area based on the HRS Final Rule that areas covered by a permanent or otherwise maintained, essentially impenetrable material should be excluded from evaluation. The area of 40,845 square feet (ft^2)for the on-site contaminated soil was calculated using the AutoCAD Version 13 0 graphics software. Scraps of metal shavings, foundry sand and asbestos wastes were scattered throughout this area. This source is attributable to the foundry business from 1908 to 1985, based on the analytical results from samples collected during the two previous site assessments. The site is vegetated and enclosed by fencing; however, fencing has been damaged allowing public access to the site. The source is not covered by liquid nor surrounded by engineered wind break or any containment that will prevent particulate migration. Particulates associated with the contaminated soil could likely become suspended in the atmosphere. Analytical results indicate suspended particulates and fall-out meeting observed release criteria in air and off-site soil samples in an extended area of the site (Figure 8, References 1, 6, 10 and 17)

5.1.2 Residential Contaminated Soil

The source is located in the residential yards surrounding the Ruston Foundry site on Ruston, Bogan, Applewhite and 12th Streets These residential homes are located north, east and south of the facility, across Chatlin Lake Canal. The source type is contaminated soil attributable to the foundry business. Residential soil samples that were collected and analyzed revealed metal contamination at concentrations that met the observed contamination criteria. Deposition of contaminated particulate from the site to the residential yards via air migration over time was also demonstrated based on the analytical results. The area of observed contamination, 56,286 ft^2 was calculated using the AutoCAD Version 13.0 graphics software. The area was delineated by drawing a line and connecting the outermost soil samples that met observed contamination criteria. Areas that are covered by a permanent or otherwise maintained impenetrable material (house) were excluded from evaluation (Figures 2 and 8, References 1, 7 and 12).

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5.1.3 Piles

Five piles of slags are located on site. Two slag piles are located on the bank of Chatlin Lake Canal, near the southern entrance bridge with the dimension of each pile approximately 25 feet by 6 feet by 20 feet. Three additional slag piles are located on-site. The piles are composed of soil, metal shavings and slag. The exact origin and date of deposition is unknown. No containment structures were observed during the ESI field activities. Analytical results of samples collected by START indicated the presence of metals in concentrations qualifying as observed contamination (Figure 2, References 1, 6, 10, 12 and 17).

5.2 Ground Water Pathway

5.2.1 Ground Water Characteristics

From youngest to oldest, the geological units nearest the surface of the site include the Catahoula Formation, Vicksburg Group, Jackson Group, Cockfield Formation, Cook Mountain Formation, Sparta Formation, Cane River Formation and the Sabine Group (Reference 35).

The site is situated on the Catahoula Formation. The only part of the Catahoula Formation found at the surface in Rapides Parish is the upper one hundred feet of siltstones and intercalated sand lentils. It contains abundant petrified wood fragments, root tubes, fossilized grasses, and leaf-bearing beds in the silty clays. Catahoula lies unconformably on truncated older sediments and the upper limits have never been defined in Rapides Parish (Reference 35).

The Vicksburg-Jackson underlies the Catahoula Formation. Its brackish-water clays and silts are from 500 to 700 feet thick in the latitude of Rapides and Avoyelles Parish and can be separated only on the basis of faunal content. The Vicksburg consists of sandy shales and lignitic clays on the surface. On the surface, the Jackson's brackish-water clays are similar to those of the Vicksburg's. The Jackson group is separated from the Vicksburg by a thin group of marine upper Jackson Danville Landing clays. Below the upper Jackson, fossils on the surface are thick brackish-water shales and sands. The uppermost layer Jackson's fossils occur in a group of very plastic nonporous clays which maintain a fairly constant thickness of 75 to 100 feet in the surface and subsurface (Reference 35).

The Cockfield-Cook Mountain Formation underlies the Vicksburg-Jackson. The thickness of the Cockfield-Cook Mountain units varies from 700 feet to nearly 1000 feet, with the thickest part of the section at the point where the channel sands have been replaced by brackish-water beds. The surface of the Cockfield Formation consists of 500 to 600 feet of fluvial sand and shales; it is underlain by the 200-foot Cook Mountain section, the upper part consisting of predominantly brackish-water and the lower part predominantly marine (Reference 35).
The Sparta-Cane River Formation underlie the Cockfield-Cook Mountain Formations. It is from 850 to 1200 feet thick in the subsurface in Central Louisiana and exhibits lithologic variations similar to those of the Cockfield-Cook Mountain unit. The Sparta Formation exposed at the surface is made up a group of channels sands, silts, lignitic clays, and lignites which are overlain by the Cook Mountain. The Sparta feathers out seaward and is replaced by brackish-

water beds. The Cane River Formation consists of brackish-water, marl and "blanket" sands and shales (Reference 35).

The Sabine Formation underlies the Sparta-Cane River Formations. It has a reported thickness of 3000 feet. The first 100 feet of the section is a massive sand known as the "Wilcox" sand and the remainder of the upper 600 feet is of brackish-water clays and "blanket" sands. These beds are underlain by 900 feet of massive channel sands with thin shale breaks beneath which is another 600-foot section of "blanket" sands and clays (Reference 35).

Ground water is the sole source for drinking water in Alexandria, Pineville and the neighboring communities. Ground water is obtained primarily from the Catahoula Formation from the Red River Alluvial, Williamson Creek and Carnahan Bayou aquifers. The Red River Alluvial Aquifer represents the shallowest known aquifer that serves as drinking water source for the citizens of Rapides Parish. The aquifer is estimated to begin at approximately 63 feet below ground surface and continues for an estimated 50 to 100 feet. The Williamson Creek Aquifer underlies the Red River Alluvial and the most shallow known point of this aquifer is at 180 feet below ground surface and is estimated to be approximately 400 feet thick. The Carnahan Bayou Aquifer lies beneath the Williamson Creek Aquifer. The most shallow known point is 204 feet below ground surface and is 1073 feet thick (Reference 20 and 37).

There are no solution cavities or evidence of karst terrain reported at this location. The net precipitation for the study area is 31.19 inches (References 35 and 36).

5.2.2 Ground Water Target Receptor

The main source of drinking water in Rapides Parish is obtained from aquifers within the Catahoula Formation (References 20, 35 and 37).

The Louisiana Department of Transportation and Development (LDOTD) water well search identified three active drinking water wells within a 1-mile radius of the site. The nearest well identified is a municipal supply well serving the City of Alexandria which is located approximately 0.6 miles southeast of the site and completed the Carnahan Bayou Aquifer at the depth of 723 feet. Another public supply ground water well is located 0.8 miles north of the site and it obtains ground water from the same aquifer at the depth of 1190 feet. The nearest domestic ground water well is located 0.9 miles west of the site and obtains ground water from the Williamson Creek Aquifer with a depth of 285 feet serving 2.73 people. A total of 51 additional ground water wells (27 domestic and 21 public supply) have been identified within 1 to 4 miles of the site. Within the 4-mile radius distance, a total of 76.44 people are served by domestic wells and 27, 441 people are served by municipal wells (References 20, 37 and 38).

The site is within the Alexandria Wellhead Protection area (Reference 39). Ground water is also used for agricultural and industrial purposes in Rapides Parish (Reference 40).

No ground water samples are known to have been collected from wells surrounding the site and an observed release cannot be documented on the ground water pathway. Due to the depth

and distance to the wells, it is likely that the Catahoula Formation Aquifer has been adversely affected by the operations of the Ruston Foundry site. Due to the lack of nearby target receptors and no observed release, the ground water pathway is not a major pathway of concern.

5.3 Surface Water Pathway

5.3.1 Surface Water Characteristics

Chatlin Lake Canal is a fresh water river that borders the site on the north, east and south. The areas of contamination on-site are not contained to prevent migration of site contaminants to surface water via overland flow. The probable point of entry (PPE) has been considered to be any point along of the canal that borders the site (References 6 and 20). The entire 15-mile target distance limit (TDL) is within the Chatlin Lake Canal (References 20 and 45). The canal is considered to be representative of a moderate to large stream and a flow rate of 1,000 cubic feet per second (cfs) was assigned (References 1 and 20).

The drainage area is estimated to be equivalent to four times the area of the site, approximately 20 acres. This estimate was based on the uplands that surround the site (Reference 20). The two-year, 24-hour rainfall for the area is approximately 4.5 inches (Reference 20). The annual precipitation is 58.52 inches (Reference 47).

The clayey soils of the Moreland Series represent the soil type for the area of the site. The soils are fine-textured with very low infiltration rates (References 20 and 40).

The Ruston Foundry site lies in an A-E Flood Hazard Area. It is situated within a 100-year flood plain (Reference 41).

5.3.2 Surface Water Receptors

There are no surface water intakes located within the 15-mile TDL, as all public water supply is obtained from ground water wells (References 20, 37 and 45).

Chatlin Lake Canal is primarily used as a drainage canal for the City of Alexandria and its recreational use is limited. Fishing was documented during the site reconnaissance conducted on April 21, 1998; however, the annual poundage of aquatic human food chain organisms caught and consumed could not be documented (References 6, 20, 42 and 43). It will be assumed that at least one pound of human food chain, aquatic organisms are caught and consumed annually from Chatlin Lake Canal (Reference 1).

No rare, threatened or endangered species or critical habitats exist within the 15-mile TDL as reviewed by the State of Louisiana Department of Wildlife and Fisheries (LDWF) Habitat Section of the Fur and Refuge Division (Reference 44).

0.92 miles of wetland frontage exists within the 15-mile TDL of the Chatlin Lake Canal (Reference 45).

Based on the analytical data obtained during the ESI field activities, no observed release of hazardous constituents can be documented on sediment samples collected within the study area of the Chatlin Lake Canal (Appendix F, Reference 10).

Due to lack of target receptors and no observed release to the Chatlin Lake Canal, the surface water pathway is not a major pathway of concern.

5.4 Soil Exposure Pathway

5.4.1 Resident Threat Population

The site is inactive and has been abandoned since 1985. No employee nor resident live on site (References 6 and 17).

Chemical analyses of soil samples collected from nearby residences to the north, east and south across the Chatlin Lake Canal indicated the presence of Level I concentrations of arsenic at 2420 Ruston Street, 2424 Ruston Street and in an empty lot next to 2402 and 2407 12th Street (Table 4-8, Figure 7, References 2, 12 and 22). The Level I concentration was based on the cancer risk benchmark from the Superfund Chemical Data Matrix (SCDM) (Reference 2). The residence at 2424 Ruston Street is also a daycare center with six children under the age of seven (Appendix E). The number of Level I targets is calculated to be 11.46 (2.73 people per household and 6 daycare children) (Reference 38).

Level II concentrations of chromium, copper, lead and zinc were detected at the following residential yards: 948 Bogan Street, 2402 Ruston Street and 2407 12th Street (References 2, 12 and 22, Table 4-8). The Level II concentration was based from the cancer risk benchmark from the SCDM (Reference 2). The number of Level II targets is calculated to be 8.19 (2.73 people per household (3 houses)) (Reference 38).

All samples collected from the residential yards were within 200 feet of the residential structures (Figure 5).

No commercial silviculture, agriculture, livestock production, or grazing were documented at the site (Reference 20). Terrestrial sensitive environments were not identified at the site (Reference 44).

5.4.2 Nearby Population Threat

The site is not securely fenced and can be accessed by the public (References 6 and 17). Attractiveness/Accessibility is evaluated as "moderately accessible" with some public recreation use (References 3 and 6). The population within the target distances was determined by using the EPA Geological Exposure Modeling System (GEMS) database presented in Table 5-1 (Reference 17). Excluding Level I and Level II targets previously identified, 1158 individuals

were identified within the 0- to 1/4-mile radius, 1,750 individuals within the 1/4- to 1/2-mile radius, and 6,111 individuals within the 1/2- to 1-mile radius. The total population, including the Level I and II population, within the 0- to 1-mile radius is 9,039 individuals (Reference 20).

Table 5-1 Population by Distance Ring Ruston Foundry Alexandria, Rapides Parish, Louisiana	
Distance Categories	**Population**
0 to 1/4 mile	1,178
> 1/4 to 1/2 mile	1,750
>1/2 to 1 mile	6,111
>1 to 2 miles	21,047
>2 to 3 miles	14,681
>3 to 4 miles	19,597

Reference : 17

5.5 Air Pathway

5.5.1 Air Characteristics

During the ESI site reconnaissance conducted on March 2, 1998, air monitoring was performed using a toxic vapor analyzer (TVA). No organic vapors were detected above background concentrations (Reference 6).

The sources are not contained. Particulate migration exists as revealed by the analytical results of the air samples collected during the ESI field sampling activities during the week of April 20, 1998. An observed release to the air pathway has been documented in samples RFA02, RFA04, RFA07, RFA08, RFA10, RFA11, RFA12, RFA13, RFA15 and RFA16. Chemical analyses indicated the presence of Level II concentrations of copper, lead, manganese and zinc at air sampling stations RFA02, RFA04 and RFA08 on day 1 and RFA10, RFA11, RFA12, RFA13, RFA15 and RFA16 on day 2 (Figure 6, References 6, 8 and 14).

5.5.2 Air Receptors

The nearest resident is located approximately 80 feet northwest of the site, across from the Chatlin Lake Canal (Figure 4, Reference 25).

The area within the 4-mile radius of the site is urban, within the city limits of Alexandria (Reference 5). The population within the 4-mile radius is presented on Table 5-1 (Reference 17 and 20).

Schools identified within the 1-mile radius of the site include: Peabody Elementary, 325 students; Peabody Magnet School, 820 students; Jones Street Junior High, 425 students; Bolton High School, 1,100 students; South Alexandria 6th Grade School, 307 students and Alma Redwine Primary School, 250 students. There are a number of other schools situated within the 1- to 4-miles radius from the site (References 5 and 46). However, the student enrollment is unknown at this time.

There are no rare, threatened or endangered species or critical habitats documented within the 4-mile radius (Reference 44). Wetland frontage for the 4-mile radius is presented on Table 5-2 (Reference 45).

A recreation park, Cheatham Park, is located approximately 0.22 miles southeast of the site (Reference 46). There is no commercial silviculture within 1/2- mile radius of the site (Reference 6).

Table 5-2

Wetland Frontage within the 4-Mile Radius of Ruston Foundry Alexandria, Rapides Parish, Louisiana

Distance Ring (Miles)	Wetland Frontage (Acres)
0 to 1/4	0
>1/4 to ½	0
>½ to 1	0
>1 to 2	210
>2 to 3	680
>3 to 4	850

Reference: 45

6 Project Management

Section 6 lists E & E personnel associated with the ESI and the community relations staff contacts for information pertaining to this site.

6.1 Key Personnel

Alma Rillera of E&E, Inc. was the project manager for the completion of the ESI. Her responsibilities included preparation and implementation of the work plan and the completion of the report. She was accompanied on field activities by Anan Hammad, Kristine Lloyd, Ben Martich, Dean Rotan and Andrea West. Kristine Lloyd assisted in the collection of information and access during the site reconnaissance conducted on March 2 and 3, 1998. Anan Hammad and Dean Rotan were responsible for air sampling. Ben Martich was responsible for collection of soil samples and the operation of the XRF instrument. Andrea West was responsible for implementing the Site Safety Plan and soil sample collection. All team members assisted in the documentation procedure and packaging of the samples. Bill Rhotenberry, EPA Site Assessment Manager (SAM), Brenda Nixon-Cook, EPA Region 6 NPL Coordinator and Keith Horn, LDEQ-IASD, were on site at the time of the ESI field sampling activities.

6.2 Community Relations

Persons requesting site information have been instructed to submit a Freedom of Information Act Request. Requests are to be addressed to:

Freedom of Information Office
EPA Region 6
1445 Ross Avenue
Dallas, Texas 75202-2737

7 Summary

The Ruston Foundry site is an inactive and abandoned foundry situated on 4.6 acres of land within the city limits of Alexandria. The property was first utilized in 1908 but has been inactive since 1985 due to adjudication by the Rapides Parish Tax Assessor's office for unpaid taxes. The company engaged in foundry and machine shop business and in the manufacturing, prefabrication and repair of articles of steel, iron and other metals.

The site is bordered on the north, east and south by the Chatlin Lake Canal which flows towards the southeast, and an old railroad track to the west. Houses surround the site to the north, east and west, across the Chatlin Lake Canal. The site is accessible to the public due to missing front gate and damaged fencing.

The LDEQ-IASD conducted a site investigation in June 1990 and conducted soil and drum sampling. Analysis of the soil samples revealed lead at a concentration of 1,350 ppm. LDEQ referred the site to the EPA as a candidate for an emergency response action. On October 1990, the EPA ERB tasked TAT to conduct a SA. On November 1990, TAT conducted a SA and on-site soil, drum and air sampling were conducted. Arsenic, chromium, cobalt, lead, mercury and zinc were detected in soil samples three times above the background concentration. Lead, benzene, ethylbenzene, toluene, m-xylene and o-xylene were detected in the drum samples three times above the background concentration. Lead was detected in an air sample three times above background concentration. On February 1994, TAT conducted another SA to determine the type and volume of materials for removal information purposes.

On March 1998, START conducted a site reconnaissance and during the week of April 21, 1998, ESI field activities were conducted. START documented source data, target receptor data and collected samples for chemical analyses. Source samples, sediment samples from Chatlin Lake Canal, residential yard samples and air samples were collected this period. Analytes associated with the sources include arsenic, chromium, copper, lead and zinc meeting observed contamination criteria. The same contaminants were detected in the residential yard samples. Analyses of the air samples indicated the presence of copper, lead, manganese and zinc meeting the observed release criteria. No contaminants were detected three times above the background concentration for the sediment samples.

The pathways of concern for HRS evaluation include the Soil Exposure and the Air Migration Pathways. The Soil Exposure Pathway is a concern due to the presence of observed contamination in five of the residences sampled. Level I concentration of arsenic was detected in two residential yards, with one also being a daycare center for six children under the age of seven. Level II concentrations of chromium, copper, lead and zinc were detected on three residential yards. All samples from the residential yards were collected from within 200 feet of the residential structures.

The Air Migration Pathway is a concern due to the documented observed release in the three air samples on day 1 and six air samples on day 2. Chemical analyses indicate the presence of Level II concentrations of copper, lead, manganese and zinc. The sources are not contained and particulate migration exists as documented by the analytical results of the air samples. Within a 1/4- mile radius of the site, there are two daycare centers. Within the 1/2-mile radius from the site, there is a recreational park. Six schools exist within the 1-mile radius.

Based on the available data, it appears that Ruston Foundry is an eligible candidate for placement onto the National Priority List (NPL).

8 References

1. Hazard Ranking System; Final Rule. 40 CFR Part 300, Part II, Environmental Protection Agency. Vol. 55. No. 241.

2. Superfund Chemical Data Matrix (SCDM). Appendices B-1, B-2, and C. June 1996.

3. Hazard Ranking System Guidance Manual. United States Environmental Protection Agency, Office of Solid Waste and Emergency Response. Publication 9345.1-07. PB92-963377. EPA 540-R-92-026. November 1992.

4. United States Environmental Protection Agency. Guidance for Performing Site Inspection Under CERCLA. Office of Emergency and Remedial Response. Publication 934.1-05. EPA/540-R-92-021. PB92-9963375. September 1992.

5. U.S. Geological Survey. 7.5-Minute Series Topographic Maps of Louisiana. Alexandria, 1972, Photorevised 1992; Cheneyville, 1972, Photoinspected 1978; Woodworth East, 1972, Photorevised 1992; Rapides, 1972, Photorevised 1992; Latanier, 1972, Photorevised 1993; Libuse, 1972, Photorevised 1993.

6. Ecology and Environment, Inc., (E & E) Logbook: Ruston Foundry. LAD985185107. February 12, 1998.

7. Ecology and Environment, Inc., (E & E) Logbook: Ruston Foundry Soil Sampling Logbook LAD985185107. April 21, 1998.

8. Ecology and Environment, Inc., (E & E) Logbook: Ruston Foundry Air Sampling Logbook LAD985185107. April 21, 1998.

9. Ecology and Environment, Inc., (E & E) Data Quality Assurance Review. Ruston Foundry. SDG/Project No. 4587 Soil. Prepared by Alma Rillera. May 26, 1998.

10. PDP Analytical Services. Chemical Data Package, Project No. 048701, Episode No. 4587 Soils. April 25, 1998.

11. Ecology and Environment, Inc., (E & E) Data Quality Assurance Review. Ruston Foundry. SDG/Project No. 4579. Prepared by Alma Rillera. May 14, 1998.

12. PDP Analytical Services. Chemical Data Package, Project No. 048701, Episode No. 4579. April 23, 1998.

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Based on the available data, it appears that Ruston Foundry is an eligible candidate for placement onto the National Priority List (NPL).

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2. Superfund Chemical Data Matrix (SCDM). Appendices B-1, B-2, and C. June 1996.

3. Hazard Ranking System Guidance Manual. United States Environmental Protection Agency, Office of Solid Waste and Emergency Response. Publication 9345.1-07. PB92-963377. EPA 540-R-92-026. November 1992.

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Reference 31

RECORD OF COMMUNICATION

CONTRACT/PROGRAM: 68-W6-0013	
TDD#: S06-99-07-007	**PAN#:** 092710SAXX
CONVERSATION WITH: Thurman Kelly	**DATE:** October 26, 1999
	TIME: 10 50 a m.
TITLE: Water Superintendent	
COMPANY: City of Pineville	
ADDRESS: 405 Sanders Street Pineville, Louisiana 71360	[x] **ORIGINATOR PLACED CALL** [ ] **ORIGINATOR RECEIVED CALL**
PHONE: 318-449-5688	
SUBJECT: Number of Persons served by Pineville Water Department	

NOTES: START Carson called to verify that 23,000 is the number of persons served (from previous communication) Mr. Kelly verified that there are 5300 residential accounts and assuming 4 persons per household, 23,000 persons are served.

ACTION

[ ] **FILE:**	**CONTRACT REPRESENTATIVE:** Jon Rinehart
[ ] **TICKLER FILE:**	**TITLE:** Site Assessment Manager
[ ] **FOLLOW-UP BY:**	**ORIGINATOR:** Maggie Carson
[ ] **DISTRIBUTION:**	**TITLE:** Team Leader

Reference 32

COUNTY	TRACT	BG	RING	POP	AFACT	RING TOTAL
22079	120	1	0 25	187	0.154	
22079	120	2	0.25	386	0 237	
22079	120	3	0.25	202	0.468	
						775
22079	119	1	0.5	178	0.144	
22079	120	1	0 5	659	0 541	
22079	120	2	0.5	758	0.466	
22079	120	3	0.5	211	0.488	
22079	121	3	0.5	49	0.055	
22079	128	2	0.5	118	0.303	
						1973
22079	111	4	1	58	0.051	
22079	119	1	1	893	0.724	
22079	119	2	1	48	0.302	
22079	120	1	1	371	0.305	
22079	120	2	1	483	0 297	
22079	120	3	1	19	0 044	
22079	121	1	1	540	1	
22079	121	2	1	592	0.485	
22079	121	3	1	723	0.817	
22079	121	5	1	486	1	
22079	122	1	1	592	0.613	
22079	126	1	1	357	0.486	
22079	128	1	1	146	0.292	
22079	128	2	1	272	0.697	
22079	129	1	1	107	0.063	
22079	129	2	1	1182	0.725	
						6869
22079	110	1	2	1071	1	
22079	110	3	2	967	0.761	
22079	110	4	2	671	1	
22079	111	1	2	103	0.367	
22079	111	2	2	503	0.565	
22079	111	3	2	239	1	
22079	111	4	2	1090	0.949	
22079	117	2	2	552	0.825	
22079	117	3	2	443	0 797	
22079	118	1	2	257	1	
22079	119	1	2	162	0.131	
22079	119	2	2	111	0.698	
22079	121	2	2	629	0.515	
22079	121	3	2	113	0.128	
22079	122	1	2	373	0.387	
22079	122	2	2	599	1	
22079	122	3	2	1325	1	
22079	122	4	2	781	1	
22079	123	1	2	58	0.029	

22079	124	1	2	8	0.005	
22079	125	1	2	882	0.423	
22079	126	1	2	378	0.514	
22079	126	2	2	1001	1	
22079	126	3	2	455	1	
22079	126	4	2	497	1	
22079	127	1	2	1164	0.943	
22079	127	2	2	382	0.204	
22079	128	1	2	354	0.708	
22079	128	3	2	662	1	
22079	129	1	2	1605	0.938	
22079	129	2	2	449	0.275	
22079	130	1	2	1887	0.787	
22079	130	2	2	233	0.482	
22079	131	2	2	633.	0.248	
						20637
22079	105	1	3	1001	0.842	
22079	105	3	3	355	0.989	
22079	109	2	3	741	0.92	
22079	109	3	3	672	0.414	
22079	110	2	3	242	1	
22079	110	3	3	303	0.239	
22079	111	1	3	178	0.633	
22079	111	2	3	388	0.435	
22079	112	1	3	464	1	
22079	115	5	3	86	0.091	
22079	116	1	3	77	0.185	
22079	116	3	3	150	0.151	
22079	116	4	3	653	0.653	
22079	117	1	3	1185	1	
22079	117	2	3	117	0 175	
22079	117	3	3	113	0.203	
22079	123	1	3	1947	0.971	
22079	123	2	3	1840	0 468	
22079	123	4	3	879	1	
22079	124	1	3	1557	0.995	
22079	124	2	3	971	0.739	
22079	125	1	3	1202	0.577	
22079	125	2	3	344	0.318	
22079	125	3	3	2542	0.933	
22079	125	4	3	384	1	
22079	127	1	3	70	0.057	
22079	127	2	3	1490	0.796	
22079	130	1	3	511	0.213	
22079	130	2	3	188	0.389	
22079	131	1	3	628	0.806	
22079	131	2	3	1922	0.752	
						23200
22079	105	1	4	188.	0.158	
22079	105	2	4	120	1	

22079	105	3	4	4	0.011	
22079	105	4	4	154	1	
22079	107	1	4	64	1	
22079	109	1	4	139	1	
22079	109	2	4	64	0.08	
22079	109	3	4	953	0.586	
22079	115	2	4	938	1	
22079	115	4	4	943	1	
22079	115	5	4	854	0.909	
22079	116	1	4	340	0.815	
22079	116	3	4	846	0.849	
22079	116	4	4	347	0.347	
22079	123	2	4	2089	0.532	
22079	123	3	4	435	1	
22079	124	2	4	343	0.261	
22079	124	3	4	292	1	
22079	125	2	4	738	0.682	
22079	125	3	4	182	0.067	
22079	130	2	4	62	0.128	
22079	131	1	4	151	0.194	
						10246
			4 mi total			63700

Reference 33

Louisiana-Pacific Corporation

P O Box 3107
Conroe, Texas 77305
409/756-0511

March 31, 1998

Louisiana Department of Environmental Quality
Office of Water Resources
Water Quality Management Division
P.O. Box 82215
Baton Rouge, LA 70884-2215
Attn: Ms. Stephanie Braden

Re: Louisiana-Pacific Corporation Alexandria Sawmill
Multi-Sector General Permit LAR05A074

Dear Ms. Braden,

Enclosed are the Discharge Monitoring Reports (DMR) for the above referenced Louisiana-Pacific facility for the second-year monitoring period of the Multi-Sector General Permit. In recognition that the benchmark values for Zinc were exceeded in three of the four quarters, Louisiana-Pacific will conduct the required fourth-year monitoring at the Alexandria Sawmill.

If you have any questions, do not hesitate to call me at 409-788-9723.

Very truly yours,

Jason Sanders

Jason T. Sanders
Project Manager,
Environmental Affairs

Enclosures

cc: Alexandria Sawmill

LA033198Alexandria doc

ERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Louisiana-Pacific Corporation

ADDRESS P.O. Box 3107
Conroe, TX 77305

FACILITY Alexandria Sawmill

LOCATION 1028 Fenner St.
Alexandria, LA 71301

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT
(2-16)

LAR05A074	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	96	10	1	TO	96	12	31
	(20-21)	(22-23)	(24-26)		(26-27)	(28-29)	(30-31)

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
COD	SAMPLE MEASUREMENT	—	—	—	—	—	32.0	mg/L	0	1/90	GRAB
	PERMIT REQUIREMENT	—	—		—	—	120				
TSS	SAMPLE MEASUREMENT	—	—	—	—	—	68.0	mg/L	0	1/90	GRAB
	PERMIT REQUIREMENT	—	—		—	—	100				
Zinc	SAMPLE MEASUREMENT	—	—	—	—	—	0.202	mg/L	1	1/90	GRAB
	PERMIT REQUIREMENT	—	—		—	—	0.117				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Jason T. Sanders
Project Manager,
Environmental Affairs

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE 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. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Jason Sanders
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE	
409-788-9723		3	31
AREA CODE	NUMBER	YEAR	MO

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Louisiana-Pacific Corporation

ADDRESS P.O. Box 3107
Conroe, TX 77305

FACILITY Alexandria Sawmill

LOCATION 1028 Fenner St.
Alexandria, LA 71301

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16)

PERMIT NUMBER	DISCHARGE NUMBER
LAR05A074	[illegible]

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	97	4	1	TO	97	6	30
	(20-21)	(22-23)	(24-26)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
COD	SAMPLE MEASUREMENT	—	—	—	—	—	11.0	mg/L	0	1/90	GRAB
	PERMIT REQUIREMENT	—	—		—	—	12.0				
TSS	SAMPLE MEASUREMENT	—	—	—	—	—	6.0	mg/L	0	1/90	GRAB
	PERMIT REQUIREMENT	—	—		—	—	100				
Zinc	SAMPLE MEASUREMENT	—	—	—	—	—	0.079	mg/L	0	1/90	GRAB
	PERMIT REQUIREMENT	—	—		—	—	0.117				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

attached pages

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE	DATE		
Jason T. Sanders Project Manager, Environmental Affairs	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE 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. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)	Jason Sanders SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	409-788-9723	3	31	98
TYPED OR PRINTED		AREA CODE / NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME Louisiana-Pacific Corporation
ADDRESS P.O. Box 3107
Conroe, TX 77305

FACILITY Alexandria Sawmill
LOCATION 1028 Fenner St.
Alexandria, LA 71301

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
LAR05A074	001

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	97	1	1	TO	97	3	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
COD	SAMPLE MEASUREMENT	—	—	—	—	—	59.0	mg/L	0	1/90	GRAB
	PERMIT REQUIREMENT	—	—		—	—	120				
TSS	SAMPLE MEASUREMENT	—	—	—	—	—	81.0	mg/L	0	1/90	GRAB
	PERMIT REQUIREMENT	—	—		—	—	100				
Zinc	SAMPLE MEASUREMENT	—	—	—	—	—	0.149	mg/L	1	1/90	GRAB
	PERMIT REQUIREMENT	—	—		—	—	0.117				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Jason T. Sanders
Project Manager,
Environmental Affairs
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE 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. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Jason Sanders
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
409	788-9723	3	31	98
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

2 of 1

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Louisiana-Pacific Corporation

ADDRESS P.O. Box 3107
Conroe, TX 77305

FACILITY Alexandria Sawmill

LOCATION 1028 Fenner St.
Alexandria, LA 71301

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
LAR05A074	001

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	97	7	1	TO	97	9	30
	(20-21)	(22-23)	(24-26)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUANTITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
COD	SAMPLE MEASUREMENT	—	—	—	—	—	8.0	mg/L	0	1/90	GRAB
	PERMIT REQUIREMENT	—	—		—	—	120				
TSS	SAMPLE MEASUREMENT	—	—	—	—	—	6.0	mg/L	0	1/90	GRAB
	PERMIT REQUIREMENT	—	—		—	—	100				
Zinc	SAMPLE MEASUREMENT	—	—	—	—	—	0.123	mg/L	1	1/90	GRAB
	PERMIT REQUIREMENT	—	—		—	—	0.117				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Jason T. Sanders
Project Manager,
Environmental Affairs

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE 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. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Jason Sanders

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
409-788-9723		3	31	98
AREA CODE	NUMBER	YEAR	MO	DAY

MENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

1 of 1

Alexandria Water file

Facility Name/Mailing Address

NAME LOUISIANA PACIFIC CORPORATION

ADDRESS 1028 FENNER STREET
ALEXANDRIA, LA. 71301

FACILITY SAWMILL

LOCATION ALEXANDRIA, LA.

(2 16) PERMIT NUMBER: LA0039551

DISCHARGE NUMBER: 001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	98	01	01	TO	98	03	31
	(20 21)	(22 23)	(24-25)		(26 27)	(28 29)	(30 31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54 61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (18-45) QUALITY OR CONCENTRATION (46 53) MINIMUM	AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64 68)	SAMPLE TYPE (69-70)
BOD	SAMPLE MEASUREMENT				N/A	N/A	6.0	MG/L		1/qt	grab
	PERMIT REQUIREMENT				N/A	N/A	35				
T AL SETTLEABLE SOLIDS	SAMPLE MEASUREMENT				N/A	N/A	0.0	MG/L		1/qt	grab
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TOTAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT				N/A	N/A	4.4	MG/L		1/qt	grab
	PERMIT REQUIREMENT				N/A	N/A	45.0				
PH	SAMPLE MEASUREMENT				N/A	N/A	7.60	SU		1/qt	grab
	PERMIT REQUIREMENT				N/A	N/A	9.0				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Robert Turnage
Site Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE 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. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Robert Turnage
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 318, NUMBER 448-4108

DATE: YEAR 98, MO 04, DAY 14

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME LOUISIANA PACIFIC CORPORATION

ADDRESS 1028 FENNER STREET
ALEXANDRIA, LA. 71301

FACILITY SAWMILL

LOCATION ALEXANDRIA, LA.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-19)
LA0039551	001
PERMIT NUMBER	DISCHARGE NUMBER

Alexandria WIR0200

FILE COPY

MONITORING PERIOD

FROM YEAR	MO	DAY	TO YEAR	MO	DAY
98	04	01	98	06	30
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

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PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	(54-61) AVERAGE	MAXIMUM	UNITS	NO EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
BOD	SAMPLE MEASUREMENT				N/A	N/A	4.0	MG/L		1/qt	grab
	PERMIT REQUIREMENT				N/A	N/A	35				
OTAL SETTLEABLE SOLIDS	SAMPLE MEASUREMENT				N/A	N/A	0.0	MG/L		1/qt	grab
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TOTAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT				N/A	N/A	4.4	MG/L		1/qt	grab
	PERMIT REQUIREMENT				N/A	N/A	45.0				
PH	SAMPLE MEASUREMENT				N/A	N/A	7.55	SU		1/qt	grab
	PERMIT REQUIREMENT				N/A	N/A	9.0				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

ROBERT TURNAGE
SITE MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE 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 SEE 18 U S C § 1001 AND 33 U S C § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)

R Turnage

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
318	448-4108	98	08	14
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

EPA Form 3320-1 (Rev. 9-88) Previous editions may be used. (REPLACES EPA FORM T 40 WHICH MAY NOT BE USED)

PAGE 1 OF 1

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME LOUISIANA PACIFIC CORPORATION

ADDRESS 1028 FENNER STREET
ALEXANDRIA, LA. 71301

FACILITY SAWMILL

LOCATION ALEXANDRIA, LA.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER: LA0039551

(17-19) DISCHARGE NUMBER: 001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	98	07	01	TO	98	09	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

RECEIVED OCT 16 1998

Alexandria

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	(54-61) AVERAGE	MAXIMUM	UNITS	NO EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
BOD	SAMPLE MEASUREMENT				N/A	N/A	6.2	MG/L		1/qt	grab
	PERMIT REQUIREMENT				N/A	N/A	35				
TOTAL SETTLEABLE SOLIDS	SAMPLE MEASUREMENT				N/A	N/A	0.1	MG/L		1/qt	grab
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TOTAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT				N/A	N/A	22.0	MG/L		1/qt	grab
	PERMIT REQUIREMENT				N/A	N/A	45.0				
PH	SAMPLE MEASUREMENT				N/A	N/A	7.53	SU		1/qt	grab
	PERMIT REQUIREMENT				N/A	N/A	9.0				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

FILE COPY

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
ROBERT TURNAGE SITE MANAGER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE 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 SEE 18 U S C § 1001 AND 33 U S C § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)	Robert Turnage SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	318 AREA CODE	448-4108 NUMBER	98 YEAR	10 MO	13 DAY
TYPED OR PRINTED							

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME LOUISIANA PACIFIC CORPORATION

ADDRESS 1028 FENNER STREET
ALEXANDRIA, LA. 71301

FACILITY SAWMILL

LOCATION ALEXANDRIA, LA.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-19)
LA0039551	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	98	10	01	TO	98	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

RECEIVED
JAN 14 1999

WI NUCC Alexandria

NOTE Read instructions before completing this form.

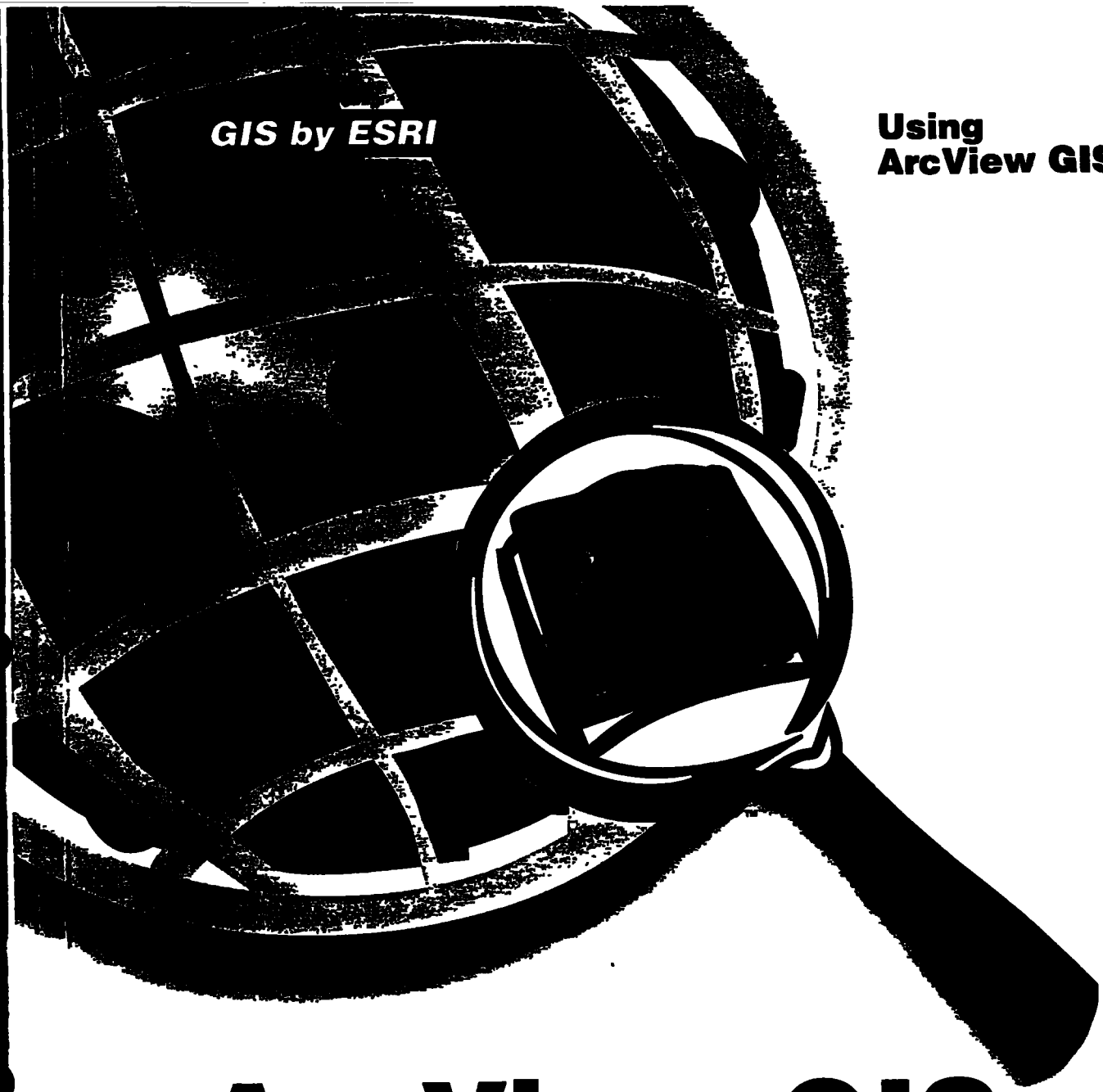
PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (18-45) QUALITY OR CONCENTRATION (46-53) (54-61) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
BOD	SAMPLE MEASUREMENT				N/A	N/A	8.0	MG/L		1/qt	grab
	PERMIT REQUIREMENT				N/A	N/A	35				
TOTAL SETTLEABLE SOLIDS	SAMPLE MEASUREMENT				N/A	N/A	0.0	MG/L		1/qt	grab
	PERMIT REQUIREMENT				N/A	N/A	N/A				
TOTAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT				N/A	N/A	17.0	MG/L		1/qt	grab
	PERMIT REQUIREMENT				N/A	N/A	45.0				
PH	SAMPLE MEASUREMENT				N/A	N/A	7.50	SU		1/qt	grab
	PERMIT REQUIREMENT				N/A	N/A	9.0				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

FILE COPY

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
DWAYNE MOSES SITE MANAGER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE 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 SEE 18 U S C § 1001 AND 33 U S C § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years)	Dwayne G. Moses SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	318 AREA CODE	448-4108 NUMBER	99 YEAR	01 MO	12 DAY
TYPED OR PRINTED						

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Reference 34



Using ArcView GIS

ArcView® GIS

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Version 3.1

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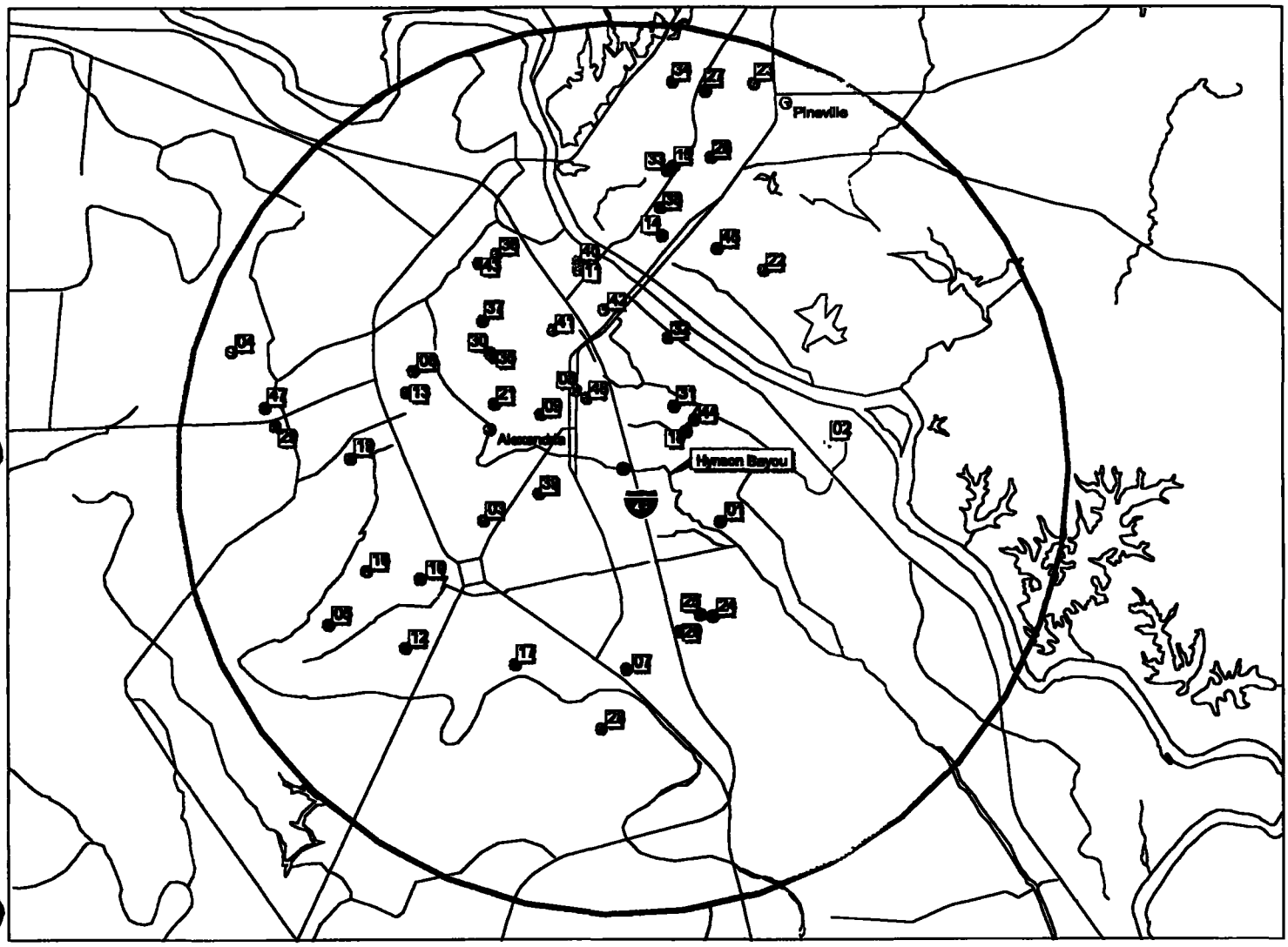
Schools within 4-mile radius
of Roy O. Martin/Louisiana-Pacific site

1 Aaron Street School
2. Acadian School
3. Aiken School
4. Alexandria Country Day School
5. Alexandria High School
6 Alexandria Junior High School
7. Alexandria Trade School
8 Alma Redwine Elementary School
9. Bolton High School
10 Brame Junior High School
11. Central School
12. Cherokee Elementary School
13. D F Huddle Elementary School
14 Expressway School
15 First Baptist Church of Pineville Day School
16. Grace Christian School
17 Horseshoe Drive Elementary School
18. Jones Street Junior High School
19 Julius B. Nachman Elementary School
20. Kelso-Twin Cities High School
21 L. S. Rugg Elementary School
22. Lakeside School
23. Lessie Moore Elementary School
24 Lincoln Road Primary School
25 Lincoln Road School Number 2
X26. Louisiana College
X27. Louisiana Institute of Vocational Education
28 Martin Park Elementary School
29. Menard High School
30. Our Lady of Prompt Succor School
31. Peabody High School
32 Peabody School
33 Pineville Elementary School
34 Pineville High School
35 Providence High School
36. Reed Avenue Elementary School
37 Rosenthal Elementary School
38 Sacred Heart School
39 Saint Frances Cabrini School
40. Saint Frances Xavier Academy
41 Saint James Episcopal Day School
42. Saint James School
43 Saint Rita School
44. Silver City School
45. Slocum High School
46. South Alexandria Sixth Grade Center
47 State School



3 0 3 6 Miles

- Towns
- 4 mile buffer
- Schools
- Rivers
- Major Roads

N
W E
S

Reference 35

RECORD OF COMMUNICATION

CONTRACT/PROGRAM: 68-W6-0013	
TDD#: S06-99-07-007	**PAN#:** 092710SAXX
CONVERSATION WITH: Brad Hanson	**DATE:** October 27, 1999
	TIME: 10 45 a m
TITLE: Geologist	
COMPANY: Louisiana Geological Survey	
ADDRESS:	[x] **ORIGINATOR PLACED CALL**
	[ ] **ORIGINATOR RECEIVED CALL**
PHONE: 225-388-3475	
SUBJECT: Groundwater/ geological characteristics of Alexandria area.	

NOTES: START Carson called to get information about geology in the Alexandria area.

Mr Hanson says the confining units do not confine well There are large holes in them allowing water to travel from one aquifer to the other. The area is unconsolidated sandbeds.

The depth to groundwater is difficult to determine and varies greatly in a short distance.

Mr. Hanson will call back with information on the depth of the Fleming Formation

ACTION:

[ ] **FILE:**	**CONTRACT REPRESENTATIVE:** Jon Rinehart
[ ] **TICKLER FILE:**	**TITLE:**Site Assessment Manager
[ ] **FOLLOW-UP BY:**	**ORIGINATOR:**Maggie Carson
[ ] **DISTRIBUTION:**	**TITLE:** Team Leader

Reference 36

RECORD OF COMMUNICATION

CONTRACT/PROGRAM: 68-W6-0013	
TDD#: S06-99-07-007	**PAN#:** 092710SAXX
CONVERSATION WITH: Cindy White	**DATE:** September 27, 1999
	TIME: 10:55 a m.
TITLE:	
COMPANY: City of Alexandria	
ADDRESS: 2021 Industrial Park Road Alexandria, Louisiana 71302	[x] **ORIGINATOR PLACED CALL** [ ] **ORIGINATOR RECEIVED CALL**
PHONE: 318-441-6215	
SUBJECT: Nearest well to Fenner Street and Houston Street (Roy O. Martin site)	

NOTES: START Carson called City of Alexandria regarding municipal wells. Mr. Bass informed Ms White that the nearest city well to Fenner Street and Houston Street is at the corner of Masonic Street and Lee Street.

ACTION:

[ ] **FILE:**	**CONTRACT REPRESENTATIVE:** Jon Rinehart
[ ] **TICKLER FILE:**	**TITLE:** Site Assessment Manager
[ ] **FOLLOW-UP BY:**	**ORIGINATOR:** Maggie Carson
[ ] **DISTRIBUTION:**	**TITLE:** Team Leader

Reference 37

ERM EnviroClean-
Southwest, L.L.C.

16300 Katy Freeway
Suite 200
Houston, Texas 77094
(713) 579-1135
(713) 579-3619 (Fax)

Attorney-Client Privilege

9-22-97

September 18, 1997

Ms Lauri Newton
Legal Department
Louisiana-Pacific Corporation
111 SW Fifth
Portland, OR 97204

ERM.

RE. Waste Removal Action and Disposal
Louisiana-Pacific Corporation
Alexandria, Louisiana Sawmill

Dear Ms. Newton

ERM EnviroClean-Southwest, L L C (EnviroClean) has completed the removal of PCB-containing electrical equipment and other miscellaneous wastes that were stored at the above-referenced site The only remaining major environmental issues are related to the removal of affected soil in Building 40 and the proper abandonment of three water wells Although not urgent, the LDEQ and the LDOTD have specific requirements pertaining to promptly closing out-of-service wells A description of the Waste Removal Action and Disposal is provided below

Background

L-P operated a sawmill at 1028 Fenner Street in Alexandria, Louisiana from 1978 until 1991 When sawmill operations ceased in 1991, it was originally thought that the shut-down was temporary The equipment and 40 buildings were left in tact. Today, the facility is currently used as a log storage and transfer station which covers approximately 41 acres of land The facility was originally developed and operated by the Roy O Martin Lumber Company in 1923 L-P purchased the facility in 1978 A Site location map is shown as Figure 1-1

In October 1996, ERM-Southeast was retained to conduct a Phase I Environmental Site Assessment of the inactive sawmill During that site visit, it was discovered that oils, various chemicals, paints and other wastes were still on-site During this site visit, it was also discovered that there were several transformers and capacitors stored in one of the buildings and the electrical equipment might contain Polychlorinated Biphenyls (PCBs) Following the Phase I Environmental Site Assessment, L-P contracted EnviroClean to sample the dielectric oil in the transformers and capacitors and to inventory the wastes still on site

A member of the Environmental
Resources Management Group

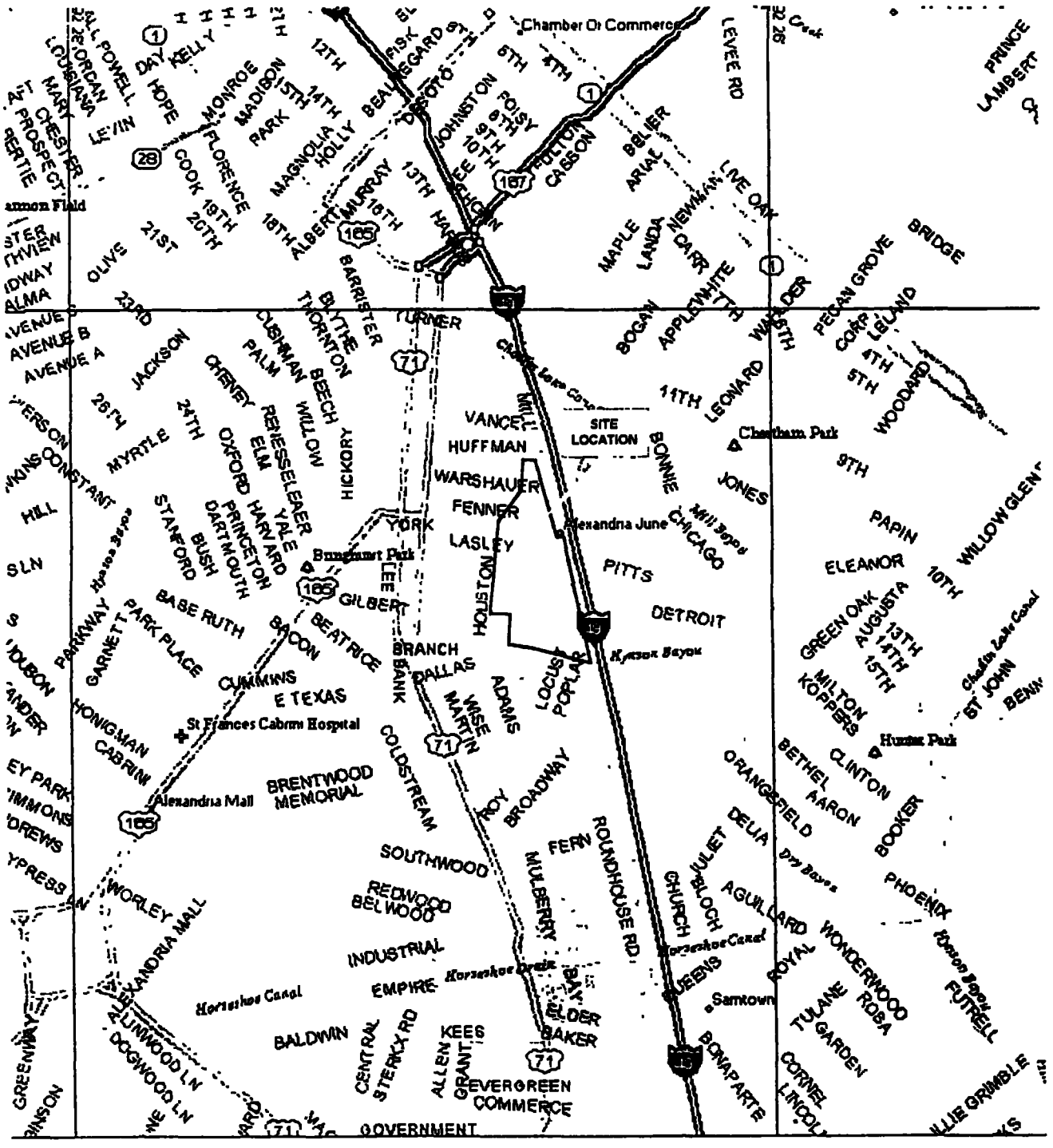


Figure 1
Site Location
Louisiana-Pacific Corporation
Alexandria, Louisiana

ERM

8/1997 | W.O. # 400-26

In December 1996, EnviroClean inventoried and sampled the transformers and capacitors on-site Several of the transformers and capacitors contained PCBs which were subsequently removed from the site Details of the activities associated with the sampling, removal and disposal of PCB affected equipment are discussed in the ERM-Southwest Draft Report *Phase I Removal Action Report for PCB Containing Electrical Equipment, Affected Soil and Debris* dated April 8, 1997

Following the removal and disposal of the PCB-containing equipment, soil and debris, EnviroClean investigated the buildings and inventoried the various materials stored in them (Attachment 1)

After the inventory was complete, EnviroClean collected, consolidated, removed and disposed of the wastes During the week of June 9, 1997, a representative from EnviroClean managed these activities which were performed by Advanced Environmental Technical Services (AETS) of Port Arthur, Texas

Activities Performed

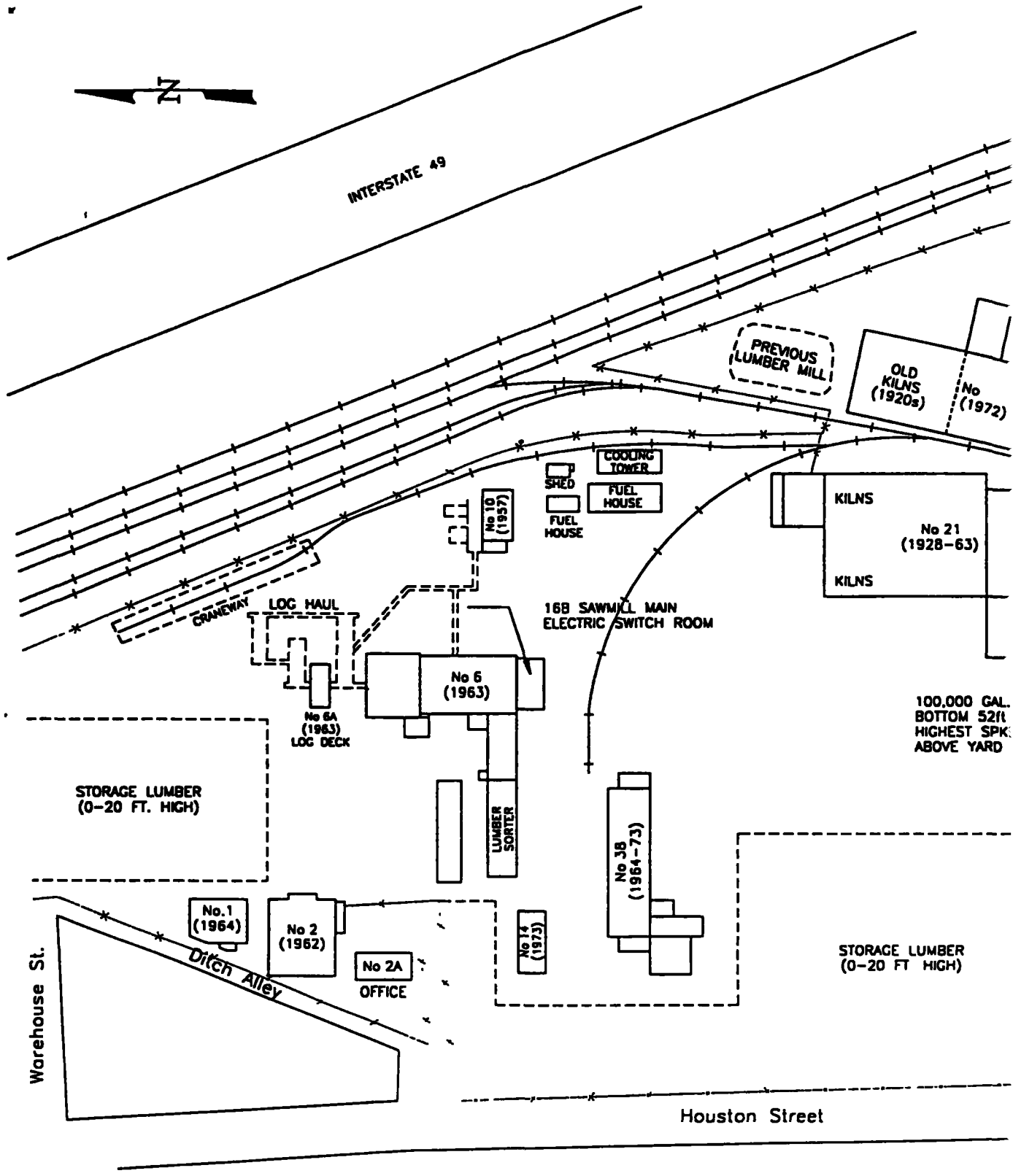
June 9-12, 1997

On June 9, 1997, EnviroClean arrived on site to begin the waste removal activities Field activities continued through June 12, 1997

Activities began with a brief meeting with Mr Robert Turnage of L-P During this meeting, Mr Turnage informed EnviroClean representative that there were three PCB-containing capacitors packed in a 55 gallon drum on-site that needed to be disposed of The drum was packed and labeled for shipment and was stored in Building 2 (Shop)

Following this meeting, three representatives from AETS arrived A project meeting was held to discuss the scope of the Removal Action Shortly thereafter, EnviroClean led AETS on a facility walk through to review building locations and to identify materials to be consolidated and removed. A site layout is presented in Figure 2

AETS was given a copy of the materials inventory which was to be used as a guide to insure that all of the materials were located and removed This was necessary because L-P personnel had begun to clean various buildings and began to move some of the waste materials to the Shop.

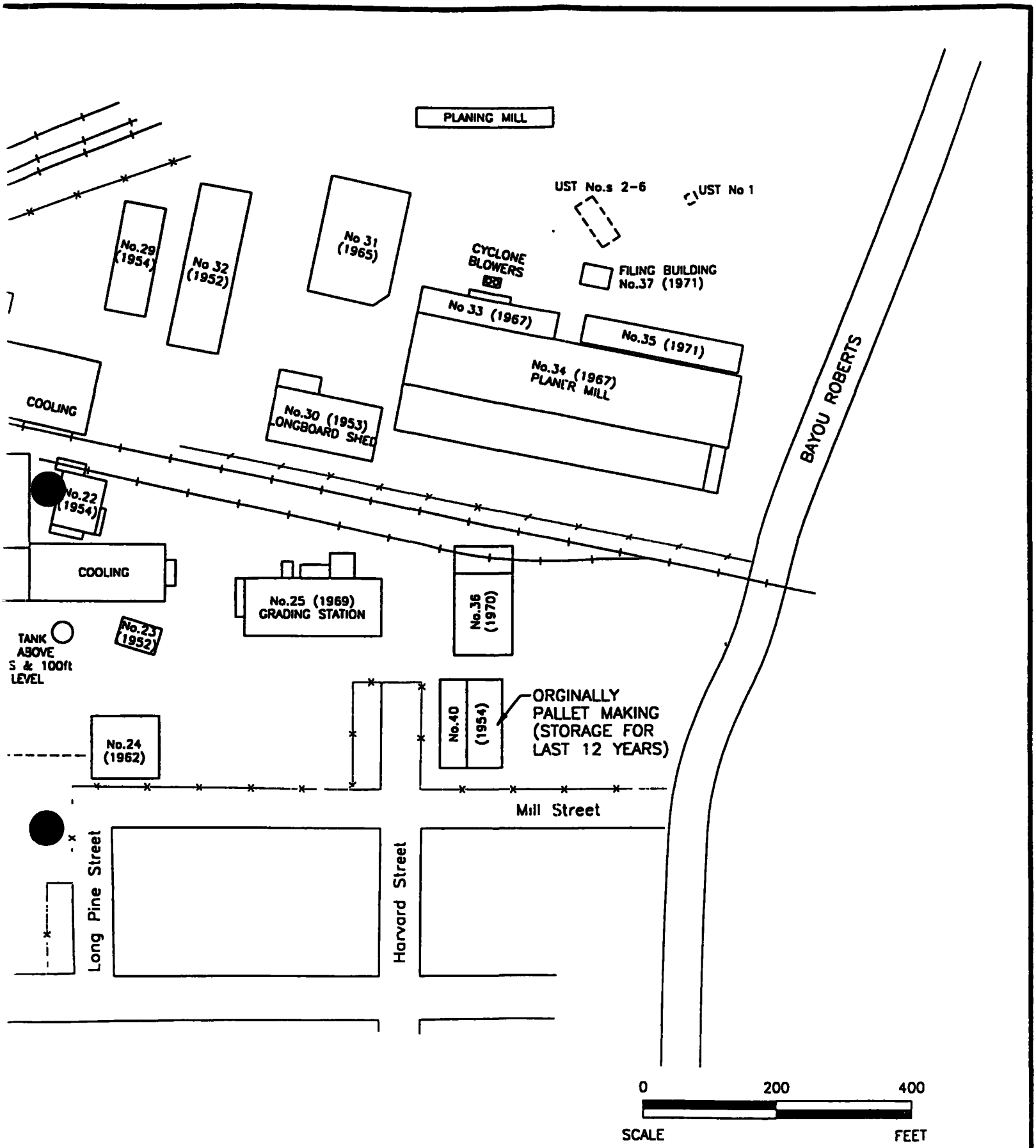


LEGEND

RAILROAD TRACKS

PROPERTY BOUNDARY

NOTE UST -



- UNDERGROUND STORAGE TANK

ERM-Southwest, Inc.

HOUSTON • NEW ORLEANS • AUSTIN • DALLAS • BEAUMONT

ERM

FIGURE 2
SITE LAYOUT MAP
Louisiana-Pacific Corporation
Alexandria, Louisiana

DESIGN JMB CHECKED KMS DATE 08/29/97 SHEET

Late afternoon on June 9, 1997, EnviroClean and AETS began to remove the waste materials Because the inventory was no longer accurate, buildings were again closely inspected to account for the wastes being collected Waste collection activities continued through June 12, 1997.

Once the wastes were collected, they were transported to Building 38, which EnviroClean designated as a staging/packing area At Building 38, the wastes were consolidated in like categories and then packed into appropriate shipping containers

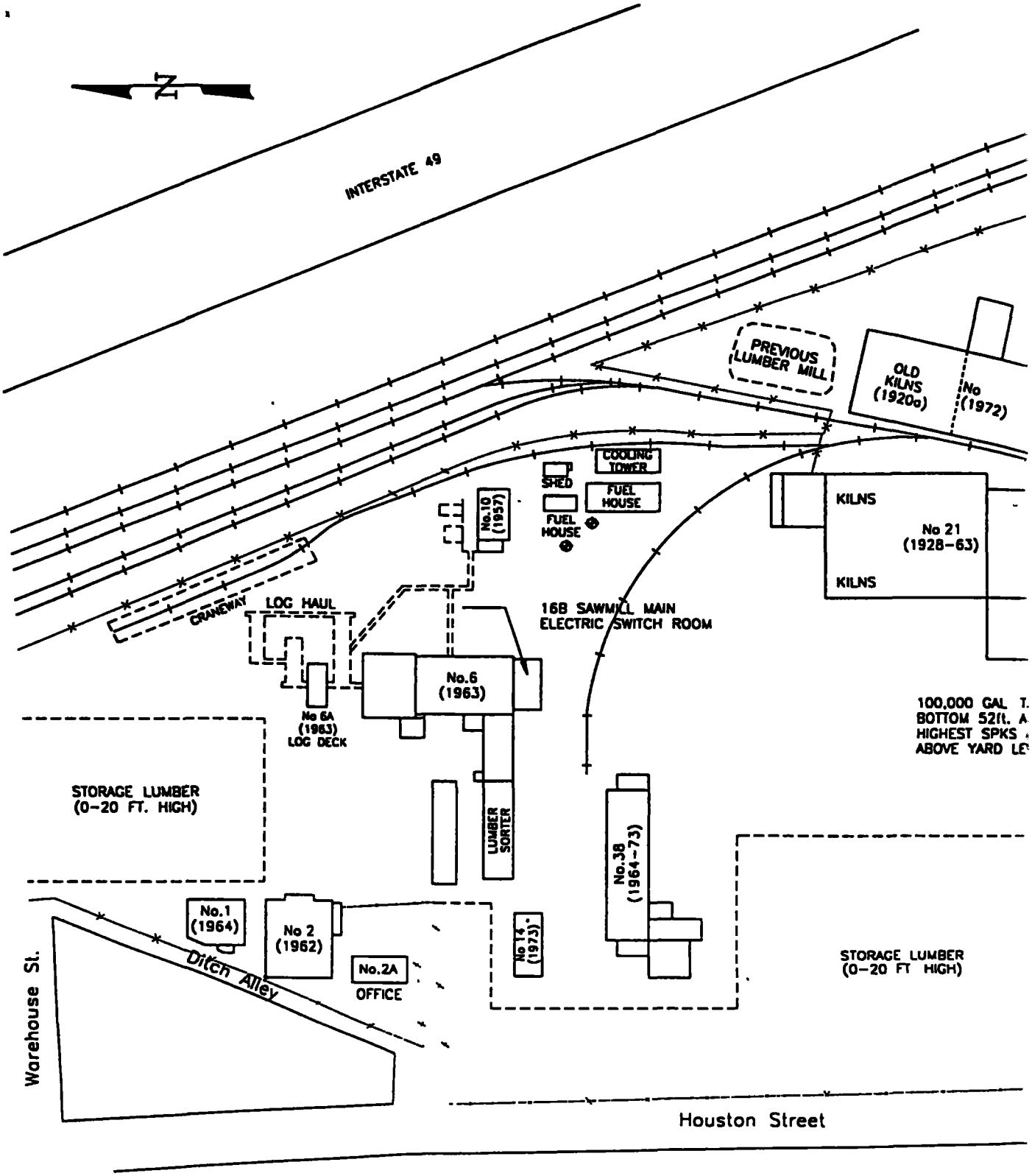
During the collection activities, EnviroClean noticed that there were several locations on site where there was what appeared to an oily sludge on the ground At two of the locations, the affected material was fairly thick and was on concrete EnviroClean collected the excess oily material and placed it in a 55 gallon drum

Packing of waste materials continued through the morning of June 12, 1997 A list of the material that was collected and consolidated is provided in Attachment 1 Photo documentation from the field activities is presented in Attachment 2 A copy of the Hazardous Waste Manifest and Land Disposal Notification are provided in Attachment 3

Pond Investigation

On June 11, 1997, EnviroClean inspected the pond located on the north east corner of the mill After walking around the area of the pond and taking photographs, the a representative from the facility was interviewed about its contents The L-P employee stated that the pond is approximately six feet deep and was used for storage of water used for the wet deck The facility does not currently store logs for longer than 30 days, therefore the wet deck is not currently being used

When the mill was in operation, the pond was fed from two deep wells located between the fuel house and Building 10 The well locations are depicted in Figure 3 Because the pond is not currently in use, water is not being pumped from either of the wells The standing water in the pond is a collection of rain water Both wells originally operated using a submersible pump One of the wells had a broken pump that has been removed and has not been replaced Mr Turnage stated that the pumps were originally situated approximately 160 feet below the top of the well casing Mr Turnage also stated that the facility is on municipal water and the pond can also be fed with city water.



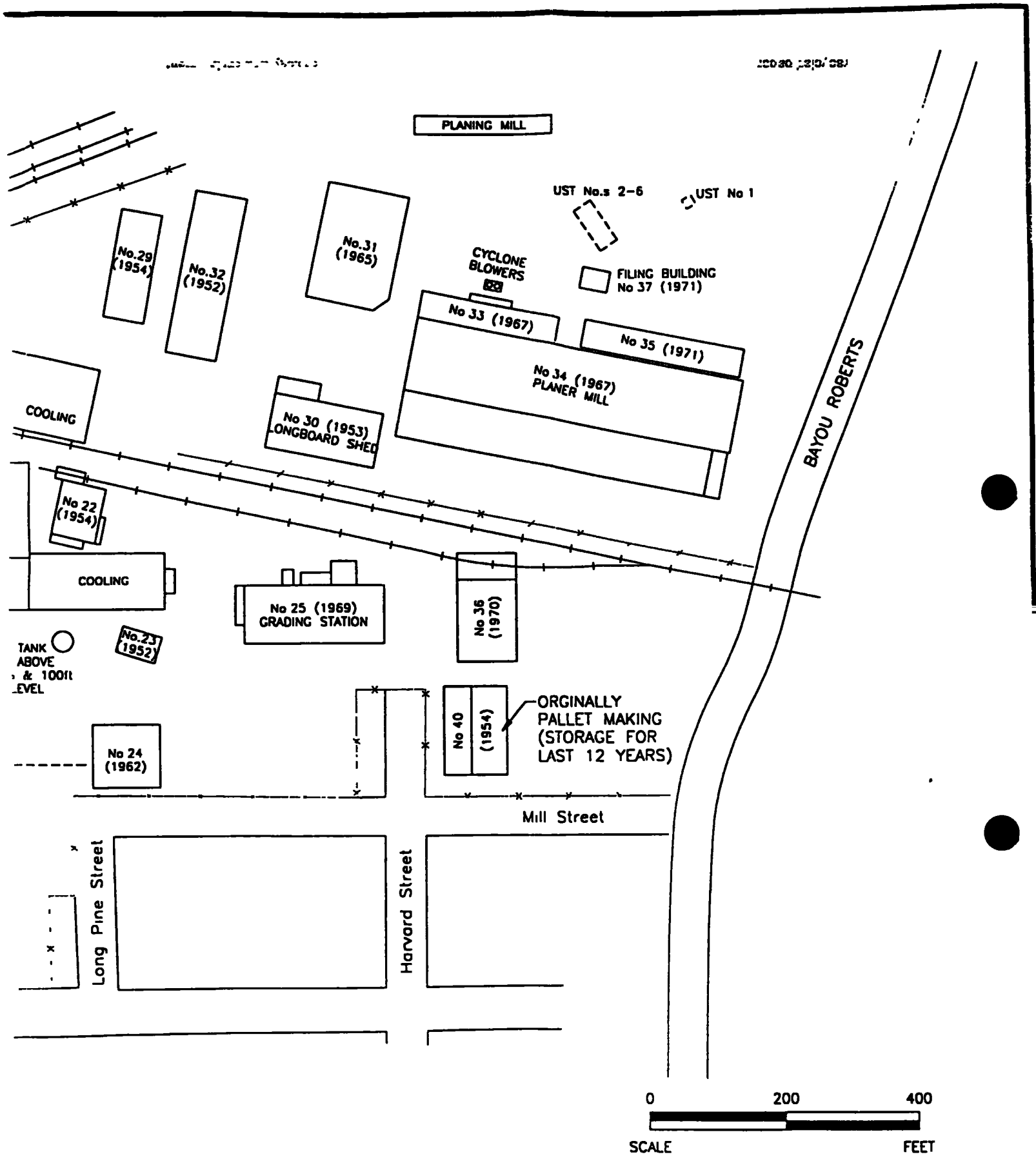
LEGEND

⊕ APPROXIMATE WATER WELL LOCATIONS

RAILROAD TRACKS

PROPERTY BOUNDARY

NOTE. UST -



UNDERGROUND STORAGE TANK

ERM-Southwest, Inc.
HOUSTON • NEW ORLEANS • AUSTIN • DALLAS • BEAUMONT

ERM.

FIGURE 3
WATER WELL LOCATIONS
Louisiana-Pacific Corporation
Alexandria, Louisiana

DESIGN JMB	CHECKED KMS	DATE 08/29/97	SHEET NO
DRAWN MHS	SCALE AS SHOWN	W.O. NO. 40006807H97	1

The pond system operates as follows

1. Water is pumped into an above-ground storage tank located between the fuel house and power house
2. From the large above-ground storage tank, water is then pumped from a second storage tank From there it is then pumped into the pond

One of the wells was partially covered with a board Both wells are four inches in diameter and are constructed of PVC with a concrete surface slab The riser is PVC with concrete molded around the exterior. After inspecting the wells, a four inch locking well cap was ordered and delivered to the site on June 12, 1997 The well cap was placed on the well and locked The key was given to the L-P facility representative.

In the evening on June 11, 1997, the L-P facility representative was once again questioned about the water system on-site. The representative stated that to the best of his knowledge, there is a third well that was covered some time ago and the well may be in the general vicinity of the railroad tracks and Buildings 21. What appears to be the metal casing of the well is stacked and stored in the cooling area of the old kilns Several walk throughs were conducted in this area in an attempt to locate a third well, however, no signs of a well were found

Summary

All of the materials associated with the sawmill equipment and operations were consolidated, packed and removed from the site The wastes were transported to Chemical Waste Management's (CWM) facility in Port Arthur, Texas for disposal The 55 gallon drum containing PCB capacitors was incinerated

EnviroClean recommends locating the third well and the plugging and abandoning the three in accordance with LDEQ and the LDOTD requirements In addition, the affected soil in Building 40 should be removed and disposed of once the equipment has been removed following the site auction. EnviroClean would also recommend that a brief site walk be conducted following the equipment and scoup removal to ascertain if the site activities may have led to or revealed additional areas of concern

If you have any questions or comments, please call

Sincerely,

ERM EnviroClean-Southwest, L.L C

Karen M. Spring

Robert E. Berg, P.E.

Guy L. Swinford, P G.
Principal

KMS/REB/GLS pcv

Attachments

cc. Ms. Barbara McGuinness
Mr. Jason Sanders

EnviroClean Inventory

Attachment 1

ERM EnviroClean-Southwest, L.L.C.
3501 N. Causeway Blvd., Suite 200
Metairie, Louisiana 70002
(504) 831-6700

Liquids and Solids Inventory
Louisiana-Pacific Corporation
Alexandria, Louisiana
Powerhouse

Item #	Quantity	Container Type	Volume	Type	Location	Notes
1	1	55-gal drum	55 gal	Exxon Teresstic 32 Hydraulic Oil	1st floor	MSDS
2	1	55 gal drum	partially full	Chevron RPM DELO Motor Oil	1st floor	SAE 30
3	1	55-gal drum	1/3 full	Amersate 2 Corrosion Inhibitor	1st floor	MSDS
4	1	55 gal drum	little	AMERCOR 8703 Corrosion Inhibitor	1st floor	MSDS
5	1	55-gal plastic drum	1/3 full	Grease 208	1st floor	contents under suction
6	1	7-gal bucket	?	solid material	1st floor	"honey" colored
7	1	55-gal drum	?	AMERTROL 1130 Deposit Inhibitor	1st floor	MSDS
8	3	55-gal drums	1 partially full	Drew Plex 505	1st floor	MSDS
9	3	3 gal containers	full	solid material, BWT 1122	1st floor	MSDS
10	4	1 L plastic	?		1st floor	MSDS for N30 not N10
11	3	1 L plastic	?		1st floor	silver nitrate (N10), MSDS
12	1	plastic	<500 ml	methyl orange indicator	1st floor	
13	1	plastic	small	low hardness	1st floor	
14	4	bottle?	small	dark unknown liquid	1st floor	
15	1	bottle?	small, dispenser bottle	phenolpthalene	1st floor	
16	5	fire extin			1st/2nd floors	3 charged
17	1	can paint	?	DAP 33 glazing.	1st floor	
18	1	oil pan	residual		1st floor	
19	1	silver cyl vessel	10 gal?		1st floor	sampled
20	1	can	8 oz	Carbon Remover No 235	1st floor	
21	1	can	?	Porch & Floor alkyd gloss enamel	1st floor	
22	1	can	?		1st floor	——kote
23	1	bottle	2 L	glycerin synthetic (anhyd); emul, des ?	1st floor	
24	1	8 oz can	8 oz	Devcon Coating	1st floor	95% zinc; 5% epoxy, solidified?
25	3	14 oz tubes	full	STP polymer & lithium grease	1st floor	
26	1	glass bottle	750 ml	unknown liquid	1st floor	
27	5	bottles	8-16 oz	recording ink	1st floor	
28	3	paint cans	1/5 full	triple boiled linseed oil, solidified?	1st floor	
29	1	paint can	1 gal	Valspar High Heat Dum Dum Gray??	2nd floor	
30	2	1 L glass jars	1/4 L total	mercury	2nd floor	
31	1	can	10 oz	High Temp 15 A anti-seize lubricant	2nd floor	
32	1	open tin can	?	solid	2nd floor	white powdery substance
33	2	paint cans	1 gal	Sherman-Williams Industrial Enamel	2nd floor	mineral spirits, titanium dioxide, soya alkyd polymer, MSDS OSHA yellow
34	11	paint brushes			2nd floor	dried w/ residue
35	1	plastic bottle	6 oz	molybdate reagent	2nd floor	
36	1	can	?	unknown chemical type	2nd floor	
37	1	can	15 fl oz	STP Oil Treatment	2nd floor	
38	1	plastic bottle	5 oz	unknown liquid	2nd floor	marking on the bottle is equal to the acid line
39	5	green metal containers	7 oz, partially full	grease mixed w/ clover compound	2nd floor	
40	1	can	16 oz	Dolph-Spray F12-41 Class F Polyurethane Insulator	2nd floor	no fluorocarbons
41	1	can	11 oz	Spray On Fast Dry Enamel Marking Paint	2nd floor	flat black
42	1	plastic container	?	unknown liquid	2nd floor	orange tint, Class Plus label
43	1	bottle	1/2 oz	Fog Fighter	2nd floor	fights fog and mist
44	1	tube	15 oz	Loctite High Temp gasket eliminator 510	2nd floor	
45	1	bag	small	solid	2nd floor	unknown white powdery substance, item #397
46	1	brown, plastic container	16 oz	liquid	2nd floor	hydrogen peroxide
47	3	16 oz bottles	13 oz	Scotch 3M Red Ivy Spray Sealer	2nd floor	w/ methylene chloride, ?formaldehyde, ?, isopropyl alcohol, toluene, xylene, acetone butyl alcohol, iron oxide, ? & naphtha, propane, MEK, ethyl 3-ethoxypropionate ?, styrene; alkyd resin, do not incinerate
48	2	bottles	15 oz	contact cleaner 2000	2nd floor	electric grade; 1,1-dichloro-1-fluoroethane & carbon dioxide
49	1	tube	5.3 oz	Molycote 55 M Grease	2nd floor	grease
50	2	liter	?	potassium iodide-iodate	1st floor	MSDS
51	1	plastic, brown, 1 liter	?	unknown content, bottle similar to other lab bottles	1st floor	
52	5	plastic bottles	500 ml	phenolphthalene indicator solution	1st floor	
53	4	16 oz plastic bottles	2-4 oz	starch acid?? indicator	1st floor	MSDS
54	1	0.5L plastic	50 ml	potassium chromate	1st floor	MSDS
55	1	brown rusty can	small	solid	1st floor	type w/ brush in can

56	1	plastic gal jug	12 oz	waste oil/oily substance	1st floor	
57	2	bottles	100 ml	phosphate reagent	1st floor	P/P 8326
58	1	lab kit w/various bottles	100 ml	2, di wtr; 1, 5 25N Sulf Acid, 1-5 25N Sod Hydroxide,	1st floor	also 1, 30ml filtration aid solution in a dropper bottle
59	2	100 ml plastic bottles	?	R 1003L Meta-cresol purple indicator	1st floor	
60	1	lab kit w/various bottles	various	2, plas bottles 125 ml HCL, 1, glass w/ 10 g molybdenum purple reagent	1st floor	
61	1	200 ml amber glass bottle	50 ml	clear liquid	1st floor	
62	1	paint can	?	Devoe Porch & Floor alkyd gloss enamel	1st floor	
63	1	5-gal bucket	?	crystallized Amertate 2	1st floor	loc beneath Amertate 2 sample port
64	2	paint cans	1 gal	Industrial Maintenance Coatings Indus Enamels	1st floor	1 yellow, 1 Ultra Deep Base
65	1	1 L	?	oily sludge/slop	1st floor	thick and black
66	2	5 gal plastic buckets	full	Sher-Will Metallic Paint Ultra Deep Base	exterior west side	
67	1	55 gal plastic drum	5 gal	appears to be rainwater	process area north side	black drum labelled Amertate 2, fluid is brownish and oily
68	1	55 gal steel drum	5 gal	water with a hydrocarbon sheen, sludge-like material at bottom	process area north side	sludge-like material is brown, water is brownish and oily
69	1	16 oz plastic container	full?	oily substance	process area north side	
70	2	gas cylinders	?	no label		
71	1	14 oz tube	1/2 full	Chevron Dura-Lith Grease EP-2		

Liquids and Solids Inventory
Louisiana-Pacific Corporation
Alexandria, Louisiana
Sawmill

Item #	Quantity	Container Type	Volume	Product	Location	Notes
1	1	5 gal bucket	?	oily substance	1st floor	
2	19	fire extinguisher			1st/2nd floor	some pressurized, some have no gauges so unable to tell
3	1	open plastic bottle	?	unknown black grease	1st floor	-RIOGILD??, combustible
4	1	128 fl oz paint can	?	Rustoleum 344 Federal Safety Yellow	1st floor	
5	1	spray paint can	11 oz?	Sperver Indoor/Outdoor	1st floor	no lead, non-toxic when dry, petrol distillates
6	1	plastic milk carton	100 ml	oily substance	1st floor	
7	1	plastic gallon bottle	8-10 oz	unknown liquid	1st floor	
8	1	gal metal can	60 ml (residual)	Gunk Liquid Wrench Super Lubricant	1st floor	
9	1	plastic bottle	8 oz ?	Permatex Anti-seize Lubricant	1st floor	high temp and perform
10	1	metal can	12 oz	unknown substance	1st floor	
11	2	11 oz metal can	3-4 oz ?	Brite Touch Spray Paint	1st floor	petrol distillates
12	1	open can	10 oz	varnish	1st floor	type w/ brush in can
13	1	metal can	?	oily viscous material	1st floor	
14	1	glass bottle	8 oz	layered oil liquid	1st floor	yellowish tint
15	1	quart can	?	Quaker State SAE 30 Motor Oil	1st floor	
16	1	quart metal can	?	Beltrection 91004 Power Belt Treatment	1st floor	
17	2	12 oz bottles	?	Sil squeeze silver brazing flux??	1st floor	
18	1	1 lb can	?	black flux	1st floor	w/ fluorides
19	8	1 gal paint cans	various amounts	Sherman-Williams Indust Maint Coatings Indust Enamel	1st/2nd floor	item # 33?, 1-white, 4-OSHA yellow 2 Ultra Deep Base, 1-red
20	1	55 gal drum	1/2 full	Gulf Harmony -30 Gen Oil??	1st floor	
21	1	gal	?	Shell 10W40 motor oil	1st floor	ROIT FLAT??
22	1	plastic jug	6 oz	oily substance	1st floor	
23	1	20 gal drum	5-7 gal	oily substance	1st floor	thick; black
24	1	5 gal bucket	5-7 gal	oily substance, near item 96	1st floor	thick; black
25	1	plastic jug	•	oily rags	1st floor	next to items 96/97
26	1	oil pan	1/2 full	oily substance	1st floor	
27	3	filters	2-4 ft high	stained with a chemical substance	1st floor	
28	1	1 U S gal can	<1/4 full	Therma Solve concen compressor conditioner	1st floor	
29	1	55 gal drum	1/3 full	Ladok EP 2 ? lubricating grease	1st floor	
30	1	gal can	?	paint/solvent	1st floor	solidified
31	1	can	?	D?VO?h.O Ind Ext alkyd Quick Dry Gloss Enamel	1st floor	w/ soya alkyd, aliphatic aromatic hydro , solidified
32	1	small	3"x10"	unknown contents	1st floor	
33	1	gal metal can	?	Pure Plastic Cement	1st floor	solvent cutback asphalt mastic petrol asphalt, mineral fillers refined solvents
34	1	gal metal can	?	Prufloat Chem ? epoxy	1st floor	high build running??, xyol and epoxy resins
35	1	gal metal can	?	Metallite Pure Alum Paint	1st floor	xyol and petrol distillates
36	1	small tube	?	petroleum type jelly	1st floor	unable to reach
37	1	small cylinder	3"x10"	propane	1st floor	
38	1	small cylinder	3"x10"	unknown	1st floor	not labelled
39	1	1 gal plastic container	8-10 oz	oily liquid	1st floor	
40	1	8 oz plastic bottle	?	Burndy Penetrox?? A	1st floor	joint sealant
41	1	small 1 lb metal can	1/3 full	Buss Fuse Wire	1st floor	appears to be some kind of grease compound
42	1	tube	?	No 2 ?? Compound	1st floor	label unreadable
43	17	container?	?	GE Fast Drying Recorder Ink	1st floor	black
44	6	plastic containers	various amounts	GE Medium Drying Red ink	1st floor	some contents have solidified
45	1	metal can	3/9 oz Chaco x Fiber ?	Chaco A4	1st floor	for sealing conduits?? for hazardous locations
46	1	14 oz tube	?	Exxon lubricating grease	1st floor	
47	1	1 gal can	?	S W Indus Maint Coatings Metalex Semi-Gloss Coating	1st floor	flash point 201 degrees F, 2-(2-butoxyethoxy)ethanol, ethylene glycol, acrylic latex, titanium dioxide
48	1	silver metal can	?	unknown contents	1st floor	type w/ brush in can
49	1	gal metal can		see item 84(OSHA yellow)	yellow build,west side small	titanium dioxide, CaCo3, paint brush and mixing stick on can
50	?	fire extinguishers			2nd floor	pressurized
51	1	plastic bottle	size 8c or 8d	floor charge ? bearings/pellets for Dodge flexdyne	2nd floor	
52	1	gallon metal can	?	R-M Super-Max Enamel Reducer ER-60 Medium Reducer	2nd floor	some kind of solvent, flammable, respirator required during use
53	1	tube	14 4 oz	Conoco Super Sta grease	2nd floor	
54	1	16 oz spray can	12 1 oz	Weekend Spray Paint	2nd floor	non-toxic when dry, flammable, petroleum distillates
55	1	11 oz can	?	Gloss Yellow Quik-lole ? spray paint	2nd floor	flammable, toluol

56	1	1 lb 2 oz	?	Spartan Glass cleaner	2nd floor	w/ ammonia
57	1	15 oz	?	CRC Industrial Contact cleaner	2nd floor	
58	1	11 oz can	?	Gunk Solder Seal ? Thrust ? Quick Starting Fluid		w/ ethylether and petroleum distillates
59	1	14 1 oz tube	?	Amoco High Performance Lubricating Grease		
60	2	open plastic milk type containers	1/2 full	unknown oily liquid/solid		
61	1	red metal cylinder 10"x6"	1/3 full	grease		
62	12	14 oz tube	various amounts	Chevron Dura-Lith Grease EP-2	1st/2nd floor	
63	1	18 oz oil can w/ spout	4-6 oz	oily sludge		black
64	1	5 gal container	2-3 gal	Dextron Transmission Fluid		Premium universal fluid
65	1	5 gal metal bucket	5 gal	Gulf Multipurpose Gear Lubricant SAE 80W/90		
66	1	1 gal metal container	1/3 full	R-M Alpha-cryl lacquer thinner		w/toluene, alcohol, ester, ketone and petroleum distillate solvents
67	1	5 gal metal container	1/2 full	Conoco Super Hydraulic Oil 32		ISO 80 inhibited anti-wear hydraulic oil
68	1	1 gal plastic jug	1/3 full	waste oil		
69	1	14 oz steel container	?	Linde/Union Carbide Propane		liquified gas
70	1	5 gal gas can/container	10-15 oz	waste oil		
71	1	5 gal container	3-4 gal	Gulf Oil		C30D-S-AC
72	2	1 L? oil cans	1, residual/1, full			
73	1	gal plastic jug	residual	sludge/waste oil		
74	1	1 gal plastic container	6-10 oz	Cut Zol WS-5050		soluble oil
75	1	1 gal plastic container	6 oz	waste oil		
76	1	1 gal steel paint can	1/3 full	red paint		
77	1	5 gal plastic bucket	residual	waste oil		
78	1	1 lb steel	full	Graphite No 635		lubricating flake graphite
79	1	grease gun	?	unknown grease cartridge		unable to remove cart from grease gun
80	1	20 lb steel container	1/3 full	Gulf Crown Grease #2		
81	1	11 oz can	full	Spar-Var Spray Paint Indoor/Outdoor		no lead, non-toxic
82	1	1 gal container	?	S-W Industrial Enamel		OSHA orange, contains lead, combustible
83	1	5 gal bucket	full	Chevron AW Hydraulic Oil 32		no bd
84	1	5 gal bucket	3 gal	waste oil		
85	1	5 gal bucket	residual	oily material		
86	1	16 oz "Coke" bottle	full	waste oil		
87	1	14 oz tube	full	Gulf Oil EP Grease		Pressure grease
88	1	1 gal can	?	yellow paint		unlabelled
89	2	paper bags	1/2 lb?	hand soap powder		white
90	1	fire extinguisher	?		southern extension	
91	1	5-gallon bucket	1/4 full	Chevron Universal Gear Lubricant, SAE-50W 90 Hazard Rating NFPA 704	southern extension	flammability 1 1, API service GL-5
92	1	114 lb orange blue steel drum	1/2 full	Gulf Crown Grease EPN02	southern extension	open top
93	1	1 gallon steel container	full	Wagner brake fluid by Cooper Industries	southern extension	
94	1	steel container	trace amounts	lubricant grease	northern extension	open top, contains oily rags
95	1	1-gallon plastic container	1/4 full	Shell Grease SAE 15W-40, "Rotella T ?"	northern extension	
96	1	14 oz tube	full	Gulf Crown EP Special Grease	west end	
97	1	dry type capacitor	full of non PCB fluid	Westinghouse style no 1N02300A s/n ?706093	west end	2400 volts KVAC = 50
98	1	1-gallon plastic milk jug	residual amounts	waste oil	southern extension	

Liquids and Solids Inventory
Louisiana Pacific Corporation
Alexandria, Louisiana
Miscellaneous Areas

Item #	Quantity	Container Type	Volume	Product	Location	Notes
1	1	55-gal drum	5 gal?	water with a white residue	north of cooling tower	Robert says the residue is plastic, drum formally contained an acid for the cooling water system
2	1	plastic wrap	20-25 lbs?	tar	funnel house	solid
3	1	oil can	residual	oily substance	old kilns	
4	1	16 oz plastic bottle	3-4 oz	hydrogen peroxide	scale house (south), north of build 40	
5	1	grease gun	14 oz	Chevron Dura Lith EP-2 Grease	base of the rail-mounted crane	
6	1	bucket	5 gallons	Chevron NL Gear Compound 150 AGMA-4EP (150-V6-150)	base of the rail mounted crane	
7	1	oil can	1 quart	Castrol GTX Motor Oil, SAE 20W-50	residual	

Liquids and Solids Inventory
Louisiana Pacific Corporation
Alexandria, Louisiana
Building 21

Item #	Quantity	Container Type	Volume	Product	Location	Notes
1	1	8 oz glass container	1/2 full	waste oil		
2	1	14 oz tube	1/3 full	STP Poly Plus Grease Polymer and Lithium		flammable with toluene
3	1	11 oz can	?	Dutch Boy Instant Metallic Enamel Gold		
4	1	fire extinguisher	charged			
5	2	55 gal drums	1/2 2/3 full	paint		MSDS Robert had drums moved to a more secure area
6	6	fire extinguisher	?			charged and unknown
7	1	small metal can	residual	waste oil		
8	1	1 gal plastic container	?	unknown liquid		does not appear to be a hydrocarbon, looks like tea
9	1	5 gal bucket	1/2 full	roof coating		contains asbestos fibers petroleum distillates flammable for mobile homes and metal roof
10	1	55 gal drum	full	waste oil	shed west of bldg 21(south)	
11	1	55 gal drum	full	some water with a hydrocarbon based solid	shed west of bldg 21(south)	solid pastelike and black
12	2	20 gal drums	residual	oily material	shed west of bldg 21(south)	
13	1	5 gal steel bucket	full	lubricating grease/oil	outside shed, west of bldg 21(north)	viscous liquid leaking out of the top amber-colored
14	1	1 gal paint can	1/3 full	paint	shed west of bldg 21(north)	solidified, no label
15	1	11 oz spray paint can	1/3 full	Quick-color	shed west of bldg 21(north)	gloss yellow contains toluol
16	1	1 gal can of paint	1/3 full	Sher Will Industrial Enamel Main Coatings	shed west of bldg 21(north)	Ultra Deep Base contains mineral spirits alcohol ester alphate compds
17	1	1 gal can of paint	residual	Sher Will Silver Brite Hi-Heat Repairing Aluminum Paint	shed west of bldg 21(north)	
18	1	1 gal can of paint	full	Sher -Will Indust Enamel Main Coatings	shed west of bldg 21(north)	OSHA yellow
19	11	3-4 oz containers	full	recording instrument ink		

Liquids and Solids Inventory
Louisiana-Pacific Corporation
Alexandria, Louisiana
Building 23

Item #	Quantity	Container Type	Volume	Product	Location	Notes
1	1	1 gal ? plastic jug	1/2 full	waste oil		
2	1	1 qt	1/2 full	Citgo Transmission Oil Dextron III, Merco		

Liquids and Solids Inventory
Louisiana-Pacific Corporation
Alexandria, Louisiana
Building 24

Item #	Quantity	Container Type	Volume	Product	Location	Notes
1	2	fire exting				
2	1	3 gal steel drip pan	residual	oily material		
3	1	cardboard?	5 gal	tar-like material		marked with green #3
4	1	14 oz	2/3 full	Conoco Super Sta Grease		

Liquids and Solids Inventory
Louisiana-Pacific Corporation
Alexandria, Louisiana
Building 38

Item #	Quantity	Container Type	Volume	Product	Location	Notes
1	3	55 gal drums	full	Tenax 666 Concrete Floor Patch		solid tar like material
2	13	steel 5 gal buckets	full	Lion Nokorode Seal Kote		contains petroleum distillates
3	6	5 gal buckets	full	same product sampled in powerhouse		resin
4	3	steel 3 gal containers	full	black unknown solid material		tar patch used in kiln (see to Shorty)
5	1	steel drum 10 gal?	residual	tar-like solid material		drum is cut-eye mark with green #4
6	1	16 gal steel drum	1/2 full	Gulf Multi purpose Gear Lubricant SAE 85W		
7	5	6 gal steel gray buckets	full	National Refrac and Min Corlins High Alumina Chemically bonded Refrac Mix		
8	1	pallet	various	Portland Cement		
9	1/2	pallet	various	Quick-crete Mortar Mix		
10	1	small container	?	Strong Elbow Aluminum and Chrome Cleaner.		contains hydrochloric and phosphoric acid
11	1	5 gal bucket	full	see item #3		solid, no lid
12	1	5 gal steel bucket	?	punkah paste		rubbery; Shorty identifies as formerly paint
13	3	fire extng				

Liquids and Solids Inventory
Louisiana-Pacific Corporation
Alexandria, Louisiana
Building 38 Trailer

Item #	Quantity	Container Type	Volume	Product	Location	Notes
1	1	1 qt can	2-3 oz	Quaker State SAE 30 Motor Oil		
2	1	1 gal container	full?	Gardner Fibred Alum Roof Coating-Std		for mobile homes, contains vol arom hydro , asbestos fibers and aluminum
3	1	1 gal container	1/2 full	Devoe High Heat Coating		gray, contains zinc
4	1	32 oz container	1/3 full	Color Guard Tough Rubber Coating		contains 1,1,1-trichloroethane, methylene chloride, toluene, and al+M11phatic hydro
5	1	32 oz container	full	Dap "1012" Glazing Compound		contains mineral spirits
6	1	spray can	1/4 full	spray paint		no label
7	1	14 oz tube	full	Gulf Crown EP Special Grease		
8	2	1 gal cans	1/2 full	Devoe Quick Dry Gloss Enamel		contains resins and aliphatic aromatic hydr , no lead 1-red and 1-white
9	1	1 gal container	1/2 full	Graphoi? Oil, No 95 Dry Film Lubricant		
10	1	1 gal container	1/2 full	Devoe Quick Dry Red Lead Primer		contains lead
11	4	1 gal cans	1/3-1/2 full	Derusto Protective Coating		no lead, contains aliphatic hydr , resin, titanium dioxide, red, green
12	1	pint	1/2 full	Weldwood Waterproof Resorcinol Glue		
13	1	1 gal can	1/2 full	Derusto ? Finish		safety blue, contains aliphatic hydro , resin, titanium dioxide
14	1	5 gal steel bucket	1/2 full	Universal Gear Lubricant SAE 80W-90		multi-purpose EP gear lubricant
15	1	1 gal can	full	Metalcote Primer		contains red lead?, zinc chromate
16	2	1 gal steel cans	full	paint		tan, leaking hydrocarbon-looking liquid from a hole in can
17	3	10 oz "soup" cans	?	lubricating grease		solidified
18	3	cardboard	100 ct	Phenol Red pH tablets		
19	2	cardboard	100 ct	Hardness tablets		
20	1	14 oz tube	full	Conoco super-Sta grease		extreme pressure grease
21	4	small, 1" diam		Micro-fuel cells		contain caustic
22	1	14 oz tube	full	STP Heavy Duty /Fleet Poly Plus Grease		polymer and lithium
23	1	5 gal steel bucket	full	Lion Nokorode Seal Kote		contains petroleum distillates
24	1	12 oz bottle	4 oz	oily substance		
25	1	small box	?	powdered soap		ident by Shorty
26	1	box	50 lbs	Able Refractory Products Plastic		solid, grey, looks like cement
27	1	fire exting				
28	6	1 oz vials	full	printer ink		

Liquids and Solids Inventory
Louisiana-Pacific Corporation
Alexandria, Louisiana
Building 25

Item #	Quantity	Container Type	Volume	Product	Location	Notes
1	3	fire exting				
2	1	1 quart container	full	Quaker State SAE 30 Motor Oil		
3	1	14 oz tube	1/4 full	Gulf Crown EP Special Grease		
4	1	2 gal steel container	4-5 oz	waste/lubricating oil		

Liquids and Solids Inventory
Louisiana-Pacific Corporation
Alexandria, Louisiana
Building 40

Item #	Quantity	Container Type	Volume	Product	Location	Notes
1	25	fire exting	various			
2	2	50 lb bags		concrete/cement		
3	1	1 gal can	1/3 full	paint, unlabelled		
4	1	1 gal can	1/3 full	oily substance		can is labelled as Thinner (enamel)
5	1	3 gal steel bucket	3/4 full	Texaco Star Grease O		debris has accum through a hole at the top
6	2	steel containers	full	tar-like substance		similar to items in Build 38
7	1	1 gal paint can	full	black oily substance		

Liquids and Solids Inventory
Louisiana-Pacific Corporation
Alexandria, Louisiana
Buildings 22, 32, 36, & 29

Item #	Quantity	Container Type	Volume	Product	Location	Notes
1	1	drip pan	5 gal?	waste oil?	Building 22	area cordoned off with caution tape
2	1	fire exting			Building 32	
3	1	16-20 oz oil can	residual	solid tar-like material	north side of Building 36	
4	1	55 gal drum	1-3 gal	water with slight hydro sheen	north side of Building 36	
5	1	fire exting			interior Building 36	
6	1	1 quart plastic container	residual	oily substance	Building 29	
7	1	fire exting			Building 28	
8	1	10 oz spray can	1/2 full	Brite Touch Spray Paint	Building 28	red
9	2	fire exting			Old Kilns	in asbestos-containing area

Liquids and Solids Inventory
Louisiana-Pacific Corporation
Alexandria, Louisiana
Building 37

Item #	Quantity	Container Type	Volume	Product	Location	Notes
1	1	12 oz can	full	Crown 1012 Fault Finder Penetrant		high flash point
2	2	1 gal cans	1, full, 1, 1/2 full	Graphoicote NO95 Dry Film Lubricant		contains petroleum distillates
3	1	10 oz can	residual	Wood Wipe?		
4	1	fire exting				
5	1	1 gal can	residual	Dry paint		OSHA orange
6	1	10 oz plastic container	residual	Bowmabraze Flux 24908		brazing powder
7	1	1 gal can	full	oily material		label says Quaker State Oil
8	1	12 oz plastic container	residual	oily material		also a paint brush

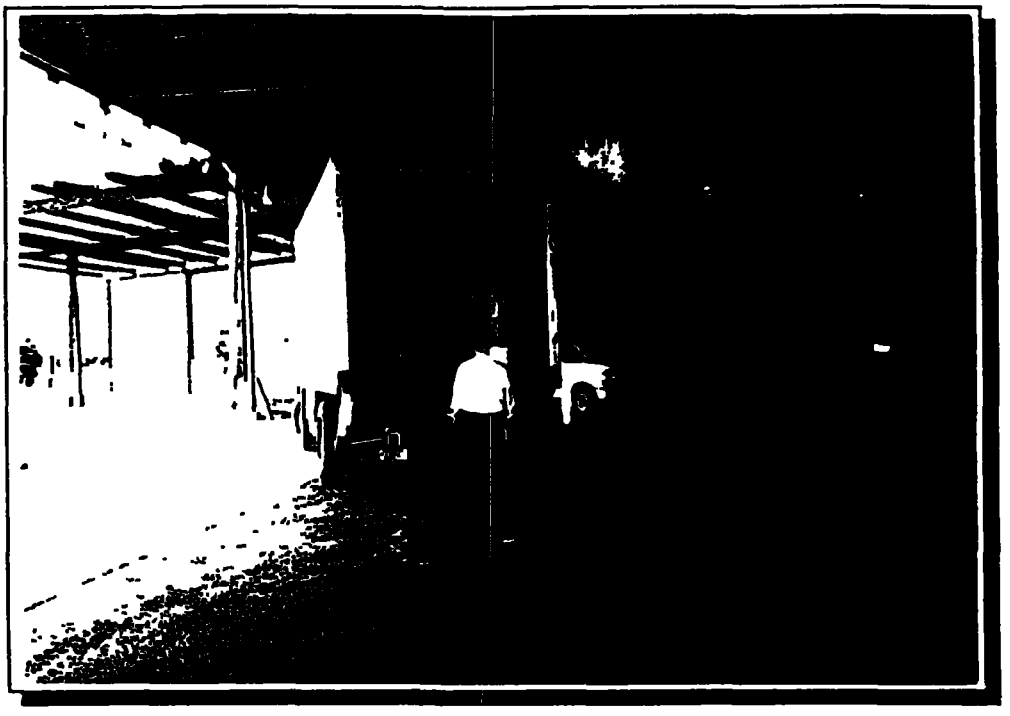
Liquids and Solids Inventory
Louisiana Pacific Corporation
Alexandria, Louisiana
Building 34

Item #	Quantity	Container Type	Volume	Product	Location	Notes
1	1	1 gal steel can	full	March K 1 Block Stencil Ink		contains naptha bottom 1/3 solidified
2	1	1 gal paint can	1/3 full	Sher Will solidified paint		OSHA yellow
3	8	fire exting				
4	1	1 gal container	full	Sher Will Chemical Coatings Kem Lustral Enamel		Dark green, contains lead
5	1	plastic container	9 10 oz oily substance			
6	1	16 oz glass container	2/3 full	ink		blue identified by Shorty as ink
7	1	1 gal container	1/3 1/2 full	Sher Will Ultra Deep Base Industrial Enamel		solidified, open can
8	1	10 oz spray can	1/3 full	Brite Torch Spray Paint		no lead or fluorocarbons
9	1	1 gal can	residual	appears to be a dried grease		reddish brown,
10	1	1 gal paint can	1/4 full	Devoto paint		solidified, yellow contains lead
11	1	1 quart can	1/2 full	Sher Will Graphite Art Finish		grime bulletin color contains mineral spirits combustible solidified
12	1	11 oz spray can	1/3 full	Spar Var spray paint		contains petroleum distillates, no lead
13	2	2 gal plastic containers	full	water based paint		reddish orange confirmed by Shorty
14	1	16 oz can	2/3 full	Class F Polyurethane Red Insulation		no fluorocarbons
15	2	1 gal steel container	3/4 to full	Ivongan Moose Easy Flow Face Primer Black		
16	1	1 gal can	residual	March Stencil Ink		contains petroleum naptha
17	1	1 gal plastic container	1/4 full	oily material		
18	1	1/2 of a 55 gal drum	full	tar like material	south exterior side	black, solidified, there are also 3 "blobs" of this tar nearby (approx 30-40 lbs)
19	1	1 gal paint can	3/4 full	Duruna High Gloss/Speed Finish	east exterior side	yellow, contains aleph. hydro zinc chromate, Lead?
20	1	5 gal steel bucket	full	unknown oily substance	east exterior side	dark brown, viscous, no label
21	1	0 62 lb? steel container	2/3 full	Lion D200 Sealant Component	east exterior side	contains polyisocyanate
22	1	14 oz tube	1/3 full	Chevron Dura Lith Grease EP 2	east exterior side	

Photo Documentation

Attachment 2

ERM EnviroClean-Southwest, L.L.C.
3501 N. Causeway Blvd., Suite 200
Metairie, Louisiana 70002
(504) 831-6700

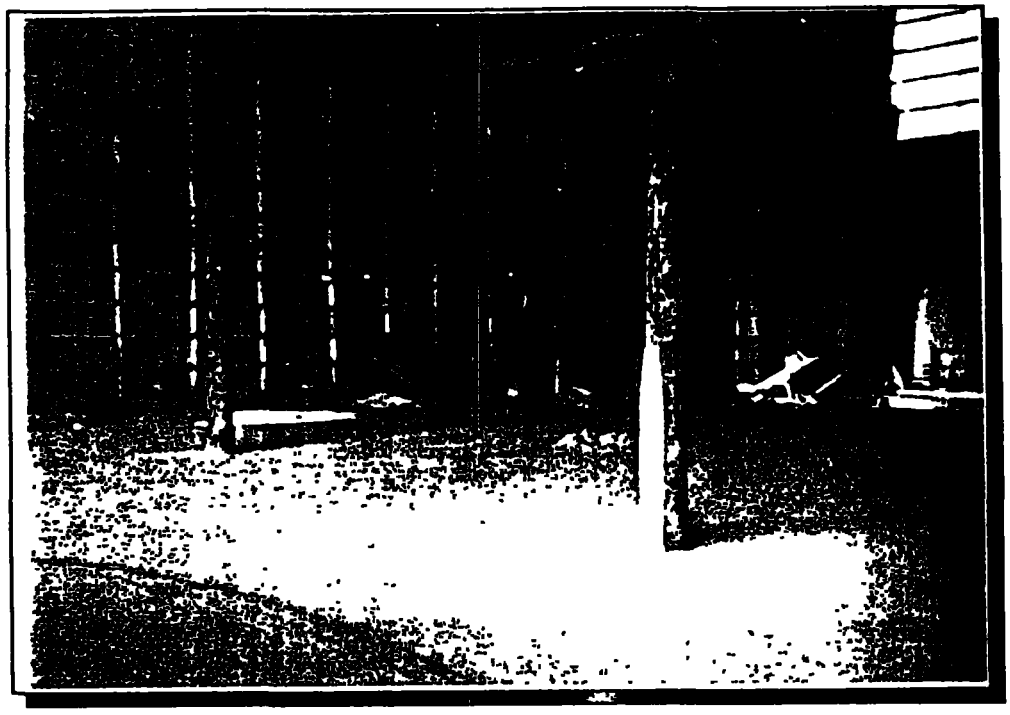


June 9, 1997 Photograph #1 Roll 1
Panel truck being used to transport wastes.

June 10, 1997 Photograph #2 Roll 1
Building Number 38: Waste staging area.

June 10, 1997 Photograph #3 Roll 1
View of the site to the South. Formerly a log storage area.

June 10, 1997 Photograph #4 Roll 1
Building #24: Post waste removal.

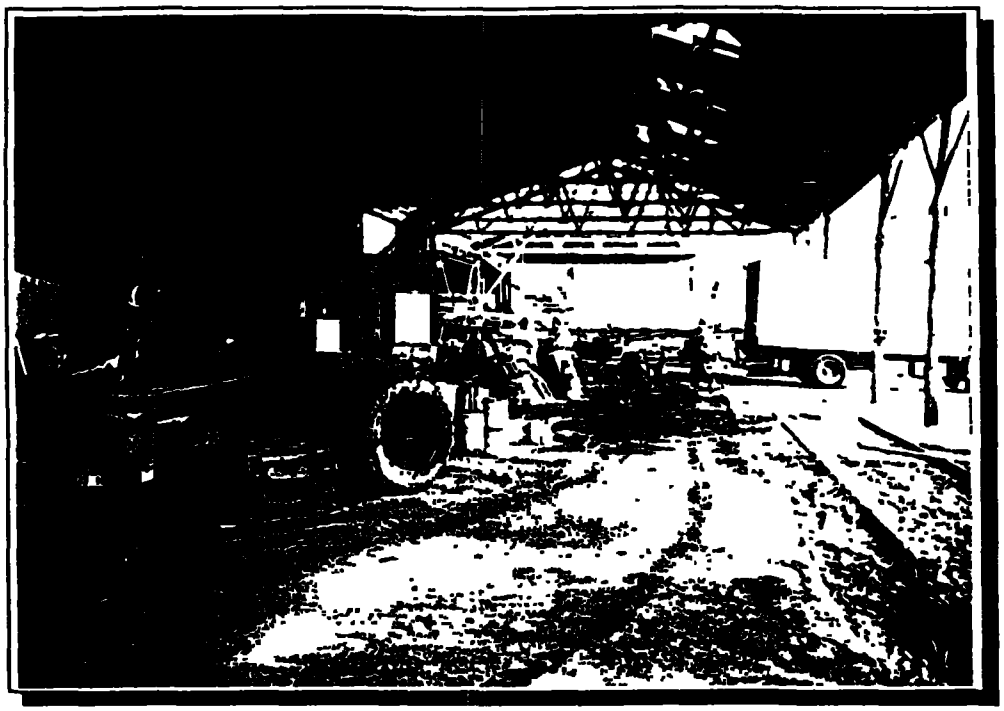


June 10, 1997 Photograph #5 Roll 1
Building #24: Post waste removal.

June 10, 1997 Photograph #6 Roll 1
Exterior of Building #23 following the collection of wastes.

June 10, 1997 Photograph #7 Roll 1
Staging area of wastes, trash, paint and 55 gallon drums containing PCB affected capacitors constructed by L-P personnel.

June 10, 1997 Photograph #8 Roll 1
Building #38: Non-PCB containing transformers.

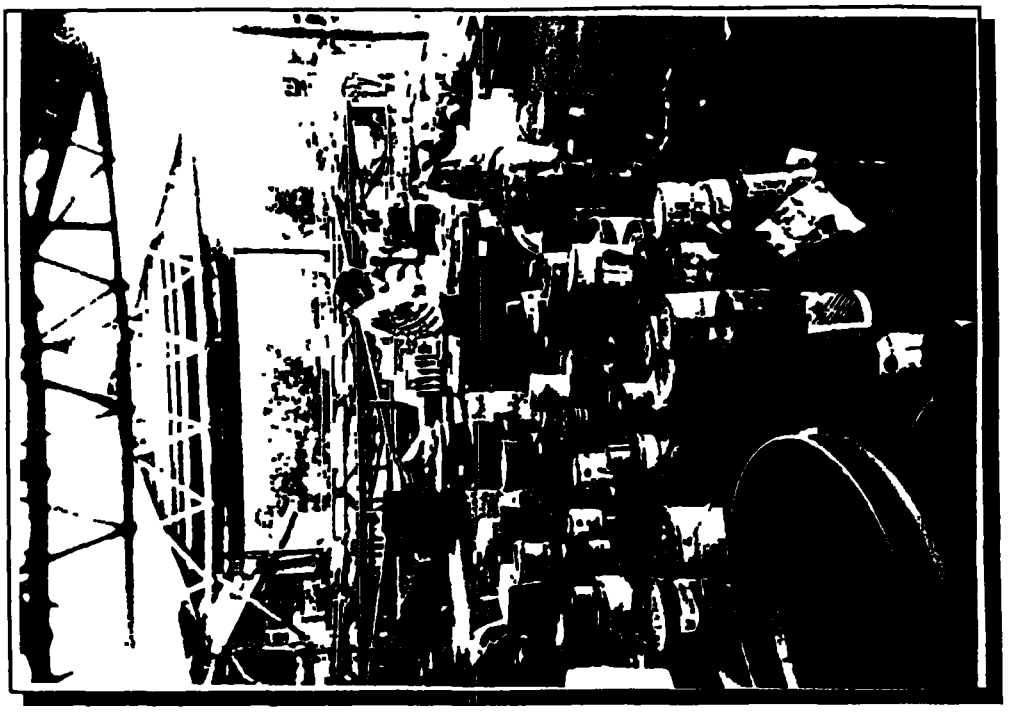


June 10, 1997 Photograph #9 Roll 1
Building #38: Staging area for wastes.

June 10, 1997 Photograph #10 Roll 1
Packing of wastes into Lab Pack boxes.

June 10, 1997 Photograph #11 Roll 1
Empty containers.

June 10, 1997 Photograph #12 Roll 1
Consolidating waste in a 55-gallon drum.

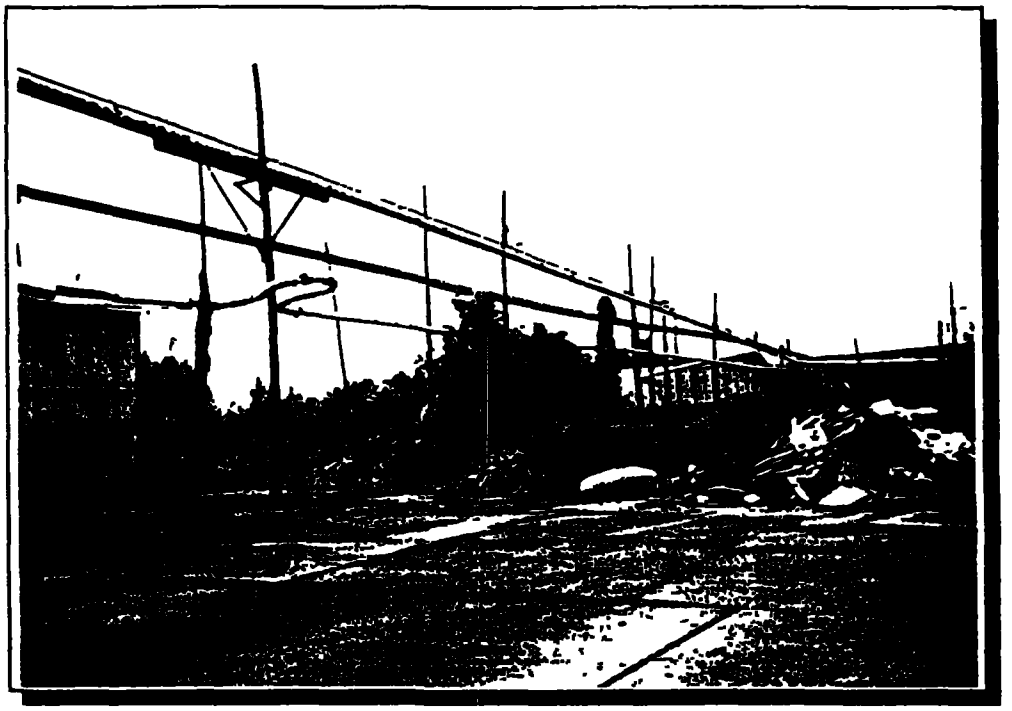


June 10, 1997 Photograph #13 Roll 1
Consolidating wastes into a 55-gallon drum.

June 10, 1997 Photograph #14 Roll 1
Consolidating wastes into a 55-gallon drum.

June 10, 1997 Photograph #15 Roll 1
Empty containers.

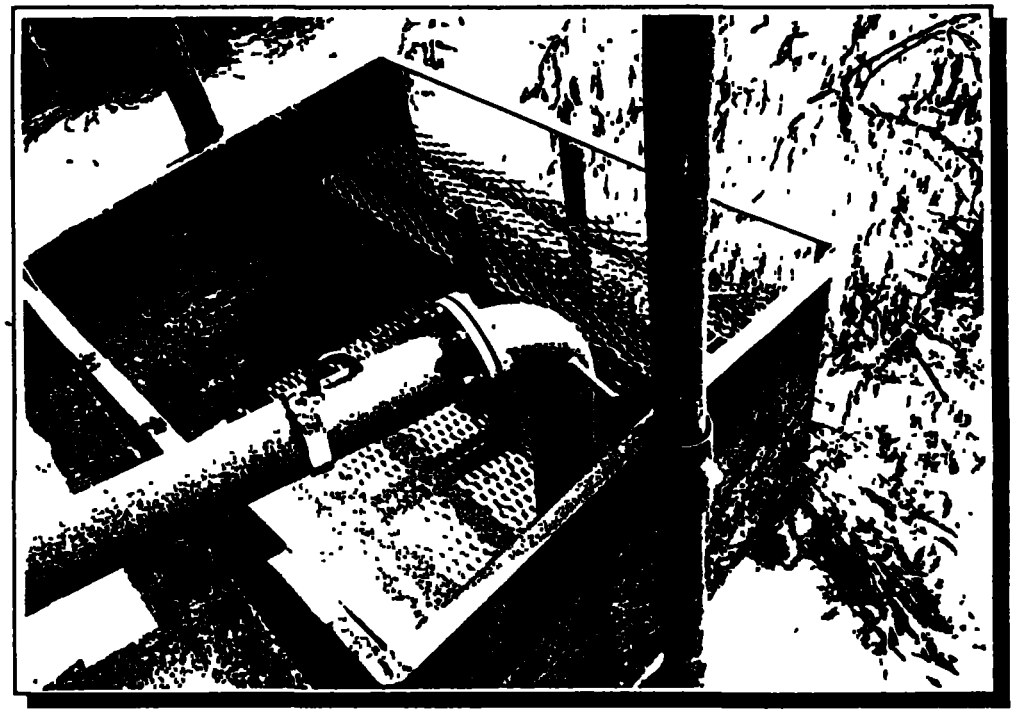
June 11, 1997 Photograph #16 Roll 1
Rubbish pile located between Kilns and Funnel House.



June 11, 1997 Photograph #17 Roll 1
Rubbish pile located between Kilns and Funnel House.

June 11, 1997 Photograph #18 Roll 1
Oil stained concrete located on the west side of Funnel House.

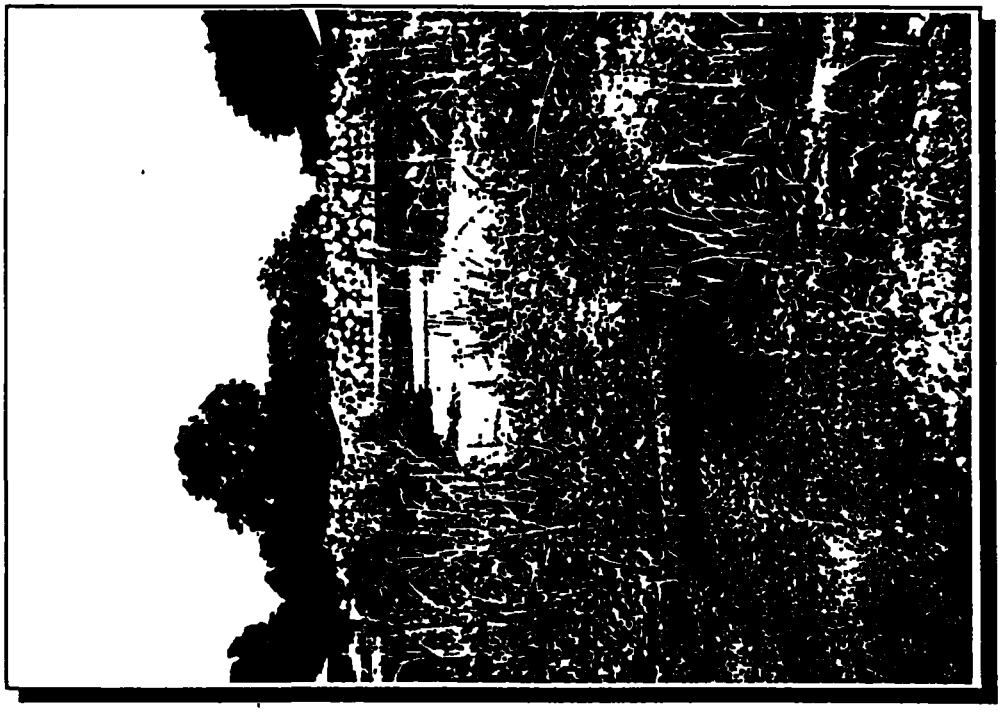
June 11, 1997 Photograph #19 Roll 1
Pond on north end of L-P property.



June 11, 1997 Photograph #20 Roll 1
Water intake in pond on north end of property.

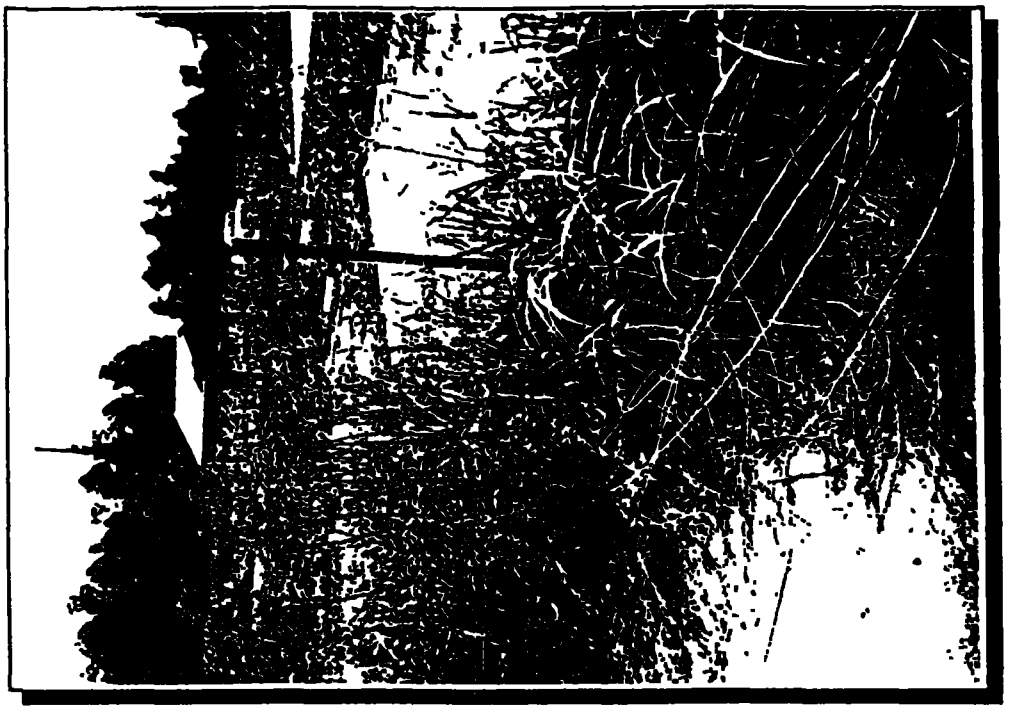
June 11, 1997 Photograph #21 Roll 1
Disconnected pipe running out of pond.

June 11, 1997 Photograph #22 Roll 1
Pond overflow ditch.



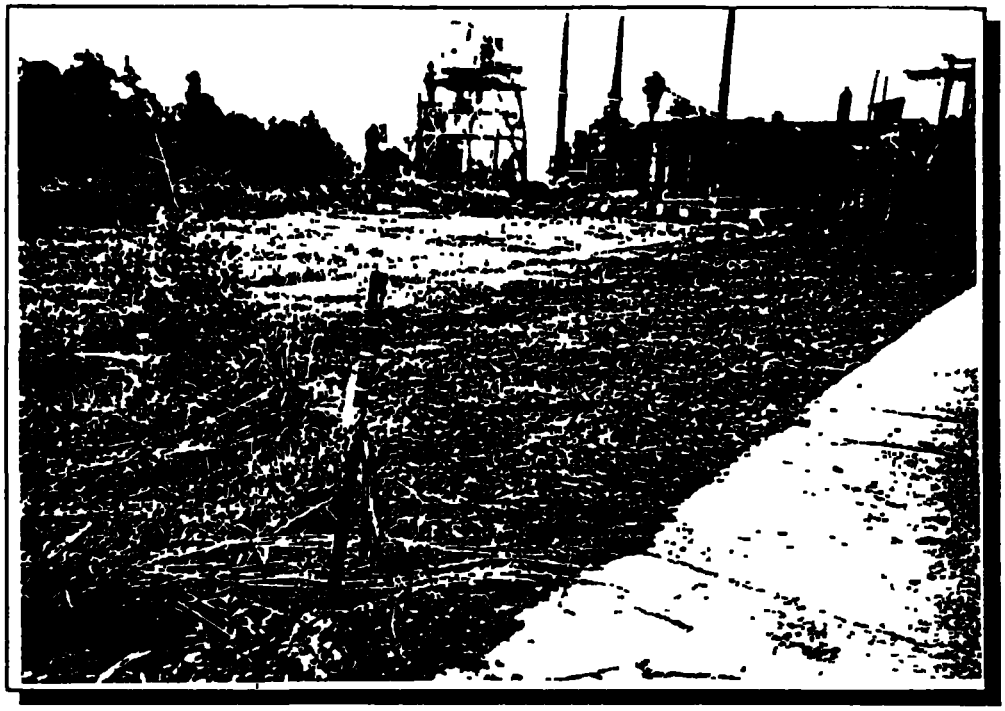
June 11, 1997 Photograph #23 Roll 1
Overview of pond; facing lumber laydown.

June 11, 1997 Photograph #24 Roll 1
Discharge line coming from pump next to pond.



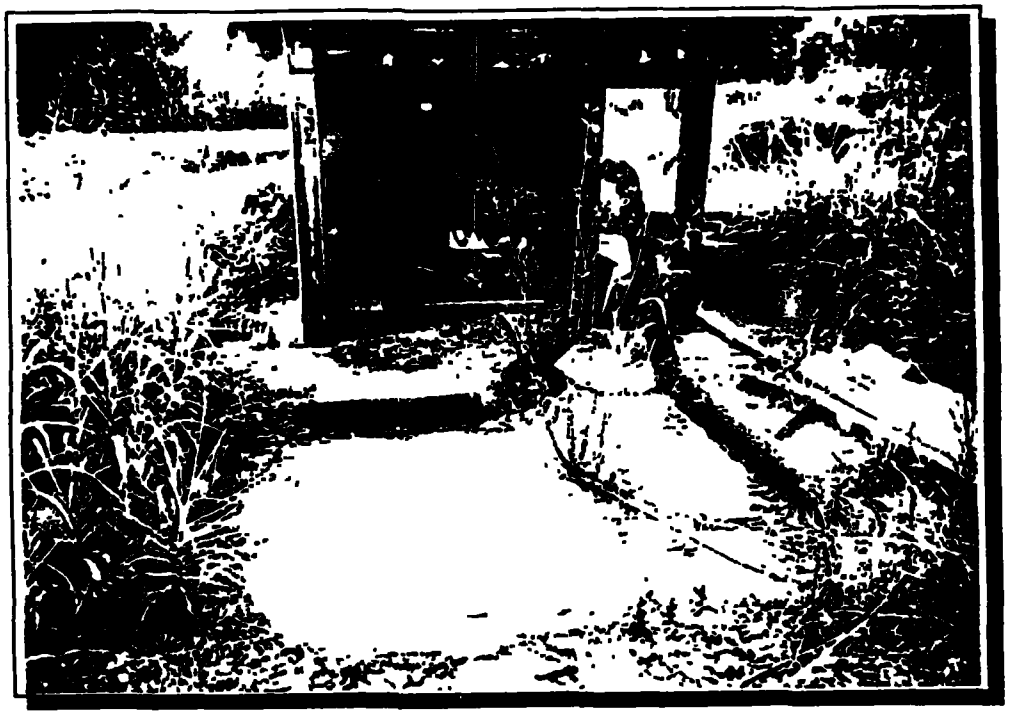
June 11, 1997 Photograph #25 Roll 1
First discharge pipe coming from pond.

June 11, 1997 Photograph #26 Roll 1
Second discharge pipe coming from pond.

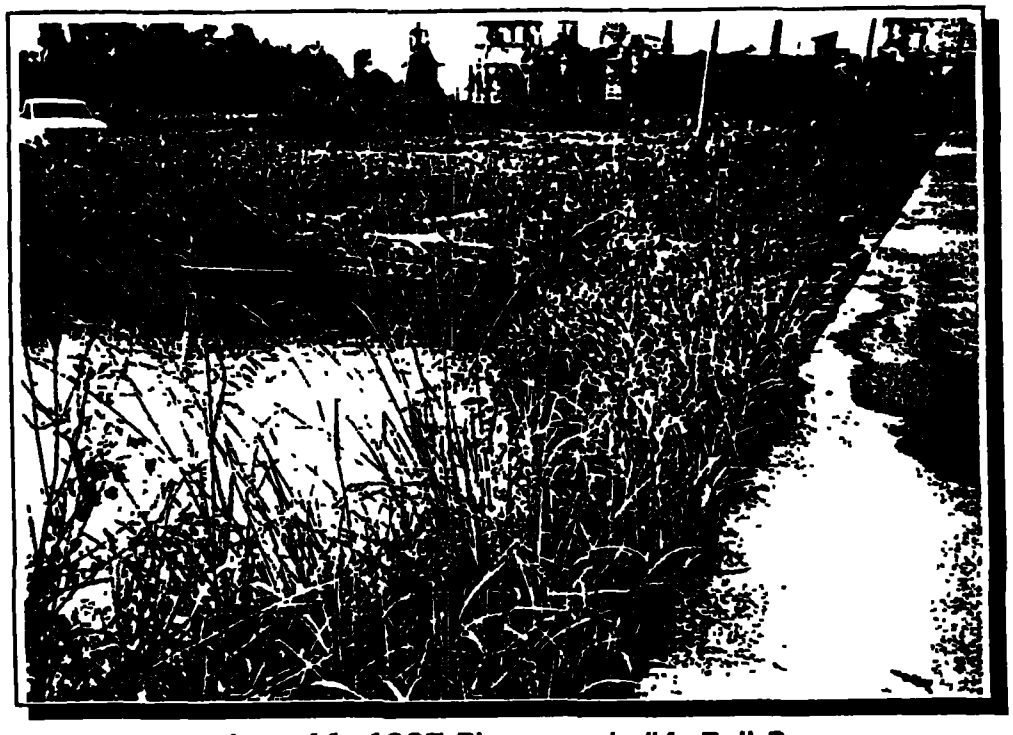


June 11, 1997 Photograph #1 Roll 2
Discharge pipe coming from pond.

June 11, 1997 Photograph #2 Roll 2
Discharge pipe coming from pond.

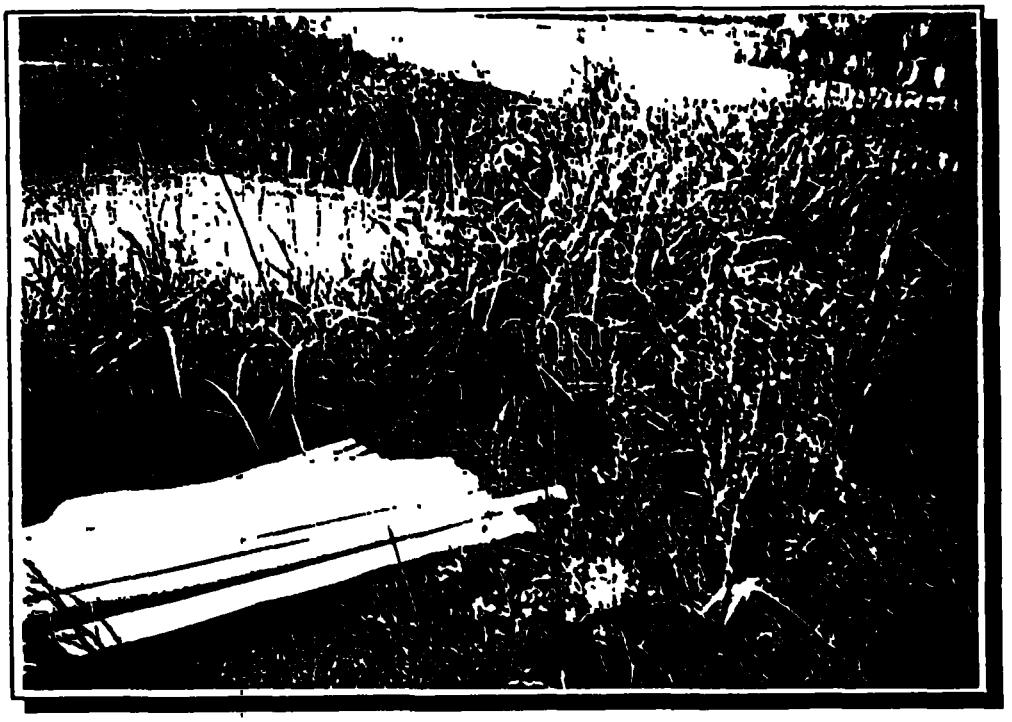


June 11, 1997 Photograph #3 Roll 2
Pump and pump shed.



June 11, 1997 Photograph #4 Roll 2
View of pond where it intersects log laydown area.

June 11, 1997 Photograph #5 Roll 2
Discharge pipe coming from pond.



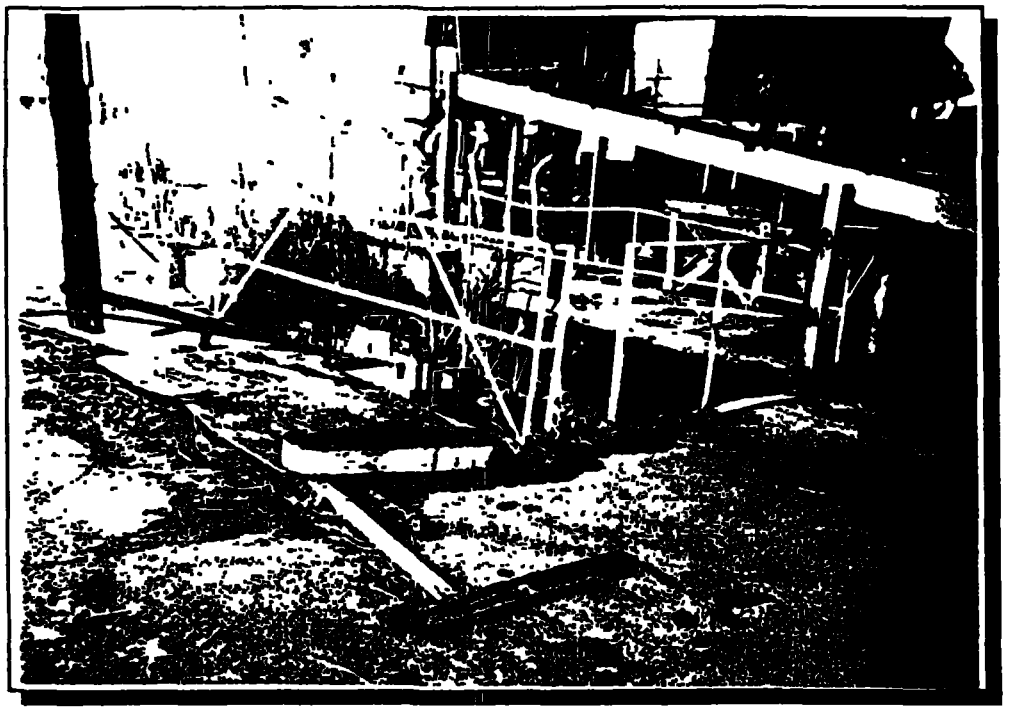
June 11, 1997 Photograph #6 Roll 2
Pipe coming from pond.

June 11, 1997 Photograph #7 Roll 2
Hose adjacent to pond. Appears to run towards railroad tracks through brush.

June 11, 1997 Photograph #8 Roll 2
Hose adjacent to pond. Appears to run towards railroad tracks through brush.

June 11, 1997 Photograph #9 Roll 2
Side of pond closest to rail tracks where it appears
fill has been added.

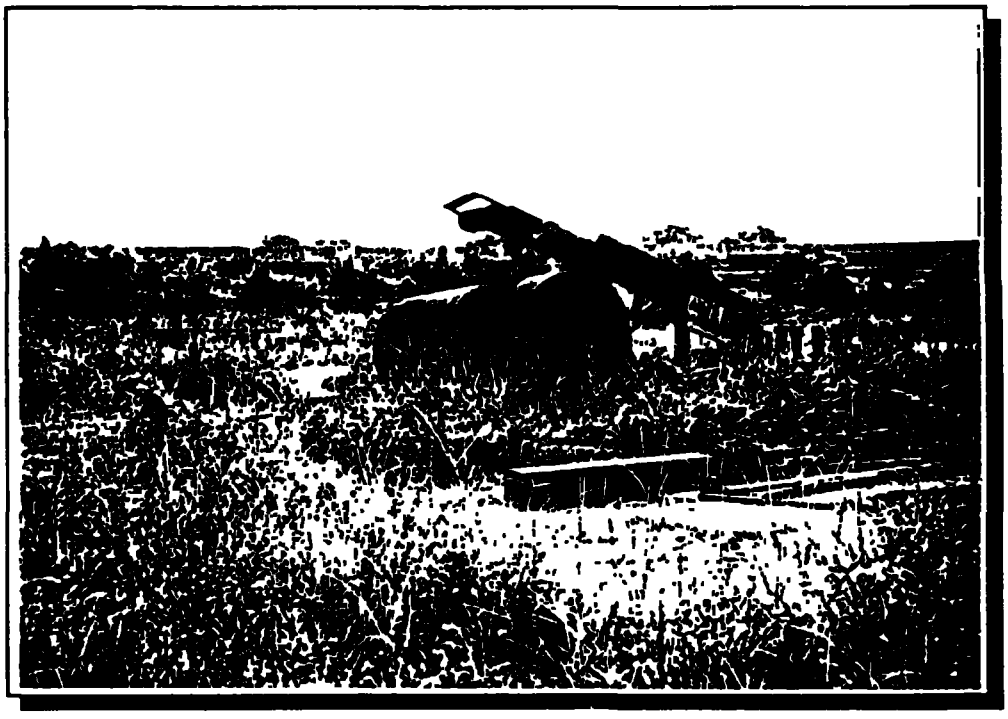
June 11, 1997 Photograph #10 Roll 2
View from pond to the south.



June 11, 1997 Photograph #11 Roll 2
First of two sumps located behind the
extension of Building #38.

June 11, 1997 Photograph #12 Roll 2
Second of the two sumps located behind
the extension of Building #38.

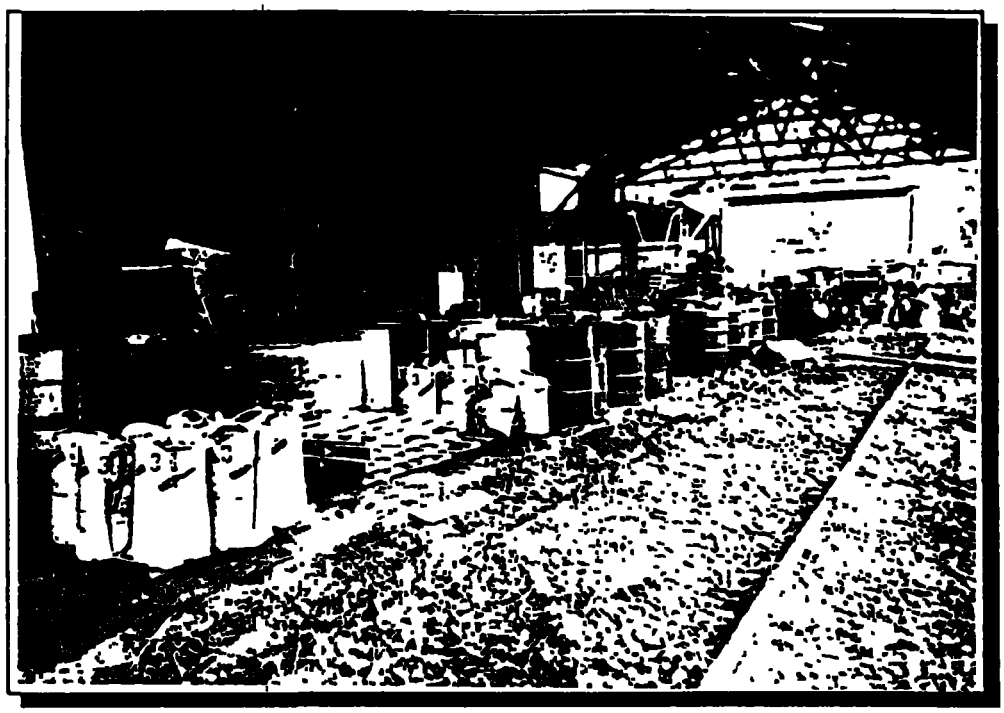
June 11, 1997 Photograph #13 Roll 2
UST #1.



June 11, 1997 Photograph #14 Roll 2
UST #2.

June 11, 1997 Photograph #15 Roll 2
AST #1.

June 11, 1997 Photograph #16 Roll 2
USTs 3, 4, 5, 6, and 7.



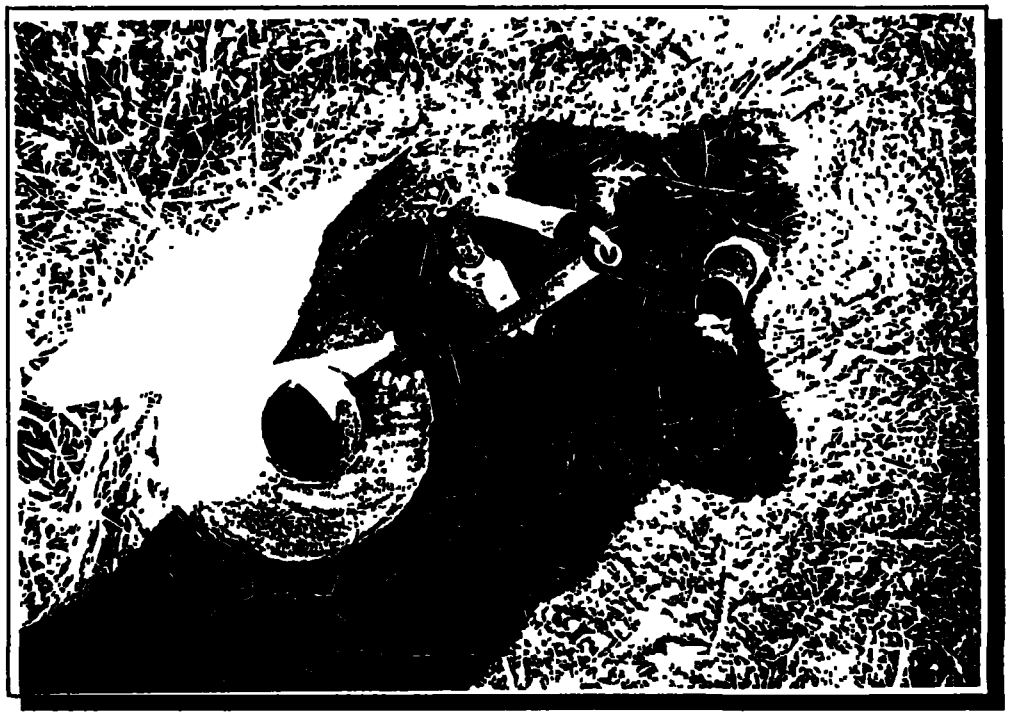
June 11, 1997 Photograph #17 Roll 2
Staging area for waste removal.

June 11, 1997 Photograph #18 Roll 2
Paint waste.

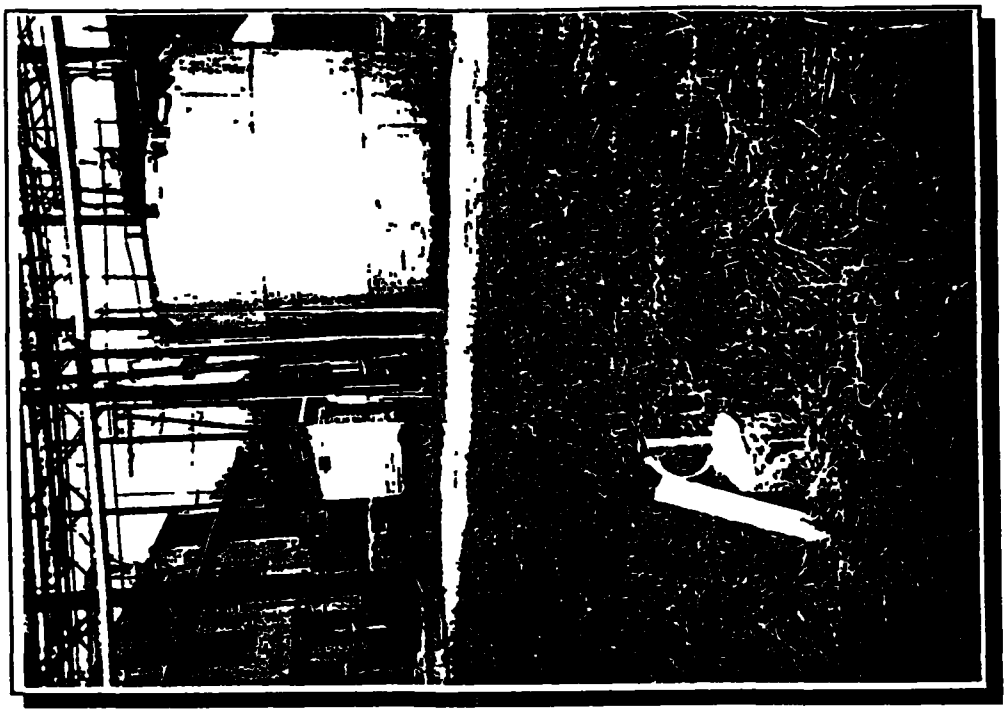
June 11, 1997 Photograph #19 Roll 2
Bark pile with garbage located on the west side of property between Buildings 24 and 40.

June 11, 1997 Photograph #20 Roll 2
Bark pile with garbage located on the west side of the property between Buildings 24 and 40.

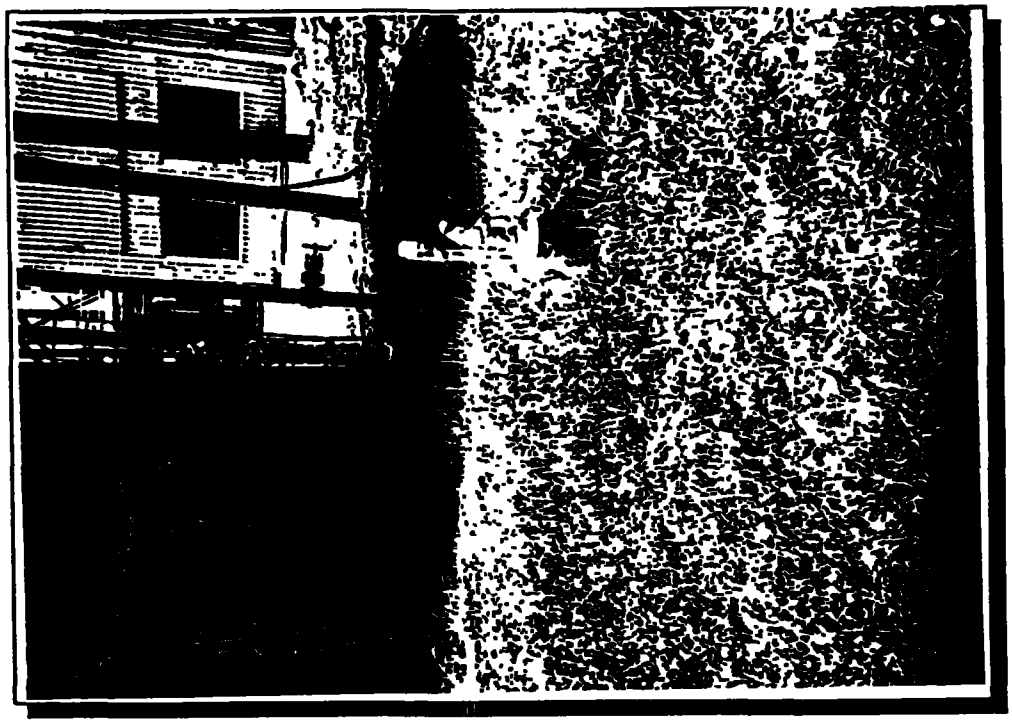
June 11, 1997 Photograph #21 Roll 2
Large above-ground water storage tank.



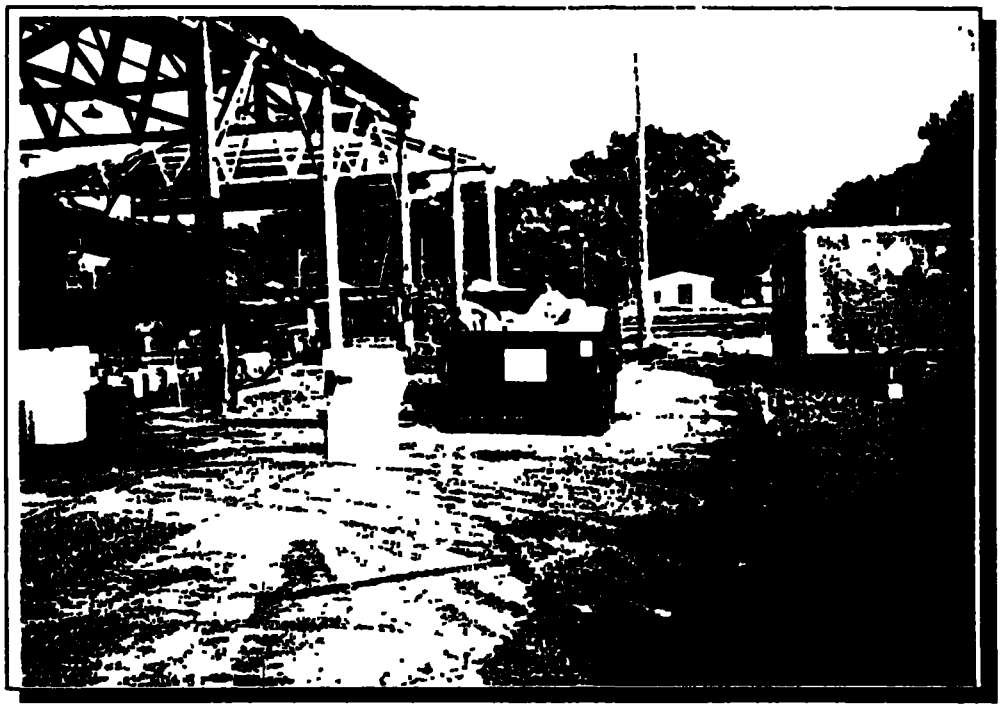
June 11, 1997 Photograph #22 Roll 2
Overview of Well #1.



June 11, 1997 Photograph #23 Roll 2
Well, board, and electrical setup for Well #1.



June 11, 1997 Photograph #24 Roll 2
Well #2.



June 12, 1997 Photograph #1 Roll 3
Dumpster filled with empty cans and trash.

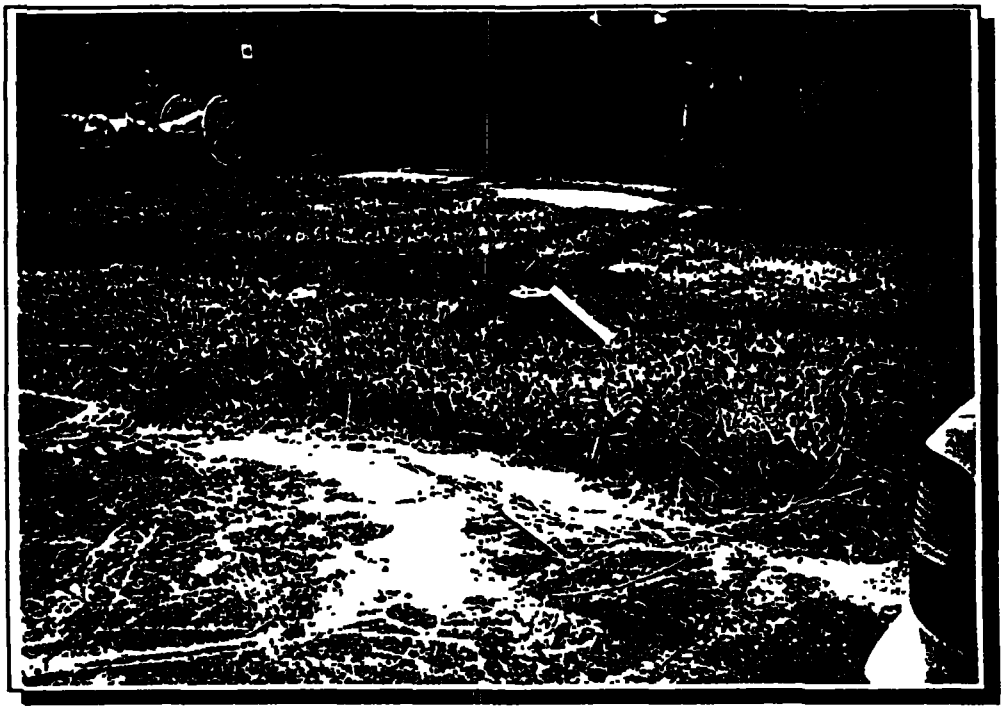
June 12, 1997 Photograph #2 Roll 3
Smaller of two above-ground water storage tanks.
This one is believed to feed wet storage pond.

June 12, 1997 Photograph #3 Roll 3
Sump adjacent to Fuel House.

June 12, 1997 Photograph #4 Roll 3
In-use above ground storage tanks with steel sump.

June 12, 1997 Photograph #5 Roll 3
Above-ground water tank adjacent to newer Kilns.

June 12, 1997 Photograph #6 Roll 3
Wastes being packed and labeled for shipment.

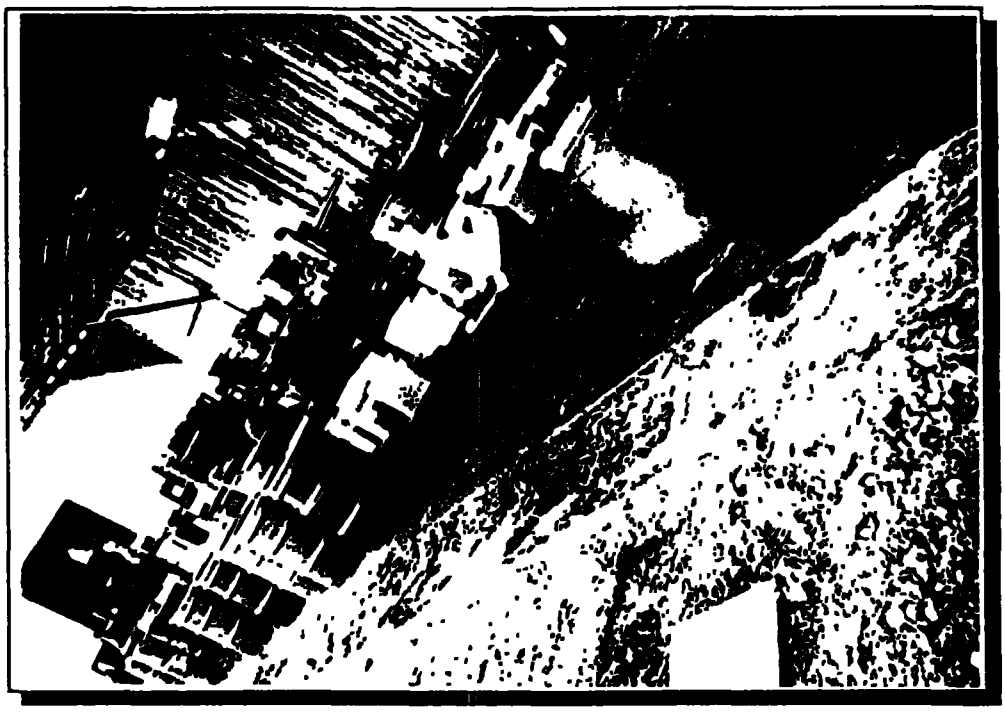


June 12, 1997 Photograph #7 Roll 3
Well #1 with newly installed locking cap.

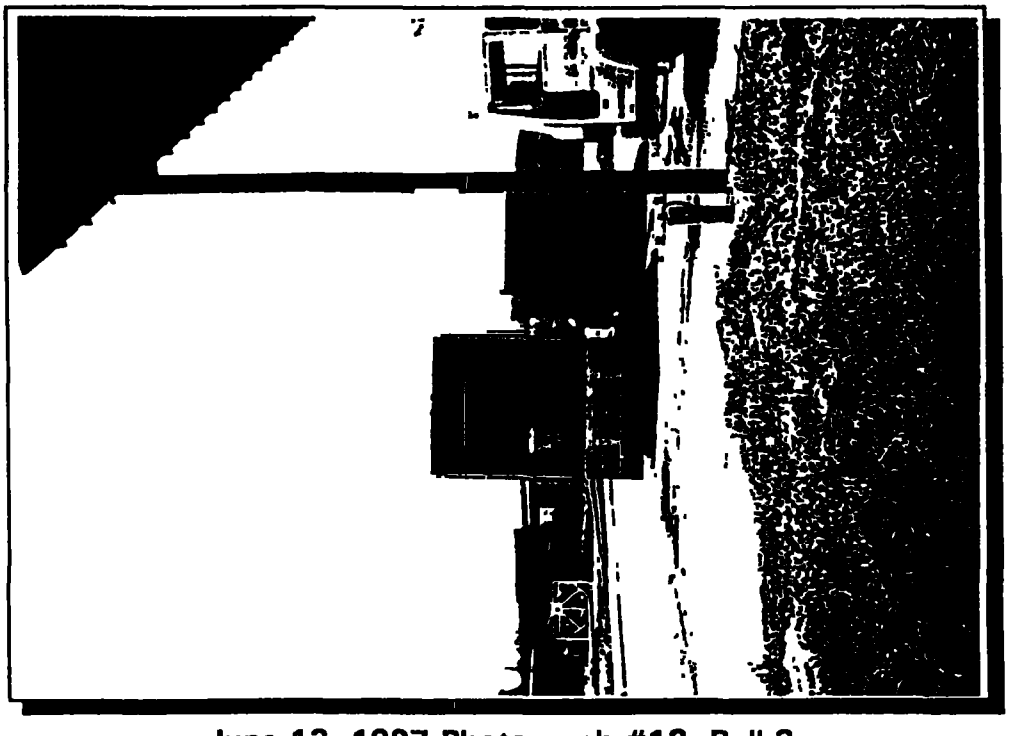
June 12, 1997 Photograph #8 Roll 3
Drainage ditch behind shop and office.

June 12, 1997 Photograph #9 Roll 3
Entrance into Applewhite facility.

June 12, 1997 Photograph #10 Roll 3
Building #38: Oil stained floor and ground.



June 12, 1997 Photograph #11 Roll 3
Building #38: Flood post oil removal.



June 12, 1997 Photograph #12 Roll 3
Semi-trailer being loaded with 55-gallon drums.

June 12, 1997 Photograph #13 Roll 3
Semi-trailer being loaded.

June 12, 1997 Photograph #14 Roll 3
Building #38: Post waste removal.

June 12, 1997 Photograph #15 Roll 3
Pond at Applewhite facility.

June 12, 1997 Photograph #16 Roll 3
Pond at Applewhite facility.

June 12, 1997 Photograph #17 Roll 3
Pond at Applewhite facility.

June 12, 1997 Photograph #18 Roll 3
Oil stained concrete located on the west side of the
Funnel House after excess was removed.

Hazardous Waste Manifest and Land Disposal Notification

Attachment 3

ERM EnviroClean-Southwest, L.L.C.
3501 N. Causeway Blvd., Suite 200
Metairie, Louisiana 70002
(504) 831-6700

Hazardous Waste Manifest and Land Disposal Notification

Attachment 3

ERM EnviroClean-Southwest, L.L.C.
3501 N. Causeway Blvd., Suite 200
Metairie, Louisiana 70002
(504) 831-6700

recycled paper

ecology and environment

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
P.O. Box 13087
Austin, Texas 78711-3087

Please print or type (Form designed for use on elite (12 pitch) typewriter)

Form approved OMB No 2050-0039, expires 09/30/95

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: LAD093547495 | Manifest Document No: 11701 | 2 Page 1 of 4

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
LOUISIANA PACIFIC CORP. 1030 FENNER ROAD ALEXANDRIA LA 71301

4 Generator's Phone (281) 579-1135

A State Manifest Document Number: [redacted]

B State Generator's ID: [redacted]

5 Transporter 1 Company Name: TRI STATE MOTOR TRANSIT CO.

6 US EPA ID Number: MOD095038998

C State Transporter's ID: [redacted]

D Transporter's Phone: [redacted]

7. Transporter 2 Company Name:

8. US EPA ID Number:

E State Transporter's ID: [redacted]

F Transporter's Phone: [redacted]

9 Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT/AETS 3.5 MILES WEST OF TAYLOR S
BAYLOU HIGHWAY 73
PORT ARTHUR TX 77640

10. US EPA ID Number: TXD000838898

G State Facility's ID: [redacted]

H Facility's Phone: [redacted]

11A HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No	Type	13 Total Quantity	14. Unit Wt/Vol	Waste No
X	a WASTE AEROSOLS, FLAMMABLE 2.1,UN1950,II	001	CF	00040	P	NONE
X	b WASTE PAINT RELATED MATERIAL INCLUDING PAINT THINNING, DRYING, REMOVING, OR REDUCING COMPOUND 3,UN1263,II	001	DF	00400	P	D001
X	c WASTE PAINT RELATED MATERIAL INCLUDING PAINT THINNING, DRYING, REMOVING, OR REDUCING COMPOUND 3,UN1263,II	002	DM	00800	K	D001
X	d. WASTE FLAMMABLE LIQUIDS, n.o.s. (METHANOL) 3,UN1993,III	001	DM	00400	K	F003

J Additional Descriptions for Materials Listed Above: [redacted]

K Handling Codes for Wastes Listed Above: [redacted]

15 Special Handling Instructions and Additional Information

PACKING SLIPS ATTACHED FOR CLARIFICATION EMERGENCY PHONE 888 353-2387

16 GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford

Printed/Typed Name	Signature	Month Day Year
JASON SANDERS	Jason Sanders	06 12 97

17 Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Jim Finch	Jim Finch	06 12 97

18 Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

19 Discrepancy Indication Space

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Month Day Year

GENERATOR / TRANSPORTER / FACILITY

TNRCC-0311 (Rev 07/13/94) White - original Pink-TSD Facility Yellow-Transporter Green-Generator's first copy

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21 Generator's US EPA ID No	Manifest Document No	22 Page	Information in the shaded areas is not required by Federal law
	LAD093547495	11701	2 of 4	

23 Generator's Name
LOUISIANA PACIFIC CORP. 1030 FENNER ROAD ALEXANDRIA, LA 71301
(281) 579-1135

L State Manifest Document Number: TX01257105

M State Generator's ID:

24 Transporter 1 Company Name: TRI STATE MOTOR TRANSIT CO.

25 US EPA ID Number: MOD095038998

N State Trans ID: 40355

O. Trans. Phone: 800 234-8763

26 Transporter 2 Company Name:

27 US EPA ID Number:

P State Trans ID:

Q Trans Phone:

	28 US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM		29 Containers No	Type	30 Total Quantity	31 Unit Wt/Vol	R Waste No
a	WASTE FLAMMABLE SOLIDS, ORGANIC, n.o.s. 4.1,UN1325,II	X		015	CF	00600	P	D001
b	WASTE FLAMMABLE SOLIDS, ORGANIC, n.o.s. 4.1,UN1325,II	X		001	CF	00040	P	D001
c	WASTE FLAMMABLE SOLIDS, ORGANIC, n.o.s. (PAINT) 4.1,UN1325,II	X		001	DF	00400	P	D001
d	WASTE FLAMMABLE SOLIDS, ORGANIC, n.o.s. 4.1,UN1325,III	X		011	CF	00440	P	D001
e	WASTE OXIDIZING LIQUID, n.o.s. 5.1,UN3139,II	X		001	DF	00000	P	D001
f	WASTE CORROSIVE LIQUIDS, n.o.s. 8,UN1760,II	X		001	DM	00175	P	D002
g	WASTE CORROSIVE LIQUID, BASIC, ORGANIC, n.o.s. (DIETHYL ETHANOLAMINE 10-30%) 8,UN3267,II	X		001	DM	00400	P	D002
h	WASTE CORROSIVE LIQUIDS, n.o.s. 8,UN1760,II	X		001	DF	00400	P	D002
i	CORROSIVE SOLID,BASIC,INORGANIC, n.o.s. 8,UN3262,III	X		002	DM	00300	P	D002

S Additional Descriptions for Materials Listed Above
A)S/T PTA251775 / TWIBQ7679 B)S/T PTA251775 / TWIBQ7679 C)S/T PTACA4802 / SYSAA11743 D)S/T PTA251775 / TWIBQ7679 E)PTA251775 / TWIBQ7679 F)S/T PTABQ7775 / LCHBQ7775 G)S/T PTABQ7956 / LCHBQ7956 H)S/T PTABX8253 / LCHBX8253 I)S/T PTABQ7954 / T

T Handling Codes for Wastes Listed Above
A. 0013
B. 0013
C. 0013
D. 0013
E. 0013
F. 0013
G. 0013
H. 0013
I. 0013

32 Special Handling Instructions and Additional Information
PACKING SLIPS ATTACHED FOR CLARIFICATION EMERGENCY PHONE 888 353-2367
BILL AETS BAYTOWN. COST CENTER # 749. PROJECT # 97P003.

33 Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year

34 Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

35 Discrepancy Indication Space

Recycled paper

Ecology and environment

EPA Form 8700-22A (Rev 9-86) Previous edition is obsolete

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21 Generator's US EPA ID No: LAD093547495	Manifest Document No: 11701	22 Page: 3 of 4	Information in the shaded areas is not required by Federal law

23 Generator's Name: LOUISIANA PACIFIC CORP.
1000 FENNER ROAD
ALEXANDRIA, LA 71301
(2S1) 579-1135

L State Manifest Document Number: TX01257105

M. State Generator's ID:

24 Transporter 1 Company Name: TRI STATE MOTOR TRANSIT CO.
25 US EPA ID Number: MOD095038992

N State Trans ID: 40335
O. Trans. Phone: 800 234-8763

26 Transporter 2 Company Name:
27 US EPA ID Number:

P State Trans ID:
Q. Trans Phone:

	28 US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	29 Containers No	Type	30 Total Quantity	31 Unit Wt/Vol	R Waste No
a	WASTE CORROSIVE LIQUIDS, n.o.s. 8,UN1760,III	X	001	CF	[illegible] CHD	P	D002
b	RQ WASTE MERCURY 8,UN2809,III (RQ=D009)	X	001	DF	00020	P	D009
c	RQ POLYCHLORINATED BIPHENYLS 9,UN2315,II (RQ=PCB)	X	001	[illegible]	[illegible]	[illegible]	NONE
d	NON-REGULATED MATERIAL PER 40 [illegible] 49 CFR DOT NON-REGULATED.NONE		001	[illegible]	[illegible]		NONE
e	NON-REGULATED MATERIAL PER 40 [illegible] 49 CFR DOT NON-REGULATED.NONE.II		001	[illegible]	[illegible]		NONE
f	NON-REGULATED MATERIAL PER 40 [illegible] 49 CFR DOT NON-REGULATED.NONE.III		001	[illegible]	[illegible]		NONE
g	NON-REGULATED MATERIAL PER 40 [illegible] 49 CFR DOT NON-REGULATED.NONE.III		001	[illegible]	[illegible]	[illegible]	NONE
h	NON-REGULATED MATERIAL PER 40 [illegible] 49 CFR DOT NON-REGULATED.NONE.III		001	[illegible]	[illegible]		NONE
i	NON-REGULATED MATERIAL PER 40 [illegible] 49 CFR DOT NON-REGULATED.NONE.III		001	[illegible]	[illegible]	[illegible]	NONE

S Additional Descriptions for Materials Listed Above
A)S/T PTA251775 / TWIBQ7679 B)S/T PTABR4308 / AER000508TX C) [illegible])PTA251753 D)S/T PTA251775 / TWIBQ7679 E)S/T PTABQ7986 / LCH BQ7986 F)PTA251775 / TWIBQ7679 G)S/T PTA25775 / TWIBQ7679 H) S/T PTABQ7972 / LCHBQ7972 I)S/T PTABQ7974 / LCHBQ7974

T Handling Codes for Wastes Listed Above
[illegible] I [illegible]

32 Special Handling Instructions and Additional Information
PACKING SLIPS ATTACHED FOR CLARIFICATION EMERGENCY PHONE 888 [illegible]

TRANSPORTER

33 Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

34 Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

35 Discrepancy Indication Space

EPA Form 8700-22A (Rev 9-86) Previous edition is obsolete

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form Approved OMB No 2050-0039 Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21 Generator's US EPA ID No	Manifest Document No	22 Page	Information in the shaded areas is not required by Federal law
	LAD093547495	11701	4 of 4	

23 Generator's Name
LOUISIANA PACIFIC CORP. 1030 FENNER ROAD
ALEXANDRIA, LA 71301
(281) 579-1135

L State Manifest Document Number: TX01257105

M State Generator's ID:

24 Transporter 1 Company Name: TRI STATE MOTOR TRANSIT CO.

25 US EPA ID Number: MOD095038998

N State Trans. ID: 40355

O Trans. Phone: 800 234-8768

26 Transporter 2 Company Name:

27 US EPA ID Number:

P State Trans ID:

Q. Trans. Phone:

	28 US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	29 Containers No	Type	30 Total Quantity	31 Unit Wt/Vol	R Waste No
a	NON-REGULATED MATERIAL PER 40 & 49 CFR DOT NON-REGULATED,NONE,III	001	DF	00400	[illegible]	NONE
b	NON-REGULATED MATERIAL PER 40 & 49 CFR DOT NON-REGULATED,NONE,III	001	DM	00400	[illegible]	NONE
c	NON-REGULATED MATERIAL PER 40 & 49 CFR DOT NON-REGULATED,NONE,III	009	DM	00600	[illegible]	NONE
d	NON-REGULATED MATERIAL PER 40 & 49 CFR DOT NON-REGULATED,NONE,III	[illegible]	DM	[illegible]		NONE
e						
f						
g						
h						
i						

S Additional Descriptions for Materials Listed Above
A)S/T PTABQ7986 / LCHBQ7986 B)S/T PTACA4801 / SYSAA13132 C)S
S/T PTABQ7970 / LCHBQ7970 D)S/T PTABQ7972 / LCHBQ7972

T Handling Codes for Wastes Listed Above
A
B
C
D

32 Special Handling Instructions and Additional Information
PACKING SLIPS ATTACHED FOR CLARIFICATION EMERGENCY PHONE 888 353-2387

33 Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year

34 Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

35 Discrepancy Indication Space

Transported per

Ecology and environment

EPA Form 8700-22A (Rev 9-86) Previous edition is obsolete

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM

Page 1 of ____

enerator Name. Louisiana Pacific Corp EPA ID # LAD093547495 State Manifest No. 0125 7105

If waste is a wastewater (see 40 CFR 268 2) place "w" next to the applicable code(s)

If waste is subject to any California List restriction enter the letter from below next to each restriction that is applicable. __ HOC, __ PCBs, __ Metals __ Acid

CODES WITH SUBCATEGORIES (place appropriate letter from section 9 before each code that applies) (See 40 CFR 268 for details)

__ D001 Hi-TOC	___ D003 Unexp Ord Emg	___ K006 Hydrated	___ P047 Salts	___ P092 Hi Inc//RMERC Res
__ D001 < 10% TOC-CWA	___ D003 Other Reactives	___ K006 Anhydrous	___ P047 Nonsalts	___ U151 Lo RMERC Res
__ D001 < 10% TOC-Non/CWA	___ D006 Batteries	___ K069 Calcium Sulfate	___ P065 Lo Inc Res	___ U151 Lo Not RMERC Res
__ D002 Non-CWA	___ D008 Lead acid batteries	___ K069 Not Calcium Sulfate	___ P065 Lo RMERC Res	___ U151 Hi Hg
__ D002 CWA	___ D009 Organic Hg > 260ppm	___ K071 Rmerc Res	___ P065 Not Inc./RMERC Res	___ U240 2, 4 D
__ D003 Reactive Cyanide	___ D009 Inorg Hg > 260	___ K071 Not Rmerc Res	___ P065 Hi Inc./RMERC Res	___ U240 2, 4 esters & Salts
__ D003 Reactive Sulfide	___ D009 Hg < 260	___ K106 Lo Rmerc Res	___ P092 Lo Inc Res	
__ D003 Explosive	___ F025 Light ends	___ K106 Not Rmerc Res	___ P092 Lo RMERC Res	
__ D003 Water Reactives	___ F025 Spent filter	___ K106 > 260 ppm Hg	___ P092 Not Inc/RMERC Res	

e subcategory for D018-D043 waste is "treated in nonCWA/nonSDWA facility" unless the following box is checked ☐ "treated in CWA/SDWA facility"

COMMON CODES (Place appropriate letter from section 9 before each code that applies)

__D004	___D005	___D006	A D007	___D008	___D009	___D010	___D011	___D012	___D013	___D014	___D015	___D016	___D017	___D018	___D019
__D020	___D021	___D022	___D023	___D024	___D025	___D026	___D027	___D028	___D029	___D030	___D031	___D032	___D033	___D034	___D035
__D036	___D037	___D038	___D039	___D040	___D041	___D042	___D043	___F001	___F002	___F003	___F004	___F005	___U002	___U003	___U006
__U007	___U044	___U061	___U072	___U080	___U108	___U117	___U122	___U123	___U136	___U154	___U188	___U213	___U220	___U226	___U279
__P012	___P030	___P051	___P098	___P105	___P205	___F006	___F007	___F008	___F009	___F010	___F011	___F012	___F019	___F039	___K061

DDITIONAL CODES (Enter all codes not identified above which are associated with waste)

5 USEPA HAZARDOUS WASTE CODE(S)	6 TREATMENT STANDARDS FOR NON-PHASE II STATES (INDICATE THE APPLICABLE TREATMENT STANDARD 268 41, 268 43 OR SPECIFIED TECHNOLOGY BELOW)	7 HOW MUST THE WASTE BE MANAGED? ENTER THE LETTER FROM BELOW

dentify F039, or UHCs managed in non-CWA us the "F039/Underlying Hazardous Constituents Form" provided (CWM-2004) and check here ☐

o UHCs are present upon generation check here ☐ Check here if disposal facility will check for all UHCs ☐ (i e no UHC form required)

ist additional EPA waste code(s), use the supplemental sheet and check here ☐ In lieu of supplemental sheet you may use multiple copies of this form

SOLVENT CONSTITUENTS (F001 - F005) Check here if disposal facility will check for all spent solvents ___

__ Acetone	___ Benzene	___ n-Butyl alcohol	___ Carbon disulfide
__ Carbon Tetrachloride	___ Chlorobenzene	___ O-Cresol	___ Cresols (m&p)
__ Cyclohexanone	___ o-Dichlorobenzene	___ 2-Ethoxyethanol	✓ Ethyl acetate
__ Ethyl benzene	___ Ethyl ether	___ Isobutanol	___ Methanol
__ Methylene chloride	___ Methyl ethyl ketone	___ Methyl isobutyl ketone	___ Nitrobenzene
__ 2-Nitropropane	___ Pyridine	___ Tetrachloroethylene	___ Toluene
__ 1,1 1 Trichloroethane	___ 1, 1, 2-Trichloroethane	___ 1, 1, 2-Trichloro 1, 2, 2-trifluoroethane	___ Trichloroethylene
__ Trichloromonofluoromethane	___ Xylenes		

(States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below Where these regulatory citations differ your certification will be deemed to refer to those state citations instead of the 40 CFR citations)

RESTRICTED WASTE REQUIRES TREATMENT

This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D, 268 32, or RCRA Section 3004(d)

☐ For Hazardous Debris "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268 45 "

1 **RESTRICTED WASTE TREATMENT TO PERFORMANCE STANDARDS**

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR Part 268, Subpart D, and all applicable prohibitions set forth in 40 CFR 268 32 or RCRA section 3004(d) without impermissible dilution of the prohibited waste I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment "

2 **RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)**

"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268 42 I am aware that there are significant penalties for submitting a false certification including the possibility of fine and imprisonment "

3 **GOOD FAITH AND ANALYTICAL CERTIFICATION - FOR INCINERATED ORGANICS**

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264, Subpart O, or 40 CFR Part 265, Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents I am aware that there are a significant penalties for submitting a false certification, including the possibility of fine and imprisonment "

4 **DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS**

"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268 40 to remove the hazardous characteristic This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment "

RESTRICTED WASTE SUBJECT TO A VARIANCE

This waste is subject to a national capacity variance, a treatability variance or a case-by-case extension Enter the effective date of prohibition in column 7 above.

☐ For hazardous debris "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268 45 "

RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

"I have determined that this waste meets all applicable treatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition levels set forth in Section 268 32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment storage and disposal facility named above " "I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or thorough knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268 32 or RCRA Section 3004(d) I believe that the information I submitted is true, accurate and complete I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."

WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS

This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions

ereby certify that all information in this and all associated documents is complete and accurate, to the best of my knowledge and information

gnature Jason Sanders

PROJECT MGR., ENV. AFFAIRS Date 6/12/97

F039/UNDERLYING HAZARDOUS CONSTITUENT FORM (UTS)

Louisiana Pacific Corp

Manifest Doc No. 1 1 7 0 1

Number 4 1 1 7 4 3

State Manifest No. 01257105

UENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg)	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg)	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/kg)
		0.042[2]	1.4[2]	Bromomethane (methyl bromide)		0.11	15	Cyclohexane		0.042[2]	1.4[2]
		0.056	3.4	4-Bromophenyl phenyl ether		0.055	15	Cyclohexanone		0.36	0.75[1]
		0.059	3.4	n-Butanol (n-butyl alcohol)		5.6	2.6	1,2-Dibromo-3-Chloropropane		0.11	15
		0.059	3.4	Butyl benzyl phthalate		0.017	2.8	1,2-Dichloroethane (Ethylene dichloride)		0.028	15
		0.28	160	Butylate		0.042[2]	1.4[2]	Dibromomethane		0.11	15
		5.6	1.8[1]	2-sec-Butyl-4,6-dinitrophenol (Dinoseb)		0.056	2.5	1,4-Dichlorobenzene and 2-Ch		0.72	10
		0.010	9.7	Carbaryl		0.006[2]	0.14[2]	o,p-DDD		0.023	0.087
xane		0.059	140	Carbendazim		0.056[2]	1.4[2]	p,p-DDD		0.023	0.087
		0.25	NA	Carbofuran		0.006[2]	0.14	o,p-DDE		0.031	0.087
		19[2]	23[2]	Carbofuran phenol		0.056[2]	1.4[2]	p,p-DDE		0.031	0.087
		0.24	84	Carbon disulfide		3.8	4.8[1]	o,p-DDT		0.0039	0.087
		0.056[2]	0.28[2]	Carbon tetrachloride		0.057	6.0	p,p-DDT		0.0039	0.087[2]
		0.021	0.065	Carbosulfan		0.028[2]	1.4[2]	Dibenz(a,h)anthracene		0.055	8.2
		0.13	NA	Chlordane (alpha & gamma)		0.0033	0.26	Dibenz(a,e)pyrene		0.061	NA
		0.81	14	p-Chloroaniline		0.46	16	m-Dichlorobenzene		0.036	6.0
		0.057	3.4	Chlorobenzene		0.057	6.0	o-Dichlorobenzene		0.088	6.0
		0.36	NA	Chlorobenzilate		0.10	NA	p-Dichlorobenzene		0.090	6.0
		0.003[4]	0.066	2-Chloro-1,3-butadiene		0.057	0.28[2]	Dichlorodifluoromethane		0.23	7.2
		0.003[4]	0.066	Chlorodibromomethane		0.057	15	1,1-Dichloroethane		0.059	6.0
		0.023	0.056	Chloroethane		0.27	6.0	1,2-Dichloroethane		0.21	6.0
ane		0.0017	0.066	bis(2-Chloroethoxy) methane		0.036	7.2	1,1-Dichloroethylene		0.025	6.0
		0.056[2]	1.4[2]	bis(2-Chloroethyl) ether		0.033	6.0	trans-1,2-Dichloroethylene		0.054	30
		0.056[2]	1.4[2]	Chloroform		0.046	5.6	2,4-Dichlorophenol		0.044	14
		0.056[2]	1.4[2]	bis(2-Chloroisopropyl) ether		0.055	7.2	2,6-Dichlorophenol		0.044	14
		0.056	1.4[2]	p-Chloro-m-cresol		0.018	14	1,2-Dichloropropane		0.35	18
		0.14	10	2-Chloroethyl vinyl ether		0.062[2]	NA	cis-1,3-Dichloropropylene		0.036	18
e		0.059	3.4	Chloromethane (methyl chloride)		0.19	30	trans-1,3-Dichloropropylene		0.036	8
		0.055[2]	6.0[2]	2-Chloronaphthalene		0.055	5.6	Dieldrin		0.017	0.13
ene[2]		0.11	6.8	2-Chlorophenol		0.044	5.7	Diethyl phthalate		0.20	28
ene[2]		0.1[2]	6.8	3-Chloropropene		0.036	30	Diethylenetriamine (DETA)		0.056[2]	1.4[2]
ene		0.0056	1.8	Chrysene		0.059	3.4	p-Dimethylaminoazobenzene		0.13	NA
		0.061	3.4	o-Cresol		0.11	5.6	2,4-Dimethylphenol		0.036	14
nene		0.35	15	Cresol (m- and p- isomers)		0.77	5.6	Dimethyl phthalate		0.047	28
cumene		0.63	15	m-Cumenyl methylcarbamate		0.056[2]	1.4[2]	Dinoseb		0.056[2]	1.4[2]

If you have any questions please call 1 800 843 3504 for Customer Service
Chemical Waste Management Inc
Forms or 847 882 3600
Printed on recycled paper
recycled paper
ecology and environment

Reference 38

RECORD OF COMMUNICATION

CONTRACT/PROGRAM: 68-W6-0013	
TDD#: S06-99-07-007	**PAN#:** 092710SAXX
CONVERSATION WITH: Mark Gamborella	**DATE:** September 24, 1999
	TIME: 2 30 p m
TITLE:	
COMPANY: Louisiana Department of Wildlife and Fisheries	
ADDRESS: 1995 Shreveport Highway Pineville, LA 71360	[ ] **ORIGINATOR PLACED CALL** [x] **ORIGINATOR RECEIVED CALL**
PHONE: 318-487-5881	
SUBJECT: Fisheries in Hynson Bayou	

NOTES:

START Carson called Louisiana Department of Wildlife and Fisheries requested information regarding Hynson Bayou Mr Gamborella does not think the amount of fishing in Hynson Bayou is significant due to the fact that many people know that the bayou has a lot of agricultural runoff

ACTION:

[ ] **FILE:**	**CONTRACT REPRESENTATIVE:** Jon Rinehart
[ ] **TICKLER FILE:**	**TITLE:** Site Assessment Manager
[ ] **FOLLOW-UP BY:**	**ORIGINATOR:** Maggie Carson
[ ] **DISTRIBUTION:**	**TITLE:** Team Leader

Reference 39

RECORD OF COMMUNICATION

CONTRACT/PROGRAM: 68-W6-0013	
TDD#: S06-99-07-007	**PAN#:** 092710SAXX
CONVERSATION WITH: Jason Sanders	**DATE:** November 3, 1999
	TIME: 9 55 a m
TITLE: Project Manager, Environmental Affairs	
COMPANY: Louisiana-Pacific Corp	
ADDRESS: P O Box 3107 Conroe, TX 77305	[ ] **ORIGINATOR PLACED CALL** [x] **ORIGINATOR RECEIVED CALL**
PHONE: 409-788-9723	
SUBJECT: Questions regarding NPDES sample results	

NOTES: Louisiana-Pacific Jason Sanders says L-P continued to sample storm water discharge to retain permit although the facility was inactive and was only used for log storage.

The discharge is to the Hynson Bayou, southern boundary of the facility

Although zinc exceedances occurred in 4Q96, 1Q97, and 3Q97, the facility was inactive and Mr. Sanders could not explain why zinc exceedances occurred.

ACTION:

[ ] **FILE:**	**CONTRACT REPRESENTATIVE:** Jon Rinehart
[ ] **TICKLER FILE:**	**TITLE:** Site Assessment Manager
[ ] **FOLLOW-UP BY:**	**ORIGINATOR:** Maggie Carson
[ ] **DISTRIBUTION:**	**TITLE:** Team Leader

Attachment A
Access Agreement

CONSENT FOR ACCESS TO PROPERTY

Name of Owner: Louisiana Pacific Corporation

Site Name: Roy O. Martin

I hereby consent to officers, employees, and representatives authorized by the United States Environmental Protection Agency (EPA) entering and having continued access to my property for the following purposes:

1. Reviewing and copying documents related to the site;
2. The taking of such soil, water, and air samples as may be determined to be necessary.
3. The sampling of any solids or liquids stored or disposed of on property;
4. The drilling of holes and the installation of monitoring wells for subsurface investigation of subsurface contamination.

I realize that these actions are undertaken pursuant to EPA's response and enforcement responsibilities under the Comprehensive Environmental Response, Compensation, and Liability Act, as amended (CERCLA), 42 U.S.C. § 9601(e), as well as 40 CFR Part 300.400 Subpart E. Under those authorities, EPA can only remediate and restore contaminated property, and it legally cannot improve property beyond removing hazardous substances located on such property.

By entering into this agreement, the undersigned in no way admits to having generated the hazardous substances, pollutants, or contaminants in question, nor does the signing of this agreement constitute an admission that the undersigned in any way consented or acquiesced to the deposition of the hazardous substances, pollutants, or contaminants upon the property in question.

I am the property owner, or a responsible agent of the property owner, and I warrant that I have the authority to enter into this access agreement.

Place a check mark in the appropriate space. Please note that if no selection is made, EPA will assume that you do not wish to be provided with a portion of the sample.

(X) Please provide me with a portion of each sample taken at the property described above. I understand that there will be no charge for the sample portions provided by the EPA. I also understand I must furnish suitable containers, be responsible for the laboratory analytical analysis, and sign for transfer of custody from the EPA designated sampler.

( ) I do not wish to receive a portion of samples taken at the property described above.

This written permission is given by me voluntarily with knowledge of my right to refuse and without threats or promises of any kind. By signing this access agreement I am not waving any rights in law or in equity I may have against any person or party in connection with the response action EPA will perform.

8/26/99
Date

Elizabeth T. Smith Dir.
SIGNATURE, TITLE
Envir. Affairs

Attachment B
Photodocumentation

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 101 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1010 DIRECTION: w
Former receiving department building

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 102 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1012 DIRECTION: w
Former fabrication area in building 2

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 103 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1012 DIRECTION: w
Former fabrication area of building 2

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 104 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1013 DIRECTION: sw
North side of building 2

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 105 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1013 DIRECTION: sw
North side of building 2

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 106 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1015 DIRECTION: w
Oil change pit in mechanic shop

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 107 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1016 DIRECTION: ne
Oil storage tanks in mechanic shop

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 108 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1020 DIRECTION: n
Residences adjacent to site

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 109 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1030 DIRECTION: n
Former containment for 1000 gallon AST

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 110 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1030 DIRECTION: nw
Fence down on northeast part of site

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 112 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1035 DIRECTION: s
Recirculating pond on northern portion of site

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 113 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1035 DIRECTION: se
Recirculating pond on northern portion of site

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 114 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1045 DIRECTION: sw
Debarker

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 115 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1055 DIRECTION: e
Cooling house foundation

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 116 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1055 DIRECTION: e
Cooling house foundation

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 117 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1125 DIRECTION: w
Houses near site with low fencing. Foundation of former building in foreground.

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 118 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1129 DIRECTION: ne
Slag? pieces on driveway area east of building 40.

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 119 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1129 DIRECTION: s
Slag? pieces on driveway area east of building 40.

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 120 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1130 DIRECTION: n
Coal or slag piece close-up east of building 40.

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 121 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1135 DIRECTION: n
Dark soil around/ in slag driveway.

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 122 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1225 DIRECTION: s
Bayou Hynson south of the site. Note minnows in water.

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 123 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1225 DIRECTION: sw
Bayou Hynson south of the site

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 122 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1225 DIRECTION: s
Bayou Hynson south of the site. Note minnows in water.

SITE NAME: Roy O. Martin LA-Pacific TDD#: S06-9907-007
PHOTO#: 123 PHOTOGRAPHER/WITNESS: M. Carson/ A. Canning
DATE: 09/23/99 TIME: 1225 DIRECTION: sw
Bayou Hynson south of the site

Attachment C
Negatives
(E & E File Copy Only)

Attachment C

Negatives

and unused photos

Roy O. Martin (Louisiana-Pacific Corp.)

S06-99-07-007

PAN#: 092710SAXX

TECHNICAL DIRECTION DOCUMENT

S06-99-07-007

TDD

092710SAXX

PAN

Roy O.Martin (Louisiana-Pacific Corp.)

Site Name / none Site Activity

Alexandria, Rapides Parish, Louisiana

Site location

EPA

Contract 68-W6-0037 with

ecology and environment, inc.

Attachment D
Technical Direction Document

EPA

Technical Direction Document (TDD)

06-99-07-0007

START CONTRACT #: 68-W6-0013

Activity Type: IV.A.1 Preliminary Assessments **Task:** Preliminary Assessment **General Task Description:** Tasking of 10 sites for preliminary assessments **Estimated Completion Date:** 09/04/99	**Created On:** 07/19/99 **DPO/PO:** Henry Thompson **Task Monitor:** Jon Rinehart **Task Codes:** SA; QB
Site/Project Name: Preliminary Assessments in Louisiana **Street Address:** See below **City, State, Zip:** Louisiana,	**Estimated Cost:** $73,123.00 **Estimated Hrs:** 1,350 **Dedicated:** 1,350 **Non-Dedicated:** 0
Funds Source: CERCLA Site Assessment **DCN #(s):** SCR035 (AF2) CERCLA Site Assessment $73,123.00	**Deliverable:** Other, Preliminary Assessment Reports **Overtime:** Not Applicable **Reference:** No
TDD Expenditure Limit: $73,123.00 **Hours:** 1,350 **Dedicated Hours:** 1,350 **Non-Dedicated Hours:** 0	**Staffing:** Dedicated Staff **Priority:** Medium **Start Date:** 07/06/99

Comments: 1. Conduct preliminary assessments on a list of 10 Louisiana sites.

2. Contact TM to schedule meeting and attend to receive and discuss site list and workplan and work schedule.
3. Conduct Preliminary Assessments per SOW and EPA Guidance EPA /540/G-91/013 "Guidance for Performing Preliminary Assessments Under CERCLA" to document the presence of any hazardous substances at the site and evaluate all contaminant migration pathways. Prepare proposed schedule for field screening, with map which places identified sites into geographic areas based on proxmity to one another, for TM approval. These assessments will require an access letter. Sites should be scheduled to minimize driving time between sites.
4. Prepare field documentation for each site to include map with clustering of sites into groups, Field screening documentation , LDEQ Meeting/DocumentationResearch if necessary, Provide one copy of the final report containing information for each of the 10 sites.
5. The contractor shall conduct the field documentation based on an regular work schedule.

Standard Language: Coordinate with Task Monitor

A. TDD Created By: - Signed by Jon Rinehart/R6/USEPA/US on 07/06/99 01:51:24 PM, according to /USE

Signed On:

B. Reviewed and Approved By: - Signed by Cora Stanley/R6/USEPA/US on 07/19/99 02:14:27 PM, accordin

Contract Officer: 07/19/99

Cora Stanley **Signed On:**

Anderson
09 27 86 SAXX
80927 35