40-4501
10 DIVISIONS PER INCH SHORT SIDE
THREE 3½-INCH CYCLES LONG SIDE
L. L. RIDGWAY COMPANY, INC.
PRINTED IN U.S.A.

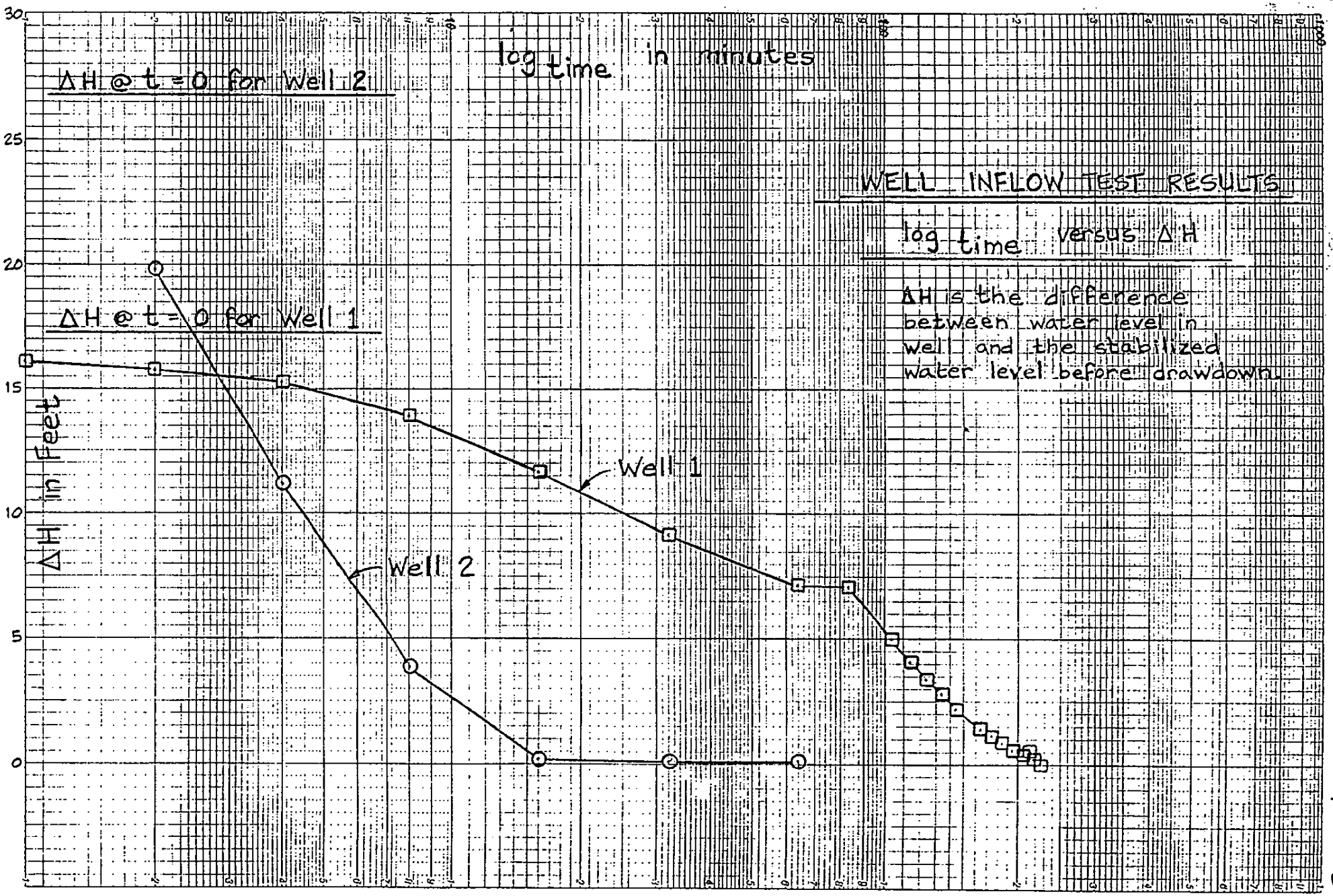

FIGURE 1

Subject MONITOR WELL CONFIGURATION

Sheet 2 Of 2

Made by KGA Date 31 JAN 85

File No. 84-184

Checked by C.W.H. Date 31 JAN 85

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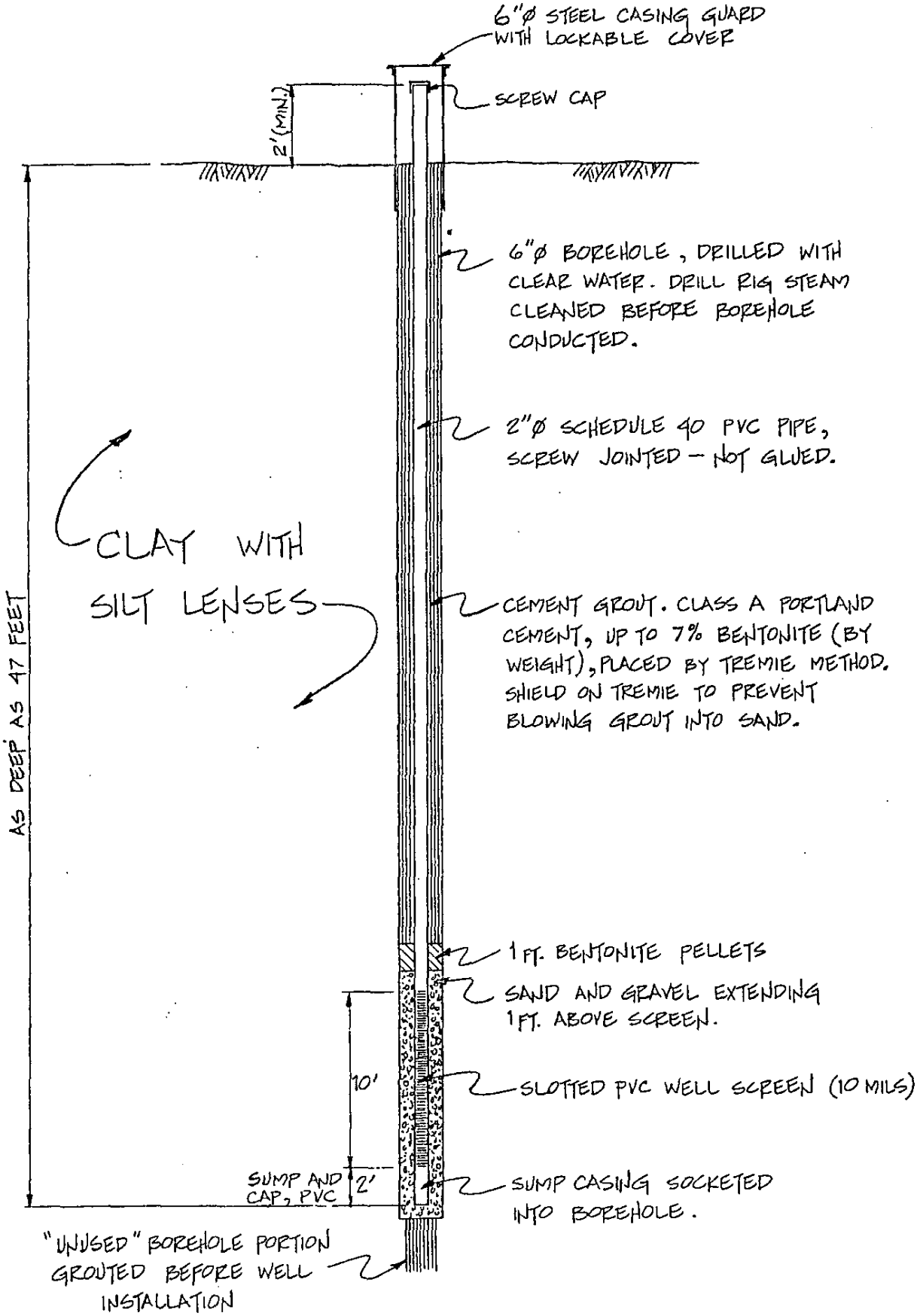
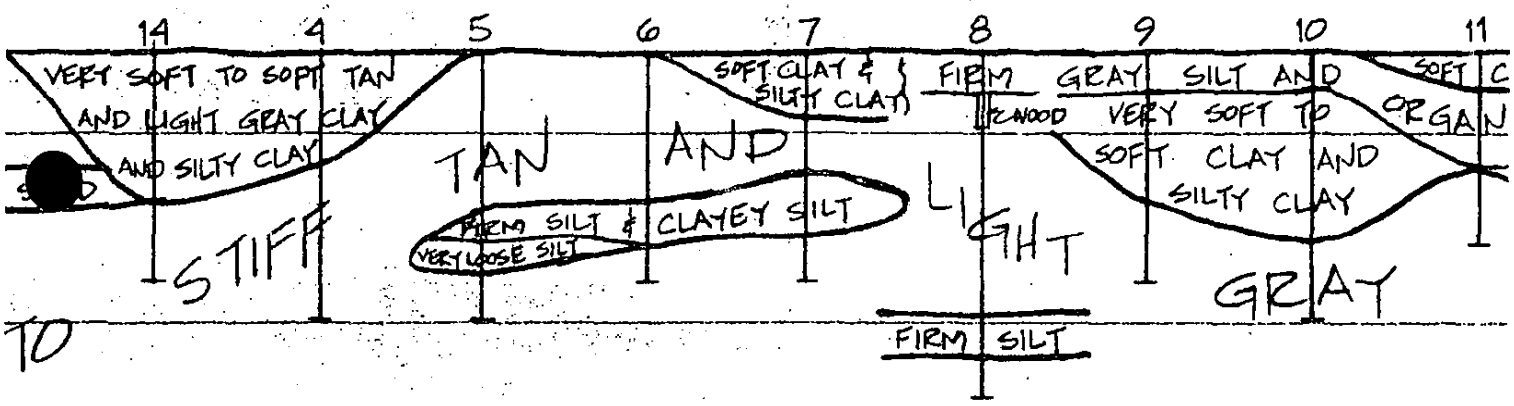




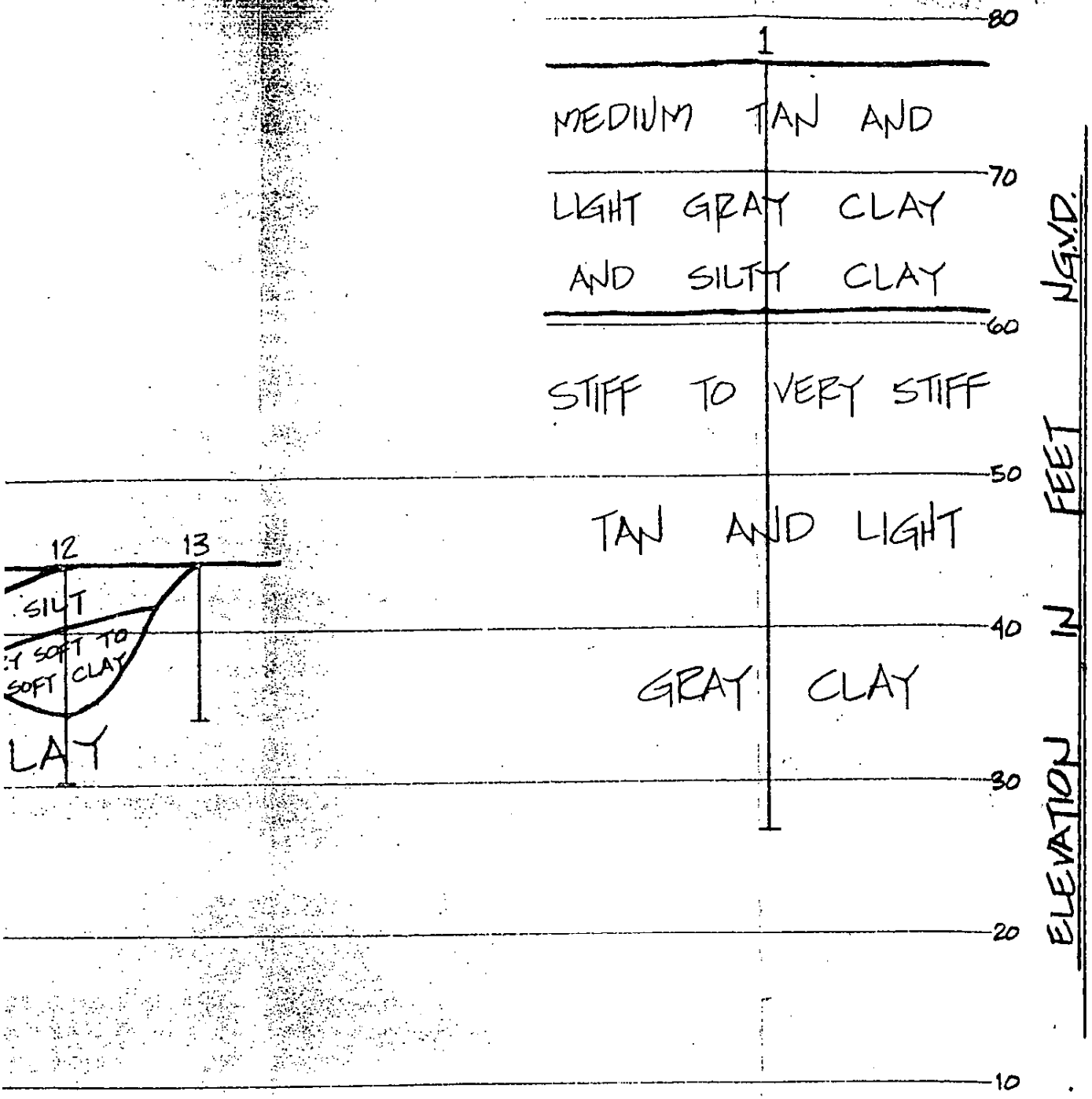
SOIL PROFI

NOTES:

1- SOIL STRATIFICATIONS SHOWN BETWEEN BORINGS ARE THEY MAY OR MAY NOT AGREE WITH THE ACTUAL SOIL

2- SOIL STRENGTH DETERMINATION IN ALL BORINGS VIA FIEI

3- SOIL CLASSIFICATIONS IN BORINGS 3 THROUGH 14 VIA FI



ECESSARY INTERPOLATIONS.
IDITIONS OUTSIDE OF THE BORINGS.

METHODS.

METHODS.

SCHUYLKILL METALS CORPORATION
BATON ROUGE, LOUISIANA

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.
GEOTECHNICAL ENGINEERING
BATON ROUGE, LOUISIANA

SCALE	DWN. RGA 31JAN85	JOB NO.
SHOWN	CKD. CWH 31JAN85	84-184

BORING PLAN AND SOIL PROFILE

SHEET NO. 1

Subject WELL DEVELOPMENT

Sheet 3 Of 3

Made by STANLEY Date 23JAN84

File No. 84-184

Checked by _____ Date _____

LOUIS J. CAPOZZOLI & ASSOCIATES, INC. Geotechnical Engineers

READING ON RETURNING WATER (CONT)

204 MIN 29' 3" FROM TOP OF TUBE

214 MIN 29' 4"

219 MIN 29 1"

224 MIN 28' 10"

Subject WELL DEVELOPMENT Sheet 2 Of 3

Made by JAMES Date 23 JAN 85

File No. 84-184 Checked by _____ Date _____

LOUIS J. CAPOZZOLI & ASSOCIATES, INC. Geotechnical Engineers

DEPTH of WATER BEFORE BLOWOUT of WELL 28' 10"

WELL WAS BLOWN OUT @ 1040 WITH A WATER LEVEL of 45' 6"

READING of RETURNING WATER:

0 MIN	45' 6" FROM TOP of TUBE
1 MIN	44' 11"
2 MIN	44' 7½"
4 MIN	44' 1¼"
8 MIN	42' 9¼"
16 MIN	40' 6¼"
32 MIN	38' Ø"
64 MIN	36' Ø"
84 MIN	35' 11½"
104 MIN	33' 1Ø"
114 MIN	32' 11"
124 MIN	32' 3"
134 MIN	31' 8"
144 MIN	31' ½"
164 MIN	30' 3½"
174 MIN	30' Ø"
184 MIN	29' 8"
194 MIN	29' 5"

DAILY FIELD REPORT NO. 2

Date: 23 JAN 85
Job Name and No.: 84-184
Inspector: B. STANLEY, R. ZAPATA.
Contractor:

Hours Worked — From: 0930 to 1800
No. Men on Site: 2
Temp. Range: 40's
Weather: WINDY, CLOUDY
Visitors: Ø

ARRIVED ON SITE AND STARTED DEVELOPING THE TOP SLOPE WELL @ 0930. THE WELL WAS BLOWN OUT AND CLEANED AT 1040, AT WHICH TIME WE STARTED TAKING READINGS ON THE RETURNING WATER LEVEL. READINGS ARE LISTED ON SHEETS 2 AND 3 OF THIS REPORT.
RETURN BACK TO OFFICE.

ON SITE / OFFICE - 6½ HRS
TRAVEL - 1 HR
TOTAL - 7½ HRS

B. STANLEY

Note any instructions given to contractor:

DAILY FIELD REPORT NO. 1

Date: 22 JAN 85
Job Name and No.: 84-184
Inspector: B. STANEY, R. ZAPATA
Contractor:

Hours Worked — From: 0930 to 1215
No. Men on Site: 2
Temp. Range: 30'S
Weather: CLEAR
Visitors: Ø

ARRIVED ON SITE THIS MORNING @ 0930. WAS UNABLE TO DRIVE UP TO EASTER WELL, DUE TO SOFT, WET SURFACE. DROVE BACK TO THE OFFICE TO PICK UP EXTRA WATER AND AIR HOSES TO REACH EACH WELL.
ARRIVED BACK ON SITE AT 1300 AND SET UP TO BLOW OUT THE DOWNSLOP WELL. DEPTH OF WATER BEFORE BLOWOUT WAS 3' 5¼". THIS WELL WAS BLOWN OUT AND CLEAN AT 1405, AT WHICH TIME READINGS WERE TAKEN ON THE WATER RETURNING INTO THE WELL.

READING ON RETURNING WATER LEVEL:

0 MIN	31' ½"	FROM TOP OF TUBE
2 MIN	23' 3"	"
4 MIN	14' 8"	"
8 MIN	7' 4"	"
16 MIN	3' 7½"	"
32 MIN	3' 4"	"
64 MIN	3' 4"	"

* AT 25 MIN WATER LEVEL @ 3' 5¼"

RETURNED BACK TO OFFICE AFTER 64 MIN READING

B. STANEY

ON SITE/OFFICE - 6½ HRS
TRAVEL - 2 HRS
TOTAL - 8½

Note any instructions given to contractor:

Enclosures: Daily Field Reports 1 and 2
Sheet 1, Boring Plan and Soil Profile
Sheet 2, Monitor Well Configuration
Figure 1, Well Inflow Test Results
Table 1, Laboratory Data
Logs of Borings 1 through 14

accomplished by pressurizing the casing interior with air through one lysimeter opening while allowing water drainage from the adjacent hole (connected to the 1/2 inch diameter tubing). Such process was repeated a minimum of 3 times or until clear return water was obtained. Following the final evacuation, the rate of water level rise is each well's casing (to the stabilized level) was measured. This constituted the water inflow test. Procedural details are in Daily Field Reports 1 and 2. Figure 1 depicts, for both wells, water rise versus logrithmic time.

Evaluation of inflow data indicates permeability coefficients (k) of 2.3×10^{-5} and 3.4×10^{-4} cm/sec for Wells 1 and 2, respectively. These values - based on equations by Hvorslev, 1949 - are much larger than is normally the case for clay because of the thin, probably interconnected, horizontal lenses of silt within the nearly impermeable Pleistocene clay mass.

PROBE BORINGS

Locations of 12 auger borings, conducted on 27 and 28 December 1984, are shown by sheet 1. These are designated 3 through 14 to extend the numbering system begun with the monitor wells. Such exploration's purpose was to field check the surface silt layer's thickness: an individual borehole was advanced until at least 4 feet of penetration into the underlying impermeable clay. Total footage of these borings was 154. Upon completion, all boreholes were grout sealed full depth to insure site impermeability restoration. The field logs are attached.

Classification samples, obtained for the full depth of each boring, were visually evaluated in the field. Findings were given to your onsite representative. No laboratory testing was accomplished. The resulting soil profile is on sheet 1.

Probe boring conduct required 10 hours of drill crew time, 2 drill crew trips to the site, 2 sacks of bentonite, and 6 sacks of Portland cement.

SUMMARY

Geotechnical services described by this report resulted in installation and permeability evaluation of 2 ground water quality monitor wells plus confirmation of near surface soil stratigraphy. Details are in the report main body and attendant enclosures.

STATE OF LOUISIANA
Charles William Hair III
REG. No. 15796
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

Very truly yours,

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

Charles W. Hair, III

CWH,III/srb

jointed PVC tube, extending to the screen bottom level inside the well casing, is affixed to one inlet. Externally, the well screen is surrounded by a tremie placed granular soil (sand and pea gravel) packing. An annulus grout seal, extending from the packing top to the ground surface, anchors a lockable steel security guard. Sheet 2 shows well construction particulars.

Installation. Well 1 installation took place on 7 and 8 December 1984. Well 2 was set during the period 21 through 26 December. A total of 6 drilling rig/crew hours were required. Site surface condition required use of a bullozer, provided by you, to station our drill rig onsite. Such difficult trafficability caused 3 hours of drill rig/crew standby.

Borehole advancement was by the rotary washbore method using equipment which had just been steam cleaned. Initial borehole diameter was 4 inches. This was later reamed to 6 inches to accommodate well placement.

During conduct of each boring, we obtained high quality undisturbed soil samples for use in laboratory analyses. The sampling technique involved hydraulically pushing a 30 inch long, 3 inch O.D., thinwall Shelby tube sampler into the ground a distance of 24 inches per sample. Applicable ASTM standards were adhered to during this process. Such sampling was on 5 foot centers for the 50 foot depth of boring 1 (Well 1) and the 37 foot depth of boring 2 (Well 2). The detailed borehole logs are attached.

Soil Profile. Upon recovery, all samples were classified in the field by our technician and then returned to our laboratory for testing. Detailed laboratory analyses, conducted on each undisturbed specimen to establish soil profile correspondence with your other onsite wells, involved 17 unit weight/moisture content determinations plus visual classification. Again, ASTM standards governed performance. Results are on table 1.

Topographic map study reveals the ground surface elevation at Well 1 approximates 78 feet, NGVD; that at Well 2, 45 feet, NGVD. The sheet 1 soil profile shows a 5 to 15 foot thick soft to medium strength silty clay surface covering overlies stiff to very stiff strength Pleistocene age clay with silt streaks. Surface cover is thinnest at Well 2 and contains appreciable silt (relatively pervious granular soil) sub layers and pockets there.

Well Evaluation. After installation, the ground water level stabilized in Well 1 at almost 27 feet below the surrounding ground surface. Such stabilized level in Well 2 was about 2 feet.

Once each well's annular grout seal had set, our technicians conducted a water inflow test in conjunction with well development. The latter procedure - performed to insure a clean, free flowing installation - involved purging drilling fluids, etc., by successively evacuating the well to the screen bottom and then surging (refilling) with potable water. Well excavation was

LOUIS J. CAPOZZOLI & ASSOCIATES, INC. Geotechnical Engineers

Dr. Louis J. Capozzoli, Jr., P.E.
Glynn P. Gautreau, P.E.
James M. Aronstein, Jr., P.E.
Charles W. Hair, III, P.E.

31 January 1985

Schuylkill Metals Corporation
P. O. Box 73916
Baton Rouge, Louisiana 70807

Attention: Mr. Glenn Hasse

Re: Geotechnical Services
Ground Water Quality Monitoring
Plant Facilities
Baton Rouge, Louisiana
Our File: 84-184

Gentlemen:

This report summarizes geotechnically related work performed onsite by us during the past 2 months. The original project scope is stated in our 8 November 1984 proposal. Scope augmentation was developed in subsequent meetings and telephone conversations with you.

PROJECT DESCRIPTION

Services by us at this existing plant fell into 2 categories:

- Installation, development, and flow (slug) testing of 2 ground water quality monitor wells.

- Conduct of 12 shallow probe borings along the route of a soon to be constructed clay permeability barrier (cutoff wall).

The attached sheet 1 depicts locations of the wells and probe borings. In both cases, our work extended engineering study/ground water quality master planning for you by others. The following paragraphs detail our efforts.

MONITOR WELL INSTALLATION

Construction. The 2 wells installed by us consist of 2 inch diameter, schedule 40, screw jointed PVC casing surmounting a like diameter, 10 foot long section of .010 inch slotted PVC well screen. Installed screen bottom depths are 45 and 35 feet in Wells 1 and 2 (our numbers), respectively. Each well is fitted with a PVC lysimeter (cap) having 2 inlets. A 1/2 inch diameter screw

10555 AIRLINE HIGHWAY BATON ROUGE LOUISIANA 70816 TELEPHONE (504) 293-2460

GEOTECHNICAL SERVICES
GROUND WATER QUALITY MONITORING
PLANT FACILITIES
BATON ROUGE, LOUISIANA

FOR:

SCHUYLKILL METALS CORPORATION

BATON ROUGE, LOUISIANA

JANUARY 1985

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.
Geotechnical Engineers

LOUIS J. CAPOZZOLI & ASSOCIATES
GEOTECHNICAL SERVICES
GROUNDWATER QUALITY MONITORING
JANUARY 1985

depending on the direction--the "400-ft" and "600-ft" sands apparently merge to form one sand unit (Figures 7 and 8), and (2) water level differences in the two sands are greatest in wells in the industrial pumping center where the aquifers are separate, and diminish in wells closer to the area where the two sands are believed to merge.

In the central portion of the study area the "400-ft" and "600-ft" sands are separated by a clay unit. Isopach and structure maps of the "400-ft" sand in this area and the "400-600 ft" aquifer complex outside this area are shown in Figures 7 and 8. The "600-ft" sand is mapped only where it is separate from the "400-ft" sand (Figures 9 and 10). In the industrial area where the two sands are separate, non-pumping water levels differ by 35 ft [Meyer and Turcan, 1955, p. 21], proving that the aquifers are two separate hydrologic units. Even at wells EB-172 and EB-827 (Figure 11) three miles north of the industrial center, water levels differ by 8 ft.

A detailed description of the sediments of the "400-ft" and "600-ft" aquifers is given by Meyer and Turcan [1955, pp. 21, 22, and 28] and by Morgan [1961, pp. 22, 27]. Generally the "600-ft" sand is coarser and more permeable than the "400-ft" sand but the two sands are similar in appearance.

Stratigraphic Relationships

It has long been assumed that the "400-600 ft" aquifer system crops out and is recharged at some distance north of the industrial area [Meyer and Turcan, 1955, p. 21; Morgan and Winner, 1962, p. B 120]. Field investigations by former Louisiana State University graduate students have provided new information concerning the relationship between the "400-600 ft" aquifer system in Baton Rouge and the sand and gravels of the Citronelle formation north of East Baton Rouge Parish. Parsons [1967] used existing well information and outcrop mapping, supplemented with auger drilling, to map the Citronelle formation from Wilkinson and Amite Counties in Mississippi southward into the subsurface north of Zachary, Louisiana. Correlation of subsurface information indicates that the Citronelle continues south from its outcrop area and is continuous with the "400-600 ft" aquifer system (Figure 3). Striking similarities in the heavy mineral composition of samples of both the Citronelle and the "400-600 ft" aquifer system indicate that they are one and the same (personal communication, 1968, Norman Rosen).

Northwest and west of the industrial area the relationship between the Citronelle and the "400-600 ft" aquifer system is not so clear. To the northwest (T5S, R1W) a channel-like sand and gravel unit, 300 ft thick, occupies the "400-600 ft" aquifer interval (Figure 7). The channel-like character indicates this unit was deposited as a Pleistocene river channel that probably developed on a Citronelle surface. Based on electric logs, the upper 80 ft of the sand unit (between approximately -220 ft and -300 ft MSL in EB-655, Figure 3) tentatively correlates with the "University Sand" to the south. This sand and gravel is probably younger than the "400-600 ft" aquifer system and is younger than the Citronelle. The "400-ft" and "600-ft" sands, although separated to the southeast in the industrial area, are connected along the eastern boundary of the sand and gravel channel. This connection enables recharge from the "alluvial aquifer system" into the "400-600 ft" aquifer system in the industrial area.

The "400-600 ft" aquifer system is present throughout most of the study area. However as indicated in Figures 7-10, irregular areas were mapped where the sand "pinches out" and the total aquifer interval is occupied by clay and silt. Important "pinch-outs" occur north of and southwest of the industrial area in both the "400-ft" and the "600-ft" sands; these are potential barriers to any recharge from the area of the Citronelle outcrop to the north or from the merger of the "400-600 ft" aquifer complex with the "University Sand" as previously mentioned.

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IV. CONCLUSIONS

The conclusions presented here are based on geologic and hydrologic evaluation of test drilling, well logs, and numerous field measurements of water level. These conclusions should prove of value in the long-range evaluation of the ground-water supply of Baton Rouge. The conclusions are grouped in two main categories: hydrologic discontinuities which govern the flow of ground water within the aquifer systems, and the recharge components which replenish the ground-water system when water is withdrawn.

HYDROLOGIC DISCONTINUITIES

Important hydrologic discontinuities occur within the "400-600 ft" aquifer system, one of the principal aquifer systems in the area and the subject of the largest portion of this study.

The most important and most pervasive discontinuity is the barrier created by the Baton Rouge Fault. As indicated by this study the Baton Rouge Fault is a barrier in the "400-ft" and "600-ft" sands as well as the "2000-ft" as demonstrated by Meyer and Rollo [1965, p. 6]. Two lines of evidence reveal the efficacy of the Baton Rouge Fault as a hydrologic barrier: (1) water levels in wells screened at the same elevation on either side of the fault are 50 to 60 ft lower in wells north of the fault than in wells immediately south of the fault, and (2) water levels in wells in the "400-600 ft" sands north of the fault rise and fall as a result of cyclical industrial pumping, whereas water levels south of the fault, in wells screened at the same depth, do not show any effects of industrial offtake. The primary influence causing water level changes south of the fault is the change in river stage.

As a result of the hydrologic discontinuity created by the Baton Rouge Fault, salt water south of the fault is not continuous with the salt water north of the fault. Removal of the salt water north of the fault will not cause replenishment by salt water from south of the fault.

Hydrologic discontinuities next in importance are due to "pinch-outs" of the "400-600 ft" aquifer system. Important "pinch-outs" occur in two areas of the "400-ft" sand. "Pinch-outs" north of the industrial area block potential recharge from the Citronelle outcrop area and a three-mile long "pinch-out" immediately southwest of the industrial pumping center blocks recharge to the pumping center from the connection of the "alluvial aquifer system" and the "400-600 ft" aquifer system.

RECHARGE

The "alluvial aquifer" and the "University Sand" are recharged by the Mississippi River. The "400-600 ft" aquifer system is indirectly connected with the Mississippi River and receives recharge where the "alluvial aquifer system" and the "400-600 ft" aquifer merge. Evidence of the connection of the "400-600 ft" aquifer system and the river is provided in hydrographs of wells south of the Baton Rouge Fault. North of the fault changes in the offtake of industrial well fields obscure the effect of river recharge to the "400-600 ft" aquifer system except during months of minimum and constant pumping.

Recharge from the Citronelle formation north of Baton Rouge to the "400-600 ft" aquifer system in the industrial area is not definitely established. Water levels were not traced to a surface outcrop of sand. However, the "400-600 ft" system was determined to be a continuous hydrologic system north from the pumping center at least as far as the Alsen Fault.

The "400-600 ft" aquifer system is probably continuous east of Baton Rouge to Denham Springs. However, recharge is not expected from the east because the aquifers do not come to the surface to the east.

Recharge from the south is prevented by the Baton Rouge Fault.

isopach map (Figure 9) shows that there is a natural constriction through which the salt water must pass en route to the industrial area. Here the aquifer ranges in thickness from 0 to 85 ft and is less than 1 mile wide. It acts as a control to limit the amount of salt water entering the area from the west.

The hydrologic discontinuity created by the Baton Rouge Fault separates the salt water north of the fault in the "600-ft" sand from the water, fresh or salty, south of the fault. Thus eventual removal of salt water north of the fault by industrial pumping or by a system of scavenger wells pumping salt water to waste will not cause replenishment of salt water from the south.

Chemical analyses, made by U.S. Geological Survey chemists, of water from observation wells screened in the "400-ft" and "600-ft" sands and drilled by the LWRRI are given in Table I.

TABLE I.

CHEMICAL ANALYSES OF WATER FROM VARIOUS AQUIFERS*

	University Sand		400 ft-Sand			600-ft Sand
	(1)	(2)	(3)	(4)	(5)	(6)
Well No.	EB 819	EB 820	EB 818	EB 823	EB 825	EB 824
Date of Sample	5-18-68	5-18-68	5-18-68	5-18-68	5-18-68	5-18-68
SiO_2**	36	37	30	27	40	37
Fe	0.1	0.1	1.2	0.2	0	0.4
Ca	30	32	160	4.0	3.9	3.0
Mg	7.6	8.8	50	1.7	0.5	0.9
Na	84	76	1350	120	60	65
K	1.0	0.9	3.0	0.6	0.8	1.0
HCO_3	320	310	192	204	162	172
CO_3	0	0	0	0	0	0
SO_4	0.2	8.2	11	0.4	7.2	10
Cl	14	6.2	2380	81	3.3	4.2
F	0.3	0.3	0.3	0.8	0.2	0.3
NO_3	0.0	0.1	0.1	0.1	0.1	0.1
$CaCO_3$	106	116	605	17	12	11
pH	8.1	8.0	7.6	8.0	7.4	7.9

*Water analyses by U.S. Geological Survey
**Constituents in parts per million, except pH.

(1) Sec. 67, T7S, R1W, Screen 316 to 322 ft below land surface.
(2) Sec. 54, T7S, R1W, Screen 253 to 259 ft below land surface.
(3) Sec. 67, T7S, R1W, Screen 609 to 615 ft below land surface.
(4) Sec. 94, T7S, R1E, Screen 574 to 582 ft below land surface.
(5) Sec. 96, T7S, R1E, Screen 469 to 475 ft below land surface.
(6) Sec. 96, T7S, R1E, Screen 575 to 581 ft below land surface.

The "400-600 ft" aquifer system is the source of approximately 22% of the total annual ground-water pumpage in Baton Rouge based on figures for 1965, [Bieber and Forbes, 1966, p. 7]. Offtake is cyclical [Morgan, 1961, p. 26]. The pumping rate is greatest from May through September when river water is too warm to be used by some industries for cooling purposes. During the cooler part of the year, from October to April, river water use increases and ground-water offtake decreases. The cyclical nature of industrial pumping is mirrored in hydrographs of wells screened in the "400-600 ft" aquifer system. Ground-water levels drop steadily from an annual high in April or May to a minimum usually in October.

When the present investigation was begun little was known about the hydrologic boundaries and the hydrologic continuity of the "400-600 ft" aquifer complex. The aquifer complex was assumed to be replenished by rainfall and infiltration in the Citronelle outcrop area [Morgan and Winner, 1962, p. B 120]. Local faults described by Durham and Peeples [1956] and by Parsons [1967] were possible barriers to ground-water flow but their hydrologic effects were not known.

The four normal faults in the study area are diagrammatically shown in Figure 3. The greatest vertical displacement (230 to 280 ft at the base of the "400-ft" and "600-ft" sands) is created by the Baton Rouge Fault. Here the "400-ft" sand in the down-thrown block is juxtaposed against the "600-ft" sand in the up-thrown block.

To determine the continuity or the lack of continuity in the "400-600 ft" aquifer system in the region of the Baton Rouge Fault the LWRRI drilled wells at three sites south and one site north of the fault in the summer of 1967. Wells screened in the "400-ft" sand south of the fault are EB-818, EB-821, EB-822, and EB-823. North of the fault, at the Catholic Life Center near Acadian Thruway, well EB-824 was screened in the "600-ft" sand and EB-825 was screened in the "400-ft" sand. Water levels of these wells and several existing observation wells were periodically recorded. Representative hydrographs of wells north and south of the fault are shown in Figure 12. Location and depths of completion of each well are shown in Figure 13.

South of the fault the hydrographs of wells EB-789 and EB-823 revealed:

(1) Water levels of the "400-ft" sand respond to changes in the stage of the Mississippi River. Wells closest to the river show the greatest response. For example, from December 5, 1967, to January 5, 1968, the river rose 17.5 ft. The accompanying response in water levels in observation wells was as follows: EB-821 rose about 13 ft; EB-818 rose about 15 ft; EB-823 rose 9 ft; and EB-815 rose 8 ft. Like the "alluvial aquifer," the "University Sand" and the "400-ft" sand are hydraulically connected with the Mississippi River.

(2) The effect of the annual industrial pumping cycle is not noticeable in the hydrographs south of the fault.

(3) Water levels of the "400-ft" sand south of the fault never fell below mean sea level during the period of record (September 1967 to December 1968).

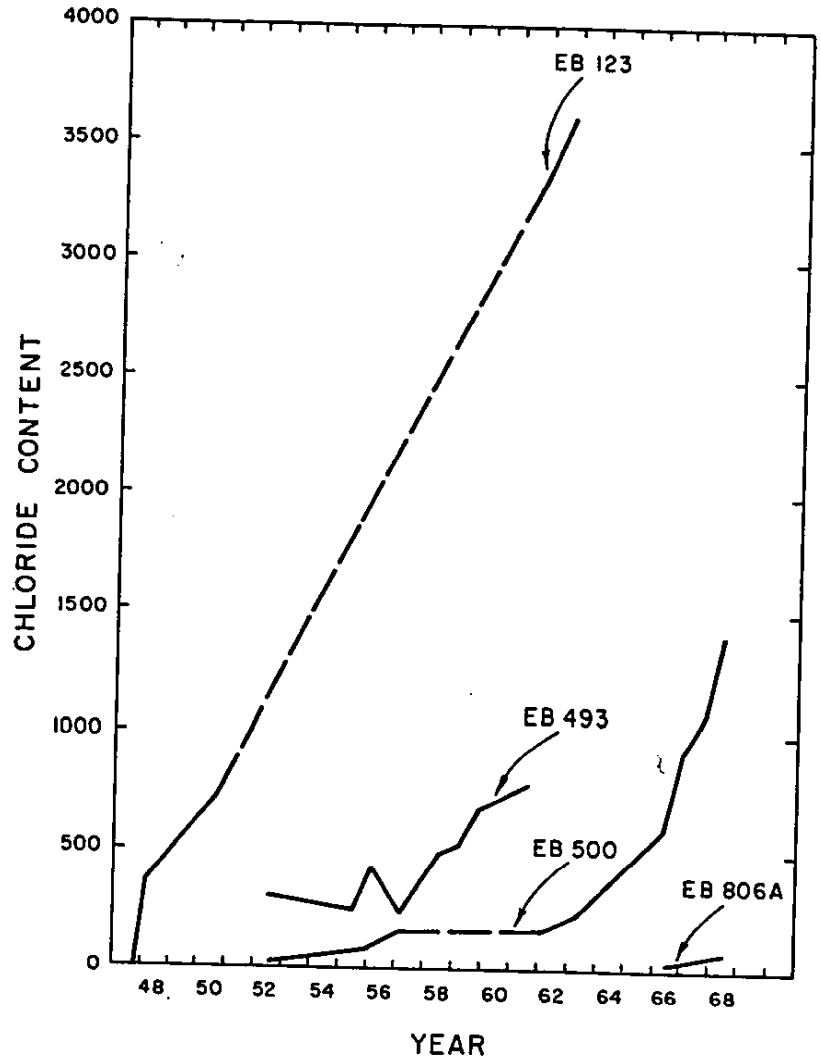
Hydrographs of wells screened in the "600-ft" sand (corresponding in depth to the "400-ft" sand south of the fault) north of the fault (EB-434, EB-123, and EB-824) show that:

(1) Pumping in the industrial center north of the fault causes the water-level fluctuations of wells in the "400-ft" and "600-ft" sands immediately north of the fault.

(2) Effects of river stage changes are apparent in hydrographs which include months of reduced industrial offtake (notice the drop in water levels in wells EB-824 and EB-434 in March to April, 1968, corresponding to an 18-ft drop in river stage).

(3) Water level in the "400-ft" sand north of the fault is 30 ft above the water level of the "600-ft" sand north of the fault. During the period of measurement the maximum elevation of the "600-ft" sand water level in observation well EB-824 was -31 ft MSL, nearly 50 ft below the water level in sands at the same depth south of the fault.

In summary, water levels in the "600-ft" sand immediately north of the fault are as much as 50 to 60 ft lower than water levels in wells screened at the same depths south of the fault (the "400-ft" sand). Therefore, the cone of depression created by industrial pumping does not extend south of the fault in the "400-600 ft" aquifer system. Thus, the Baton Rouge fault is an impermeable barrier. Water south of the fault is not flowing northward across the fault into the cone of depression.



INCREASE IN CHLORIDE CONTENT
"600 FT." SAND

FIG. 14

The "400-600 ft" aquifer system is continuous south of the industrial area only to the Baton Rouge fault. Both aquifers are continuous beyond the study area to the west. No hydrologic barriers (faults) are known west of the industrial area. The "400-600 ft" aquifer system has been mapped as a continuous sand unit east from the industrial area to the Amite River. The aquifer does not rise in elevation and probably is not recharged by surface water east of the pumping center. It is assumed that the hydrologic continuity of the "400-600 ft" aquifers is not interrupted by faulting east of Baton Rouge because a deeper aquifer (the "2000-ft" sand) is continuous beyond the study area to the east [Dial, 1968, p. 5].

The "400-ft" and "600-ft" sands rise in elevation from -350 ft MSL and -600 ft MSL respectively in the industrial area to less than -100 ft MSL and -225 ft MSL respectively in the vicinity of the Alsen and Zachary faults (Figures 8 and 10). Investigation of the continuity of the "400-600 ft" aquifer complex between the Citronelle formation and the industrial pumping center began with the study of the Denham Springs Fault. Hydrologic continuity across the fault could be assumed if observation wells in the "400-ft" and "600-ft" sands north of the Denham Springs Fault are responding to cyclical industrial offtake. U.S. Geological Survey observation wells EB-172 ("400 ft" sand; T5S, R1W) north of the fault and EB-78 ("400 ft" sand; T6S, R1W) in the industrial area existed at the beginning of the study. Records of water levels of these wells were supplied by the U.S. Geological Survey. In 1967 the LWRRI drilled two additional wells: EB-826 ("400-ft" sand; T6S, R1E) south of the fault and three miles east of the pumping center, and EB-827 ("600-ft" sand; T5S, R1W) three miles north of the fault. The annual cycle of industrial pumping, most accurately represented in the hydrograph of well EB-78, affects the hydrographs of wells EB-826, EB-827, EB-172, and AH-167 (Figure 11). This is conclusive evidence that (1) the Denham Springs Fault is not a hydrologic barrier to the "400-ft" or the "600-ft" sands, and (2) the "400-600 ft" aquifer system is hydraulically continuous north at least to AH-167.

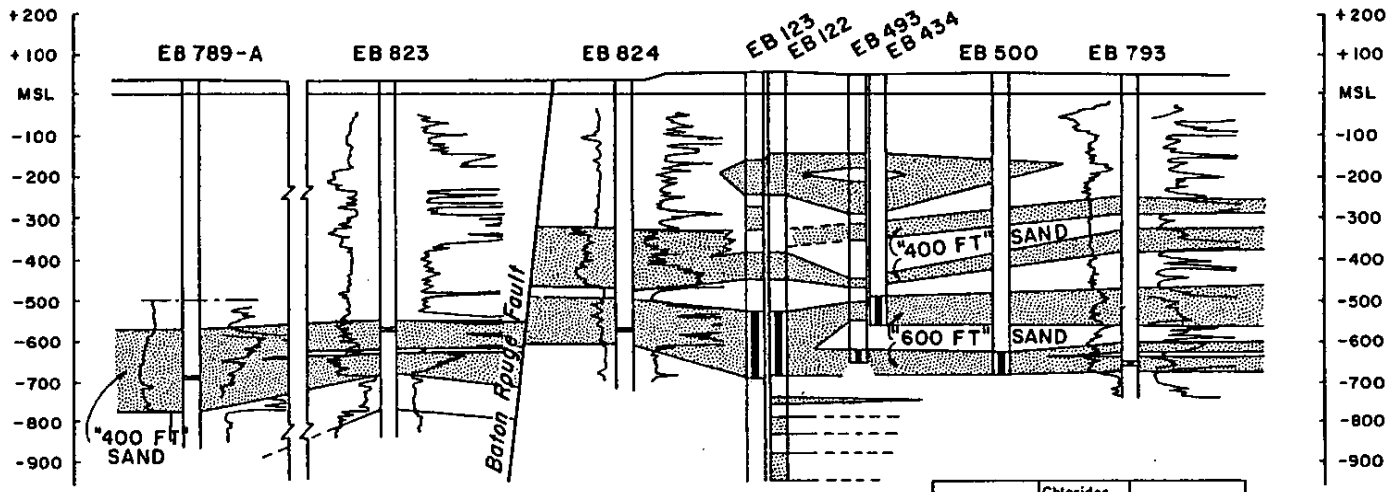
Hydrographs of two additional observation wells (EB-386 and Harrel's well) north of AH-167 also are shown in Figure 11. Both show a decline from July to November and a subsequent rise to February, 1969. However, because these wells are far north of the industrial pumping center and water level fluctuations shown in hydrographs are greatly dampened, their response to industrial offtake is not clearly and unambiguously shown. If, however, their hydrographs reflect industrial pumping, the continuity of the "400-600 ft" aquifer system can be extended beyond the Alsen and Zachary Faults.

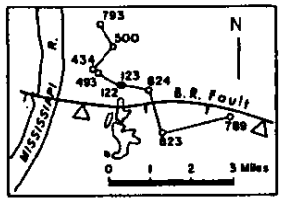
Water Quality

In most of the area north of the Baton Rouge Fault, water of the "400-600 ft" aquifer system is generally fresh, soft, and of the sodium bicarbonate type [Morgan, 1961, pp. 24, 27].

The average temperature of water from the "400-ft" and "600-ft" sands in the industrial area is 71° and 74° respectively [Meyer and Turcan, 1955, pp. 27 and 32]. In much of the area south of the Baton Rouge Fault brackish water and salt water occur in the "400-600 ft" complex. Immediately north of the Baton Rouge Fault, just north of Louisiana State University, salt water is present in the base of the "600-ft" sand [Morgan and Winner, 1964, p. 12]. The salt water was first discovered by the U.S. Geological Survey in 1947 when their water analyses showed chloride increases in well EB-123 [Meyer and Turcan, 1955, p. 71]. The subsequent history of chloride increases in wells farther north and closer to the industrial pumping center has been published and is illustrated in Figure 14. A north-south cross section showing stratigraphy, screen settings, and chloride concentrations in wells producing salt water is shown in Figure 13.

Presently (1969), the northern limit of salt water lies south of the industrial center between wells EB-806 A and EB-793. The eastern limit lies between wells EB-123 and EB-824 (Figure 13). Electrical logs in West Baton Rouge Parish (WB-36 and WB-100) show salt water to be present in the "600-ft" sand west of the river and north of the Baton Rouge Fault. The areal extent of this salt water is not known. The salt water is invading the Baton Rouge area from the west. The



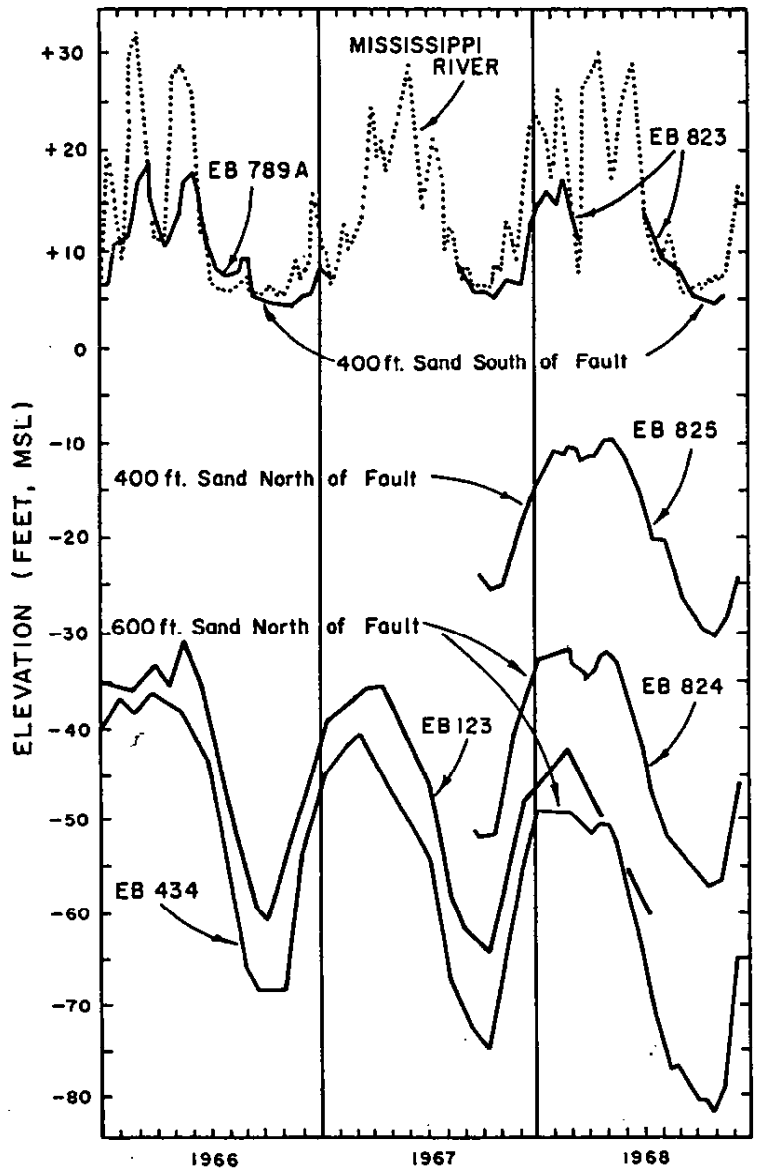


LOCATION OF CHLORIDES IN THE "600 ft" SAND

▯ Screened interval

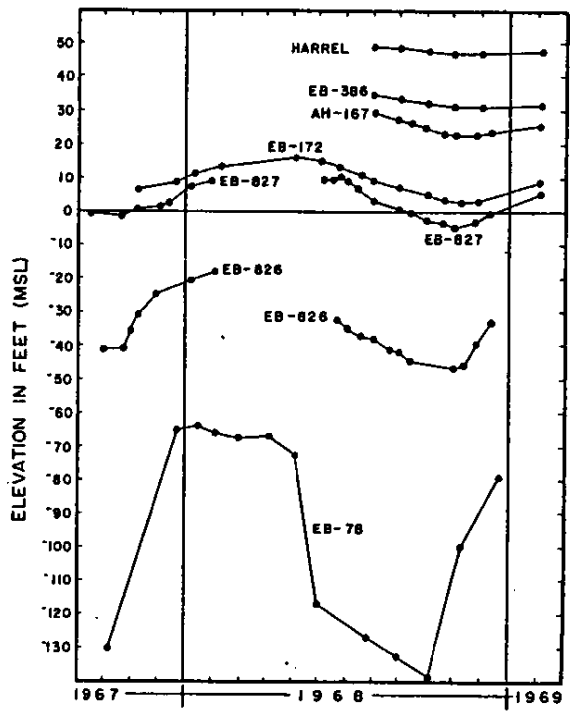
Well No.	Chlorides (ppm)	Sample date
EB 123	3680	5-9-62
EB 434	47	10-22-68
EB 493	790	8-8-61
EB 500	4710	10-28-68
EB 789-A	278	10-16-68
EB 793	2.3	5-15-68
EB 823	81	5-18-68
EB 824	4.2	5-18-68

FIG. 13

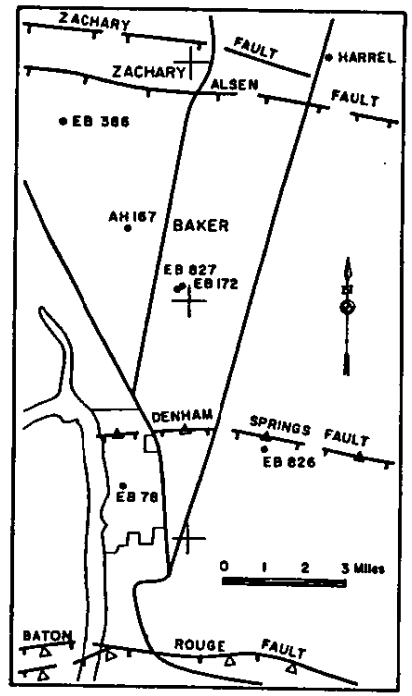


TYPICAL HYDROGRAPHS
NORTH AND SOUTH OF THE BATON ROUGE FAULT

FIG. 12



HYDROGRAPHS



LOCATION OF OBSERVATION WELLS

FAULTS

Hydrologic effect not known.

Not a barrier to flow.

Barrier to flow.

WELL	DEPTH OF SCREEN
Harrel	135'
EB 386	262-267'
AH 167	155-157'
EB 827	364-370'
EB 172	219-240'
EB 826	344-350'
EB 78	332-423'

HYDROGRAPHS AND LOCATION OF OBSERVATION WELLS
NORTH BATON ROUGE

FIG. 11

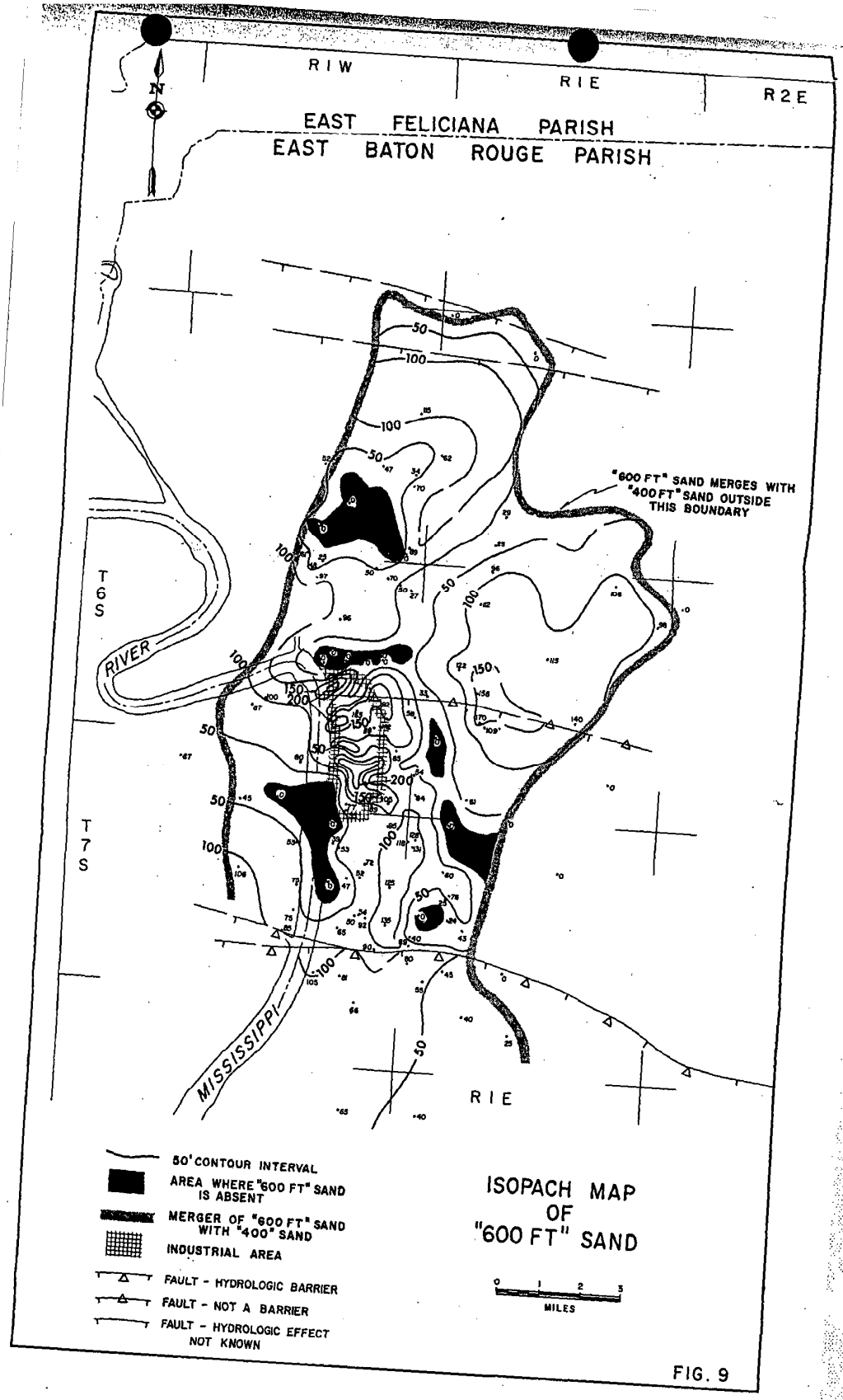

R1W
R1E
R2E
EAST FELICIANA PARISH
EAST BATON ROUGE PARISH
"600 FT" SAND MERGES WITH "400 FT" SAND OUTSIDE THIS BOUNDARY
T 6 S
T 7 S
RIVER
MISSISSIPPI
R1E
50' CONTOUR INTERVAL
AREA WHERE "600 FT" SAND IS ABSENT
MERGER OF "600 FT" SAND WITH "400" SAND
INDUSTRIAL AREA
FAULT - HYDROLOGIC BARRIER
FAULT - NOT A BARRIER
FAULT - HYDROLOGIC EFFECT NOT KNOWN
ISOPACH MAP OF "600 FT" SAND
0 1 2 3
MILES

FIG. 9

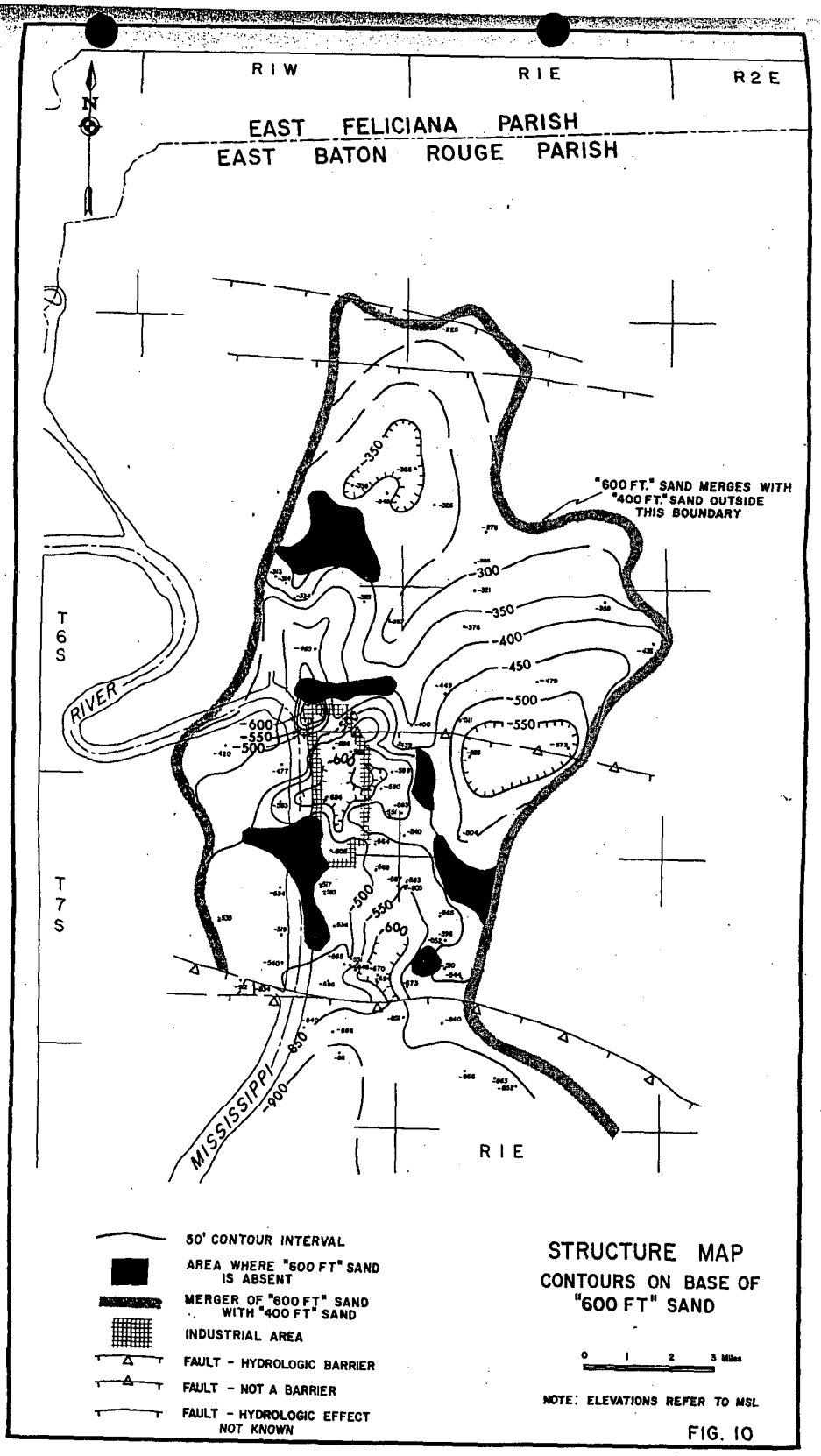

R1W
R1E
R2E
N
EAST FELICIANA PARISH
EAST BATON ROUGE PARISH
"600 FT." SAND MERGES WITH "400 FT." SAND OUTSIDE THIS BOUNDARY
T 6 S
T 7 S
RIVER
MISSISSIPPI
-350
-300
-350
-400
-450
-500
-550
-600
-550
-500
-600
-500
-550
-600
-850
-900
R1E
50' CONTOUR INTERVAL
AREA WHERE "600 FT" SAND IS ABSENT
MERGER OF "600 FT" SAND WITH "400 FT" SAND
INDUSTRIAL AREA
FAULT - HYDROLOGIC BARRIER
FAULT - NOT A BARRIER
FAULT - HYDROLOGIC EFFECT NOT KNOWN
STRUCTURE MAP
CONTOURS ON BASE OF "600 FT" SAND
0 1 2 3 Miles
NOTE: ELEVATIONS REFER TO MSL

FIG. 10

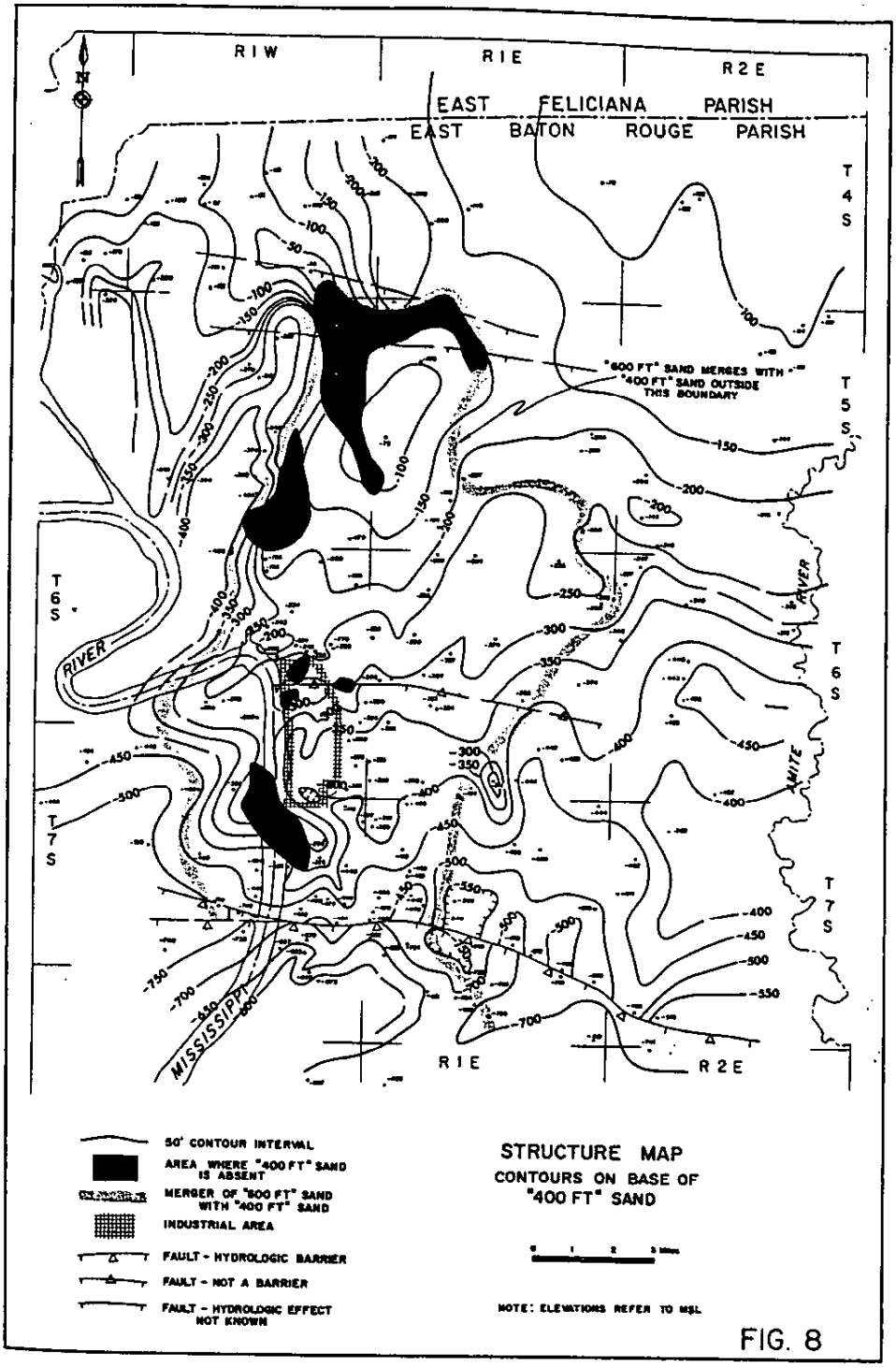
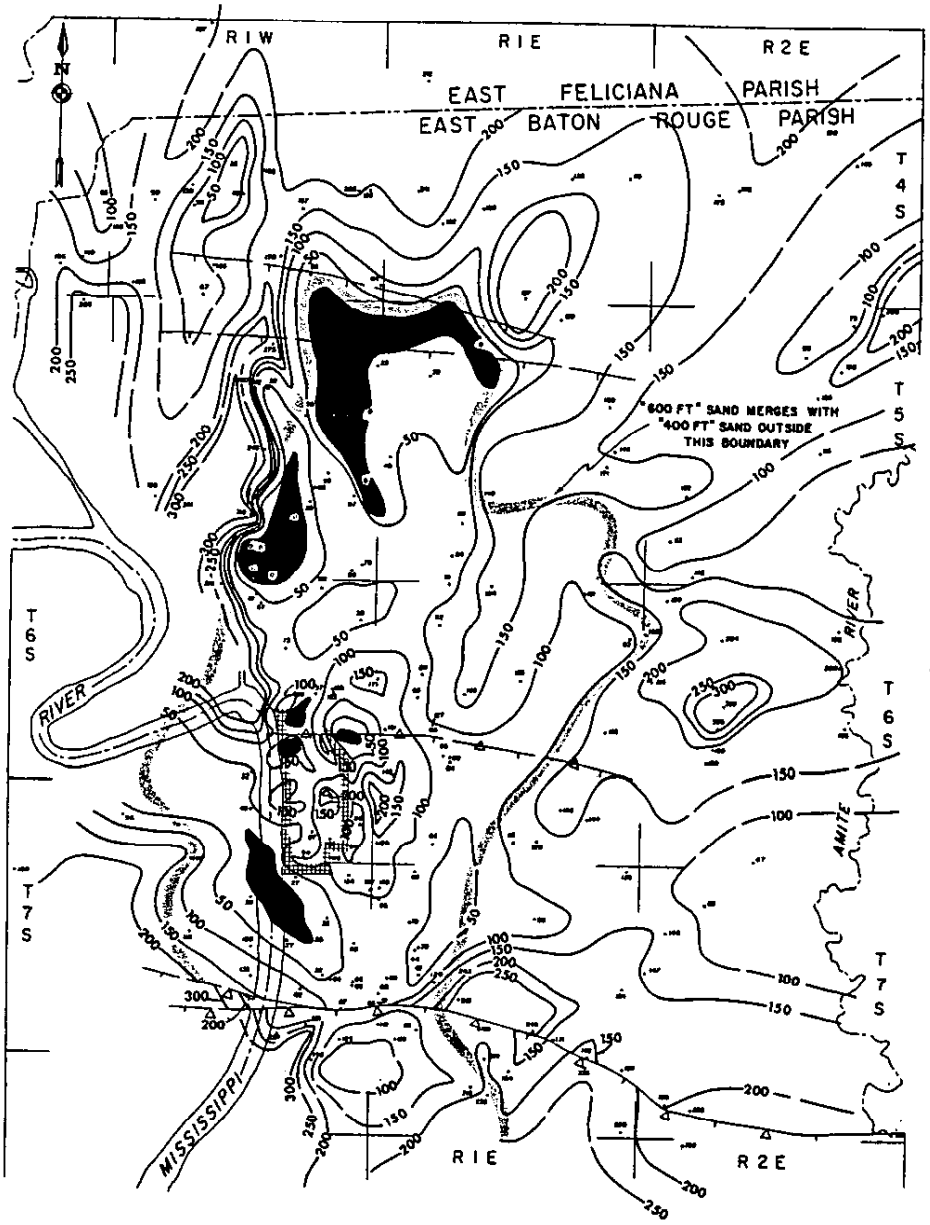

R1W
R1E
R2E
EAST FELICIANA PARISH
EAST BATON ROUGE PARISH
T 4 S
T 5 S
T 6 S
T 7 S
"600 FT" SAND MERGES WITH "400 FT" SAND OUTSIDE THIS BOUNDARY
RIVER
WHITE RIVER
MISSISSIPPI
50' CONTOUR INTERVAL
AREA WHERE "400 FT" SAND IS ABSENT
MERGER OF "600 FT" SAND WITH "400 FT" SAND
INDUSTRIAL AREA
FAULT - HYDROLOGIC BARRIER
FAULT - NOT A BARRIER
FAULT - HYDROLOGIC EFFECT NOT KNOWN
STRUCTURE MAP
CONTOURS ON BASE OF "400 FT" SAND
NOTE: ELEVATIONS REFER TO MSL

FIG. 8



ISOPACH MAP OF "400 FT" SAND AND "400-600 FT" AQUIFER SYSTEM

FIG. 7

the water is hard (200 ppm $CaCO_3$), of sodium bicarbonate type, and contains "excessive amounts of iron in solution" [Meyer and Turcan, 1955, p. 17]. In the study area chloride content is seldom above 20 ppm and encroachment of salt water from south of the area is not probable [Morgan and Winner, 1964, p. 9]. Of all aquifers in the study area temperature variations are greatest in the "alluvial aquifer". Meyer and Turcan [1955, p. 19] recorded an annual temperature range of 50°F to 73°F for water from a well in the alluvium in the industrial area.

THE "UNIVERSITY SAND"

The "University Sand" was first identified as a separate aquifer by analysis of water level data obtained from observation wells installed by the Louisiana Water Resources Research Institute on the Louisiana State University campus in 1967. Specifically, the "University Sand" is the sand and gravel unit occurring between the depths of 232 ft and 390 ft in well EB-820 (Figure 5). The "University Sand" is the deeper of the two aquifers of the "alluvial aquifer system." Maps of the elevation of the base and variation in thickness of the "University Sand" are given in Figures 4 and 5. The thickest portion of the aquifer apparently lies beneath the present Mississippi River channel. The configuration of the base of the sand and the configuration of the isopach map suggest that the "University Sand" is a Pleistocene river channel deposit.

The "University Sand" is continuous south and west beyond the study area. Tentative correlations indicate the aquifer extends north and may constitute the upper 80 ft of the "400-600 ft" aquifer in well EB-655 (Figure 3). To the east the aquifer terminates along a northwest to southeast line which passes through the southwestern corner of the industrial area and crosses the Baton Rouge fault 6 miles east of the Mississippi River. The fault displaces the base of the sand 50 to 100 ft (Figure 3).

West of the Mississippi River, the "University Sand" merges with both the "alluvial aquifer" above and the "400-600 ft" aquifer system below (Figure 4). These zones of merger create a hydrologic connection between the Mississippi River, the "alluvial aquifer system" and the "400-600 ft" aquifer system.

Hydrology

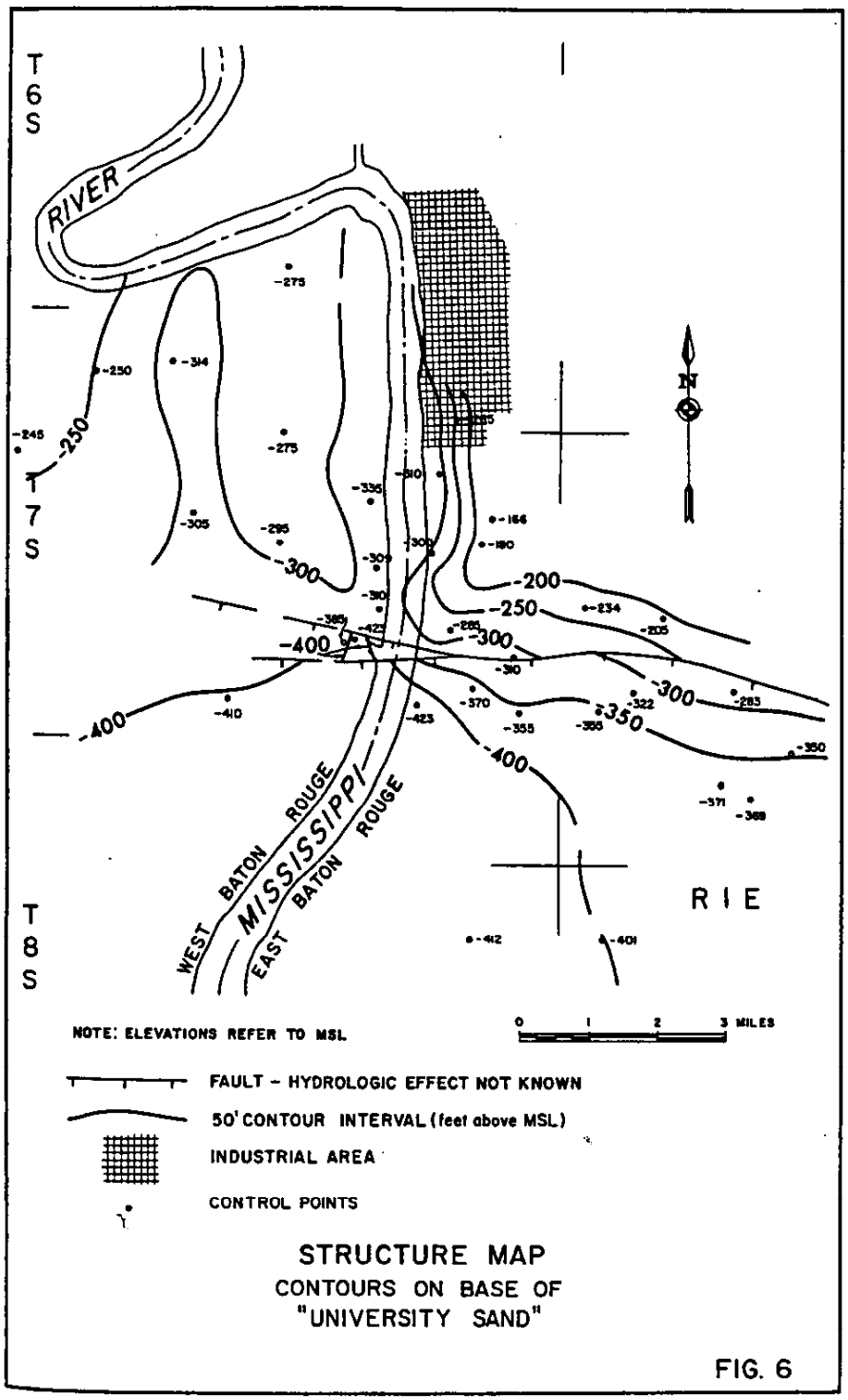
The "University Sand" and the "alluvial aquifer," because they are joined over a large area, behave as one hydrologic unit. Wells screened in the "University Sand" north and south of the Baton Rouge fault respond to changes in Mississippi River stages. The hydrograph of well EB-127 (Figure 2) is compared with the Mississippi River hydrograph by Morgan [1961, p. 14]. Morgan erroneously correlated the screened interval of EB-127 (-185 ft to -280 ft MSL) as being in the "400-ft" sand. He used this as evidence of the connection of the "400-ft" sand with the river. Actually, EB-127 is screened in the "University Sand" and demonstrates the hydrologic connection of the Mississippi river, the "alluvial aquifer" and the "University Sand".

Hydrologic Characteristics and Water Quality

Hydrologic characteristics of the "University Sand" have not been determined. Chemical analyses made by the U.S. Geological Survey from wells drilled by the Louisiana Water Resources Research Institute and screened in the "University Sand" appear in Table I.

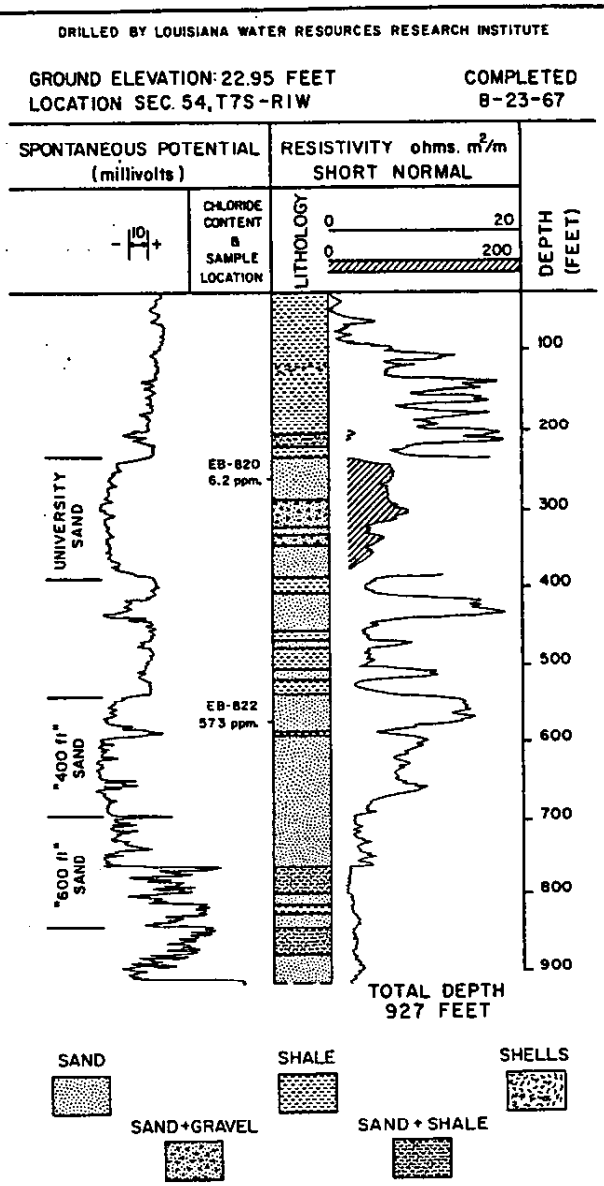
THE "400-600 FT" AQUIFER SYSTEM

The present investigation is focused primarily on two shallow aquifers--the "400-ft" and the "600-ft" sands. In this report they are considered together as the "400-600 ft" aquifer system for two reasons: (1) at some distance north, east, and west of the industrial center--1 to 9 miles



STRUCTURE MAP
CONTOURS ON BASE OF
"UNIVERSITY SAND"

FIG. 6



ELECTRIC LOG, EB-820

(SHOWING LOCATION AND CHARACTERISTICS OF "UNIVERSITY SAND")

FIG. 5

III. GEOHYDROLOGY OF THE AQUIFER SYSTEMS

Aquifers are waterbearing sands having hydrologic continuity and hydraulic boundaries which permit or prevent the movement of water across them. The work described in this report has been limited to four identifiable waterbearing formations which are called, in order of increasing depth, the "alluvial aquifers", the "University Sand", the "400-ft" sand and the "600-ft" sand. Deeper aquifers also exist in the area but time and finances have limited the study to the above-mentioned aquifers.

THE "ALLUVIAL AQUIFER SYSTEM"

The "alluvial aquifer system" includes two mappable sand bodies, the "alluvial aquifer" and the "University Sand." These are included in one aquifer system for two reasons: (1) in well logs in a large area west of the Mississippi River (Figure 4) the two sands appear to be joined, and (2) wells screened in the two aquifers respond similarly to changes in river stage.

THE "ALLUVIAL AQUIFER"

The "alluvial aquifer" includes the sand and gravel units below the fine-grained top stratum of the Mississippi alluvial valley deposits, and above the "University sand." The top of the "alluvial aquifer" is separated from the surface by 50 to 100 ft of fine clay and silt [Cardwell and Rollo, 1960, p. 10]. Martinez [1967, pp. 13-14] provides a "conservative" depth estimate of 95 ft to the sand--the "alluvial aquifer"-- in the back swamp area of the alluvial valley. The depth of the "alluvial aquifer" base is undetermined in some areas. In a large area in West Baton Rouge Parish the clay unit underlying the "alluvial aquifer" is absent and the "alluvial aquifer" and the deeper "University Sand" merge (Figure 4).

Hydrology

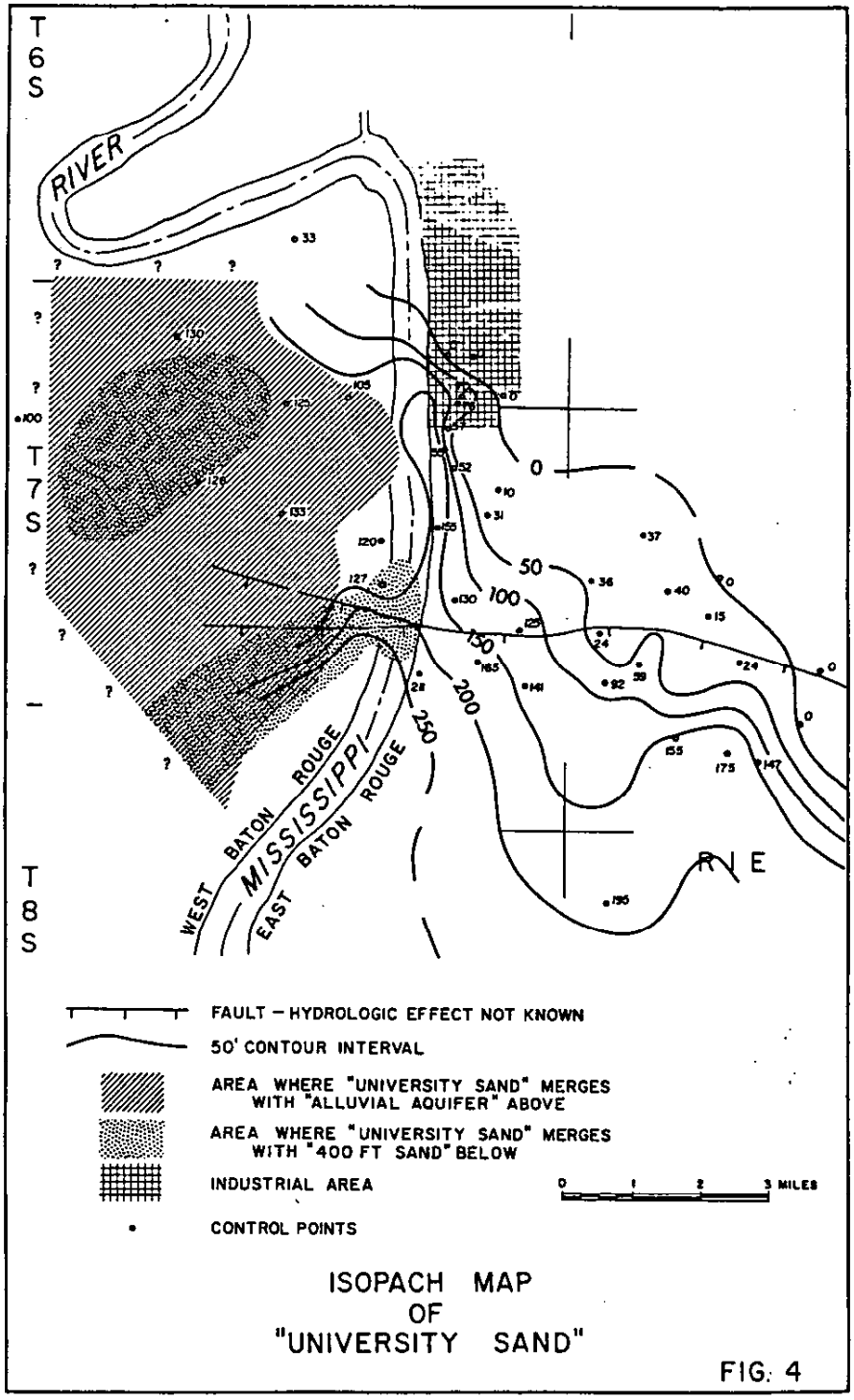
Well EB-242 (T8S, R1W) (Figure 2) has a total depth of 173 ft and is screened in the "alluvial aquifer." Hydrographs of the Mississippi River and well EB-242 published by Morgan [1961, p. 14] ranges from 104,000 gpd/ft to 210,000 gpd/ft and prove a direct connection between the "alluvial aquifer" and the Mississippi River. "During low-river stages the alluvium discharges water into the river, . . . during high-water stages, the alluvium is recharged by the river" [Morgan, 1961, p. 11].

Hydraulic Characteristics

Transmissivity of the "alluvial aquifer," based on aquifer tests conducted at 6 wells screened in the alluvium east of the Mississippi River, ranges from 104,000 gpd/ft to 210,000 gpd/ft and averages 170,000 gpd/ft [Meyer and Turcan, 1955, p. 21]. For the same tests, aquifer storage coefficients (storativities) ranged from 0.001 to 0.009, giving the "alluvial aquifer" water-table and artesian characteristics [ibid., pp. 96-97].

Water Quality

Quality of water from the "alluvial aquifer" has been discussed in several U.S. Geological Survey publications: Meyer and Turcan, 1955; Morgan, 1961; Morgan and Winner, 1964. Generally,



ISOPACH MAP
OF
"UNIVERSITY SAND"

FIG. 4

II. GEOLOGIC FRAMEWORK

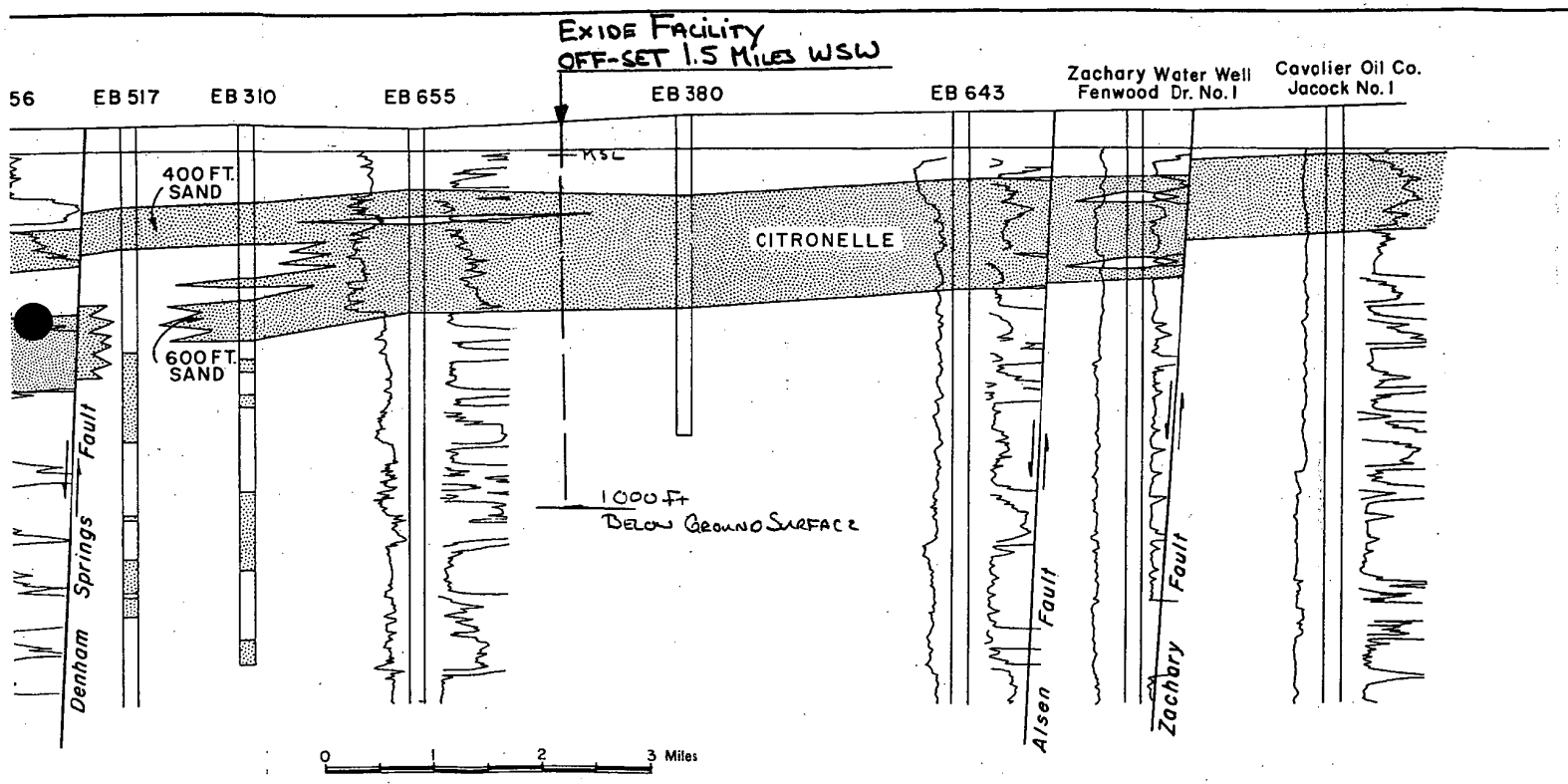
The areal and subsurface geology of the Baton Rouge area have been subjects of several previous reports; [Fisk, Richards, Brown, and Steere, 1938; Cushing and Jones, 1945; Morgan, 1961; Meyer and Turcan, 1955; Durham, Moore, and Parsons, 1967]. A brief summary of the geology follows.

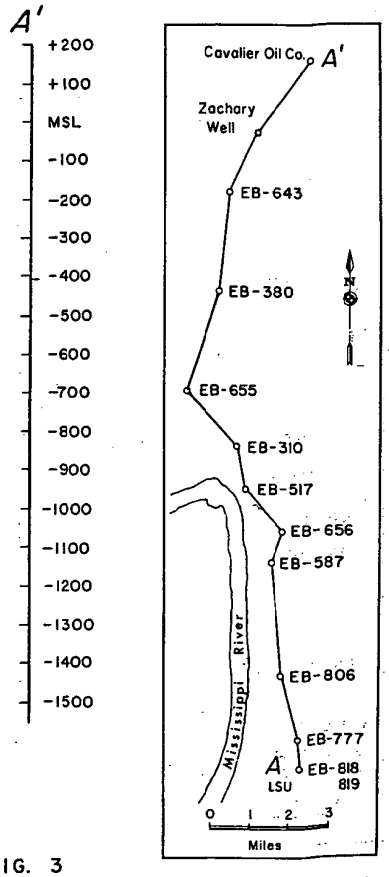
The sands and gravels of the pre-glacial Citronelle terrace formation are the oldest surface sediments in the study area (Figure 1) [Durham, Moore and Parsons, 1967, p. E-6]. The Citronelle terrace slopes southward 15 ft per mile from the highlands of southwestern Mississippi into the Feliciana Parishes of Louisiana and dips below a gulfward thickening wedge of younger Pleistocene sediments in the northern part of the study area [Parsons, 1967, p. 39]. The "400-600 ft" aquifer complex of Baton Rouge, the main subject of this study, is the southern extension of the Citronelle formation [Morgan, 1963, p. 16].

The Pleistocene surface sediments overlapping the Citronelle formation and the "400-600 ft" aquifer complex to the south are two coastwise terrace deposits [Durham, Moore and Parsons, 1967, p. E-7]. The Irene terrace (Figure 1) lies directly on the Citronelle, and has a surface elevation of 100 to 140 ft and a gulfward slope of 4 to 5 ft per mile [Parsons, 1967, p. 56]. The younger Port Hickey terrace forms the remainder of the Pleistocene surface south of the Irene terrace (Figure 1). The Port Hickey surface slopes gulfward at a rate of 1.5 ft per mile from elevations of 80 ft, at the southern limit of the Irene terrace, to less than 40 ft in southern Baton Rouge. A total of nearly 300 ft of Pleistocene terrace sediments overlie the "400-600 ft" aquifer complex in the industrial area of Baton Rouge (see wells EB-587 and EB-656, (Figure 3). The Pleistocene terrace deposits are mostly clay and silt and do not constitute any important widespread aquifers.

Four normal, down-to-the-coast flexure faults are tentatively mapped in the area (Figure 1). From south to north these are the Baton Rouge Fault, the Denham Springs Fault, the Alsen Fault, and the Zachary Fault [Durham and Peeples, 1956, pp. 65 and 66; Parsons, 1967, pp. 51-54]. Each fault has an eroded surface scarp with 5 to 25 ft of relief.

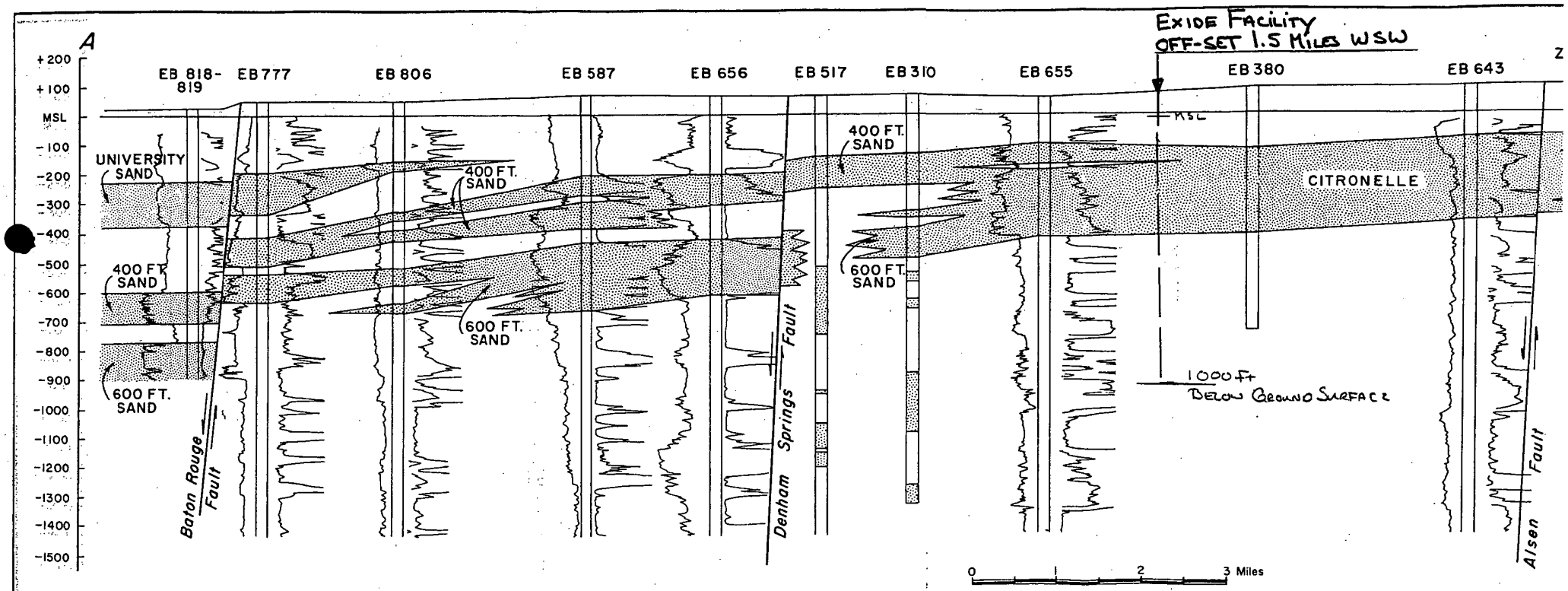
The Mississippi alluvial valley is entrenched into the Pleistocene strata along the western portion of the study area. The surface contact between the Recent sediments of the alluvial plain and the Pleistocene terrace surfaces is marked by a line of 20 to 60 ft high bluffs east of the river. The sediments of the alluvial valley are divided by Fisk [1947, p. 8] into a fine-grained clay and silt top-stratum 50 to 100 ft thick and a sand and gravel substratum, now considered Late Pleistocene in age [Cardwell and Rollo, 1960, p. 10] and recorded as being up to 600 ft thick. The present study has indicated, however, that only the upper part of this sand body, to a depth of -200 ft MSL, is confined to the present alluvial valley. An underlying sand, once thought confined to the alluvial valley, extends eastward beneath the Port Hickey terrace deposits in the vicinity of Louisiana State University and the business district of Baton Rouge. Similarities between this aquifer--the "University Sand"--and the shallower alluvial sand and gravel substratum suggest that the "University Sand" is an earlier Pleistocene river channel deposit which predates the Port Hickey terrace deposits. Basal Port Hickey clays containing a prominent layer of clam shells were encountered above the "University Sand."



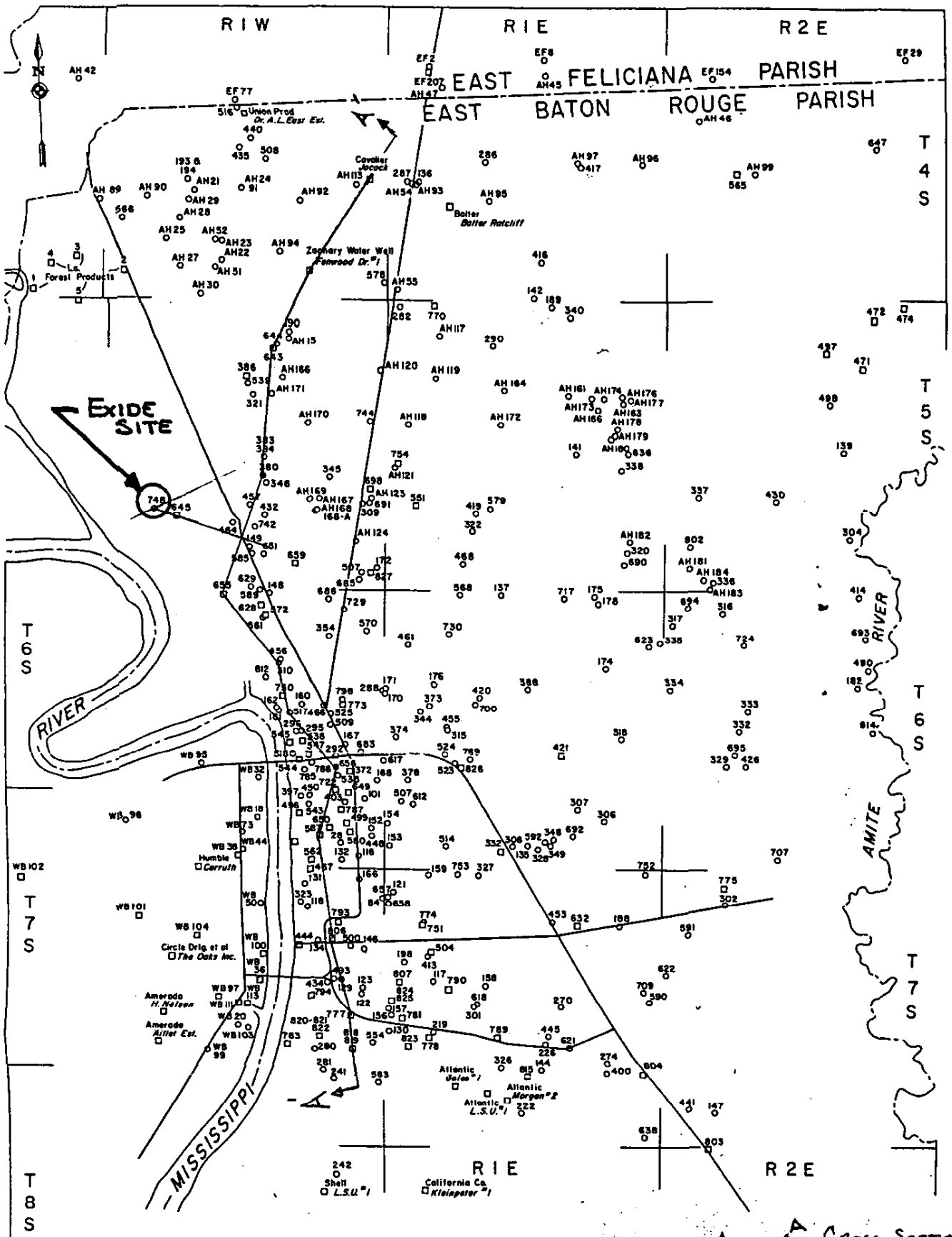


TH CROSS-SECTION OF THE "400-600 ft" AQUIFER SYSTEM

FIG. 3



NORTH-SOUTH CROSS-SECTION OF THE "400-600 ft" AQUIFER SYS



LOCATION MAP OF WELLS AND AUGER HOLES

A A

CROSS-SECTION SHOWN AS FIGURE 3

FIG. 2

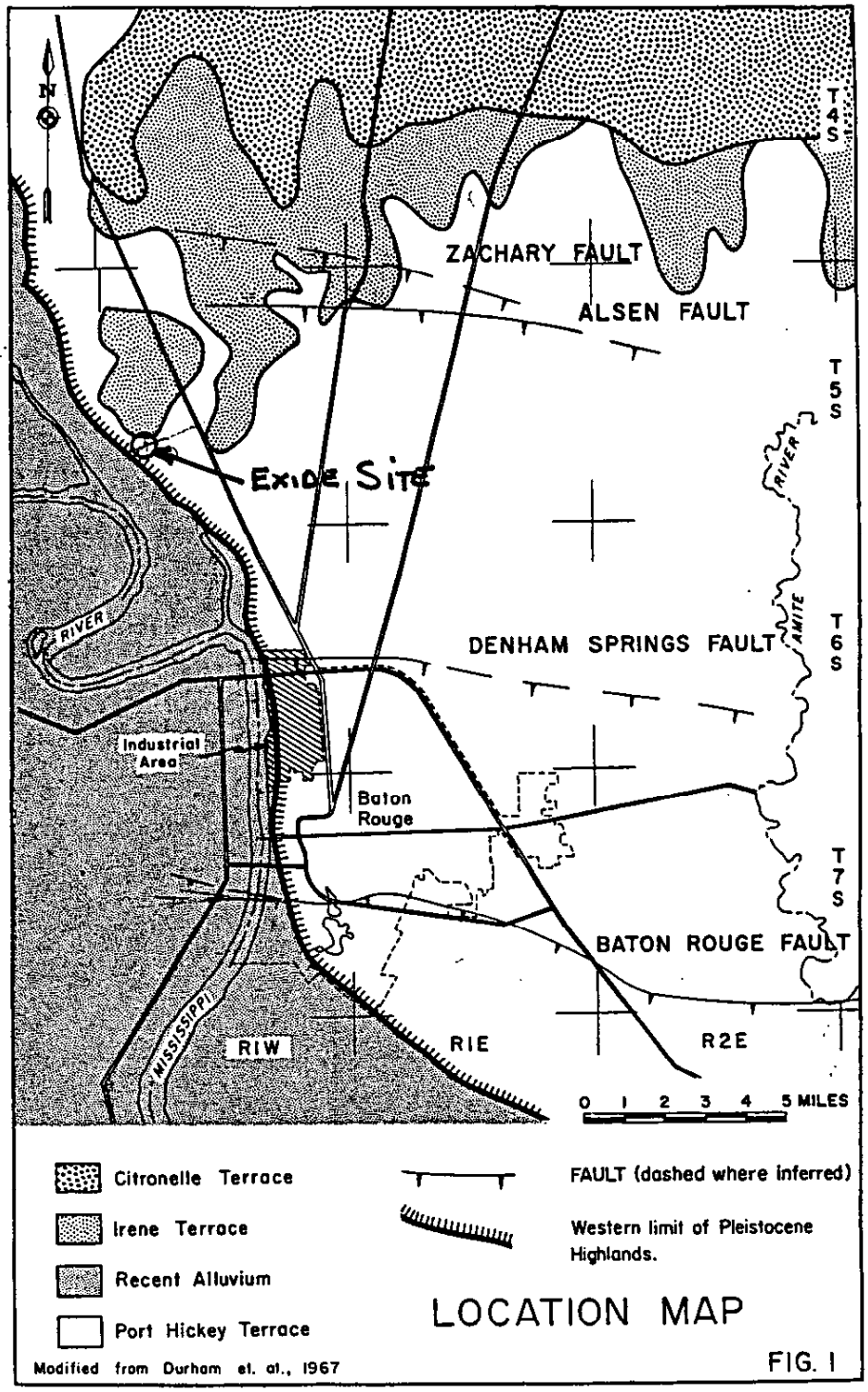
Meyer and Turcan [1955] catalogued all available well records and made numerous new water analyses and aquifer tests. They reported the first evidence of possible salt-water encroachment in the "600-ft" sand and recommended a program to study the situation further.

Durham and Peeples [1956] made a significant contribution to the understanding of the geology of the area when they described the Baton Rouge Fault zone and presented evidence of its existence. C. O. Morgan [1961] re-evaluated the data presented by Meyer and Turcan [1955] and made available new information concerning areal ground-water conditions. Additional evidence to document salt-water encroachment in the "600-ft" sand was presented. In a later report Morgan and Winner [1964] published maps showing the position of salt water in each of the ten aquifers and predictions as to when salt water might reach the industrial wells in each aquifer. In all aquifers except the "600-ft", "800-ft", and "2800-ft" sands, the northern limit of salt water coincided with the east-west trace of the Baton Rouge Fault. Morgan and Winner recommended a drilling program to establish additional control points and to monitor salt-water movement.

A progress report by Meyer and Rollo [1965], based on the first results of this program, showed that displacement along the Baton Rouge Fault created a hydrologic discontinuity in the "1200-ft" and "2000-ft" sands. In their report, the "400-ft" sand on the south side of the fault appeared to be hydraulicly connected with the "600-ft" sand on the north side.

WELL NUMBERING

Wells used in this report are for the most part assigned numbers by the U.S. Geological Survey. Such wells in East Baton Rouge Parish are prefixed by "EB". Similarly, wells located in West Baton Rouge Parish are prefixed by "WB". The prefix "EF" designates wells located in East Feliciana Parish. Auger holes drilled during this study are given the prefix "AH". All other wells are identified by the name of the owner. Well and auger hole locations are shown in Figure 2.



Modified from Durham et. al., 1967

LOCATION MAP

FIG. 1

I. INTRODUCTION

BACKGROUND

Ten fresh-water aquifers, ranging in depth from 100 ft to 3000 ft, supply approximately 27 million gallons of ground water per day for municipal purposes and 60 million gallons per day for industrial use for the city of Baton Rouge, Louisiana [Bieber and Forbes, 1966, p. 6]. Salt water occurs below 3000 ft in much of the area, but south of the city all aquifers contain salt water [Cushing and Jones, 1945, p. 11]. The U.S. Geological Survey realized the problem of salt-water encroachment when chloride increases were noticed in the water of the "600-ft" sand in the City Park well (EB-123; T7S, R1E) in 1948. To date (1969), northward movement of salt water toward the industrial center in north Baton Rouge has been documented only in the "600-ft" sand.

The Louisiana Water Resources Research Institute began to finance a study of the problem of salt-water encroachment in the Baton Rouge aquifers in 1965. The investigators originally thought it would be necessary to protect all ten aquifers against salt-water invasion and thereby provide a permanent, high-quality water supply for the city. Kazmann [1967, p. 27] reported such a supply could be ensured if the "400-600 ft" aquifer complex were protected from salt-water invasion and adequately recharged. The present report details the geological investigation of these two shallow aquifers and preliminary conclusions reached as a result of the study.

The investigation began with the mapping of the Citronelle formation in the probable recharge area of the "400-600 ft" aquifer system, up to 50 miles north of Baton Rouge, in southwestern Mississippi and the Feliciana Parishes of Louisiana. The results of this work are embodied in a report by Wallace [1966] and a Master's thesis by Parsons [1967]. The present study was designed (1) to construct detailed hydrologic maps of both the "400-ft" and "600-ft" sands throughout East Baton Rouge Parish, (2) to establish the hydrologic boundaries of these two aquifers in the study area, and (3) to establish the relationship between the Citronelle and the "400-ft" and "600-ft" aquifers.

LOCATION OF STUDY AREA

The study area is located in southeastern Louisiana on the Gulf Coastal Plain. The area of investigation includes all of East Baton Rouge Parish, eastern West Baton Rouge Parish and southern East Feliciana Parish (Figure 1). Baton Rouge is the largest city in the area. The greater Baton Rouge area has a present (1969) population of approximately 280,000. The industrial area of the city, in northwest Baton Rouge, is the center of pumping for the "400-ft" and "600-ft" aquifers [Morgan and Winner, 1964, pp. 10-12].

PREVIOUS INVESTIGATIONS

The geology and ground-water hydrology of the Baton Rouge area have been the subject of many previous reports. G. D. Harris [1905] was the first to publish observations of water depths and water quality in wells of East Baton Rouge Parish [Meyer and Turcan, 1955, p. 5].

Cushing and Jones [1945] compiled geologic and hydrologic data in the first comprehensive study of ground water conditions in Baton Rouge. Their report was the first to outline the stratigraphy and water quality of all the water-bearing sands. They documented water level declines in the "400-ft" and "600-ft" sands since 1914 and proposed that conservation measures be adopted to ensure continued use of these aquifers.

TITLE: GEOHYDROLOGY OF THE SHALLOW AQUIFERS OF BATON ROUGE, LOUISIANA

DESCRIPTORS: *aquifers, *groundwater, *hydrogeology, groundwater barriers, saline water intrusion, subsurface mapping, faults (geology), water quality, observation wells, hydrographs

ABSTRACT: In Baton Rouge, the "400-ft" and "600-ft" sands furnish 22% of the annual groundwater offtake from 10 major aquifers. Salt water has been advancing northward toward the industrial center in the "600-ft" sand as a result of hydraulic gradients created by industrial ground-water pumpage. Three miles south of this area, the Baton Rouge fault obstructs the flow of water from the south side of the fault. Apparently the salt water intruding the industrial wells was trapped in the "600-ft" sand north of the fault and an unknown distance west of the Mississippi River. The "400-600 ft" aquifer complex was not affected to any extent by the Denham Springs fault immediately north of the city, because hydraulic continuity exists at least 8 miles farther north. Local pinchouts of the two aquifers obstruct flow north and southwest of the industrial area. Well hydrographs show that the Mississippi River indirectly replenishes the "400-600 ft" complex west of the river through the "University Sand," which was first identified during the study. Removal of the salt water north of the fault will result in natural replenishment with fresh water.

REFERENCE: Smith, Charles G., Jr., GEOHYDROLOGY OF THE SHALLOW AQUIFERS OF BATON ROUGE, LOUISIANA, Louisiana Water Resources Research Institute Bulletin GT-4, Louisiana State University, Baton Rouge, October 1969.

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REFERENCE: Smith, Charles G., Jr., GEOHYDROLOGY OF THE SHALLOW AQUIFERS OF BATON ROUGE, LOUISIANA, Louisiana Water Resources Research Institute Bulletin GT-4, Louisiana State University, Baton Rouge, October 1969.

SUMMARY

The "400-ft" and "600-ft" sands supply approximately 22% of the annual ground-water offtake from the 10 major aquifers in the Baton Rouge area. Salt water has been moving northward in the "600-ft" sand toward the industrial pumping center. This study was made to determine the geohydrology of the aquifers in order to take effective action against the threat to the industrial water supplies of salt-water degradation.

The Baton Rouge Fault, three miles south of the industrial area and immediately south of the saline-encroached area, was found to act as a barrier to the northward flow of salt water in the "600-ft" sand. Thus the salt water existing south of the fault is not the source of the encroaching salt water to the north. The salt water moving toward the pumping center appears to have been trapped north of the fault and west of the river. It is moving toward the industrial area in response to hydraulic gradients created by industrial ground-water offtake.

The Denham Springs Fault, immediately north of the industrial area, has not proved to be a hydrologic barrier in the "400-ft" or the "600-ft" sands, because the hydraulic continuity of the "400-600 ft" aquifer complex has been shown to be continuous at least eight miles farther north.

Local "pinch-outs" of the aquifers obstruct the movement of water in both the "400-ft" and 600-ft" sands north and southwest of the industrial area. Analyses of hydrographs of observation wells in the "400-600 ft" aquifer complex show that the Mississippi River indirectly replenishes this complex through a shallow aquifer identified during the study and termed the "University Sand". Observation wells completed in the "University Sand" show it to be hydraulically connected with the Mississippi River.

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TC
424
L8
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no.4

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1-27-72 RCL

EDITORIAL NOTE

This publication is the fourth of a series that will, it is hoped, increase the readership of selected graduate-level papers concerning water resources. In this broad field, problems involving humanity (its present or future welfare) spring up to confuse--and mistakes, to snare--planners, designers, and constructors. Consequently, the papers chosen to be published will be those that stimulate thinking, warn of danger, criticize accepted theories, and evaluate real problems.

Originally, Charles G. Smith, Jr. submitted this report to Louisiana State University as partial fulfillment of the requirements for the Master of Science in Geology. A portion of the geological work was financed by an allotment from the Office of Water Resources Research (A-004-LA) as part of a cooperative, matching-funds project (B-002-LA) supported by both the OWRR and the East Baton Rouge City-Parish government under the provisions of Public Law 88-379.

Minor changes have been made in the text for the sake of clarity, and some illustrations have been modified for reproduction in this smaller format. However, the ideas and style remain essentially those of the author and do not necessarily reflect any official point of view adopted by Louisiana State University.

Charles W. Hill
Research Associate

ACKNOWLEDGEMENTS

I am especially grateful to: Professor R. G. Kazmann, Associate Director of the Louisiana Water Resources Research Institute, for his direction and assistance during the investigation and report writing; Drs. C. H. Moore, Jr., Associate Professor of Geology, and C. O. Durham, Jr., Director of the School of Geology, for their guidance and encouragement; Mr. James H. Darrell II, for his management of much of the field work for this study; Mr. George Cardwell, of the U.S. Geological Survey, for data and counsel whenever I asked; and Mrs. Norma B. Duffy, for the drafting of the figures.

Charles G. Smith, Jr.

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BULLETIN GT-4

OCTOBER 1969

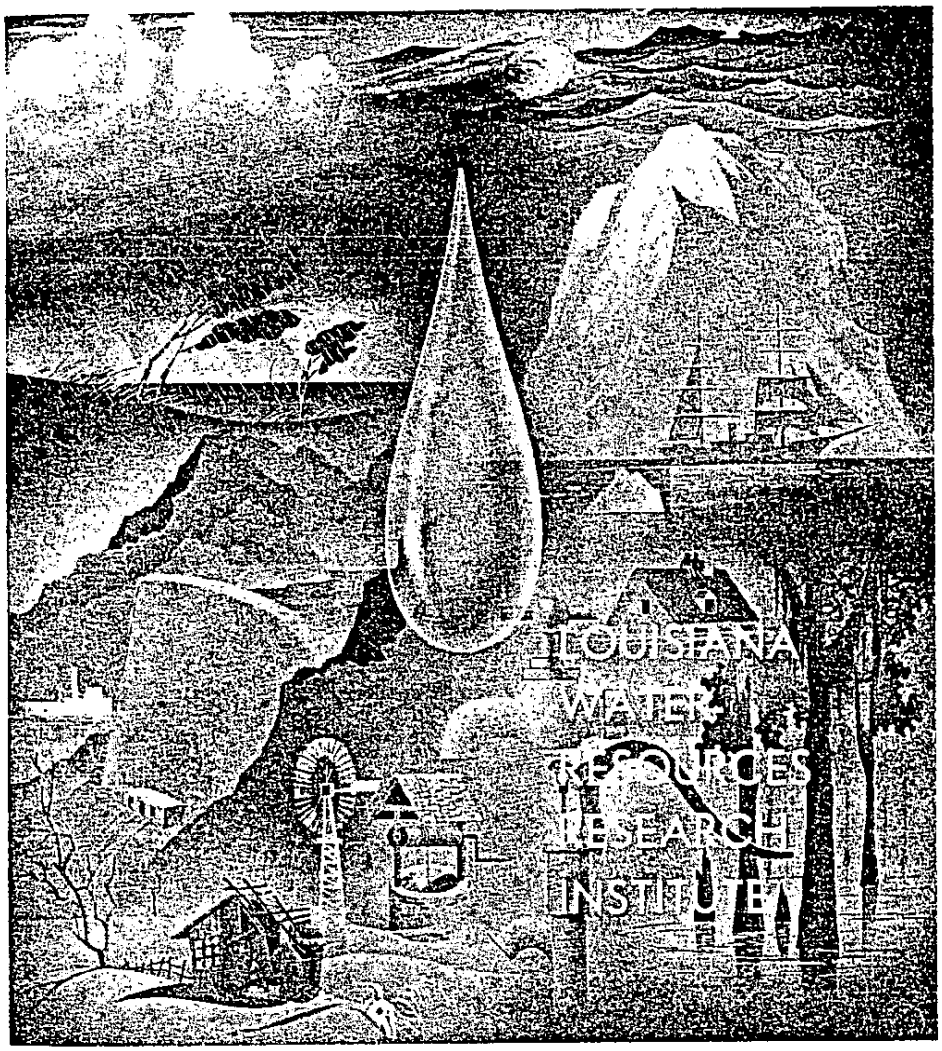
GEOHYDROLOGY OF THE SHALLOW AQUIFERS OF BATON ROUGE, LOUISIANA

Charles G. Smith, Jr.

LOUISIANA STATE UNIVERSITY

BATON ROUGE, LOUISIANA 70803

OCTOBER 1969 BULLETIN GT-4



GEOHYDROLOGY OF THE SHALLOW AQUIFERS OF BATON ROUGE, LOUISIANA

CHARLES G. SMITH, JR.

LOUISIANA STATE UNIVERSITY

GEOHYDROLOGY OF THE SHALLOW AQUIFERS OF BATON ROUGE, LOUISIANA

CHARLES G. SMITH, JR.

OCTOBER 1969

aquaterra engineering
Environmental and Geotechnical Consultants

LOG OF BORING NO. MW-15A

Project Number : 9701400
Boring Location : N E
Surface Elevation :

Date Started : 3-16-99
Drill Rig : Failing 1500
By : D. Jones

GROUND WATER OBSERVATIONS
Ground water encountered at 36 ft bgs rose to 35.55 after 15 min.

DEPTH(ft)	SYMBOL	SAMPLES	SPT (b/ft) or PENETROMETER(P)	OVA READING (ppm)	MATERIAL DESCRIPTION	COHESION (ksf)	DRY DENSITY(pcf)	WATER CONTENT(%)	Atterberg: LIQUID LIMIT	Atterberg: PLASTICITY INDEX	Grain Size: % SAND	Grain Size: % SILT	Grain Size: % CLAY	FOOTNOTES
					Stiff Brown Tan CLAYEY SILT (ML) moist									
					—becoming gray and mottled									
5					—becoming soft									
					Soft Brown Gray SILTY CLAY (CL) w/ trace sand and roots moist									
					—becoming medium									
10														
					—becoming stiff, tan and mottled									
15														
					—w/ black concretions									
					—becoming brown tan									
20					Medium Stiff Brown Tan CLAYEY SILT (ML) moist									
					—becoming soft brown tan silt wet									
25					—becoming gray and moist									
					Stiff Brown Tan SILTY CLAY (CL) moist									
30					—w/ soft gray silt lense									
					—becoming gray tan									
35					—becoming moist									
					Loose Tan SAND (SP) saturated									
					Stiff Brown Gray CLAY (CL) dry									
40					Boring terminated at 40' bgs.									
45														
50														

BORING ADVANCEMENT METHOD
8" Auger 0-40'.
8" Rotary Wash 0-40'.

BORING ABANDONMENT METHOD
Monitor well MW-15A was installed in borehole.

FOOTNOTES

aquaterra engineering
Environmental and Geotechnical Consultants

LOG OF BORING NO. MW-14A

Project Number : 9701400
Boring Location : N E
Surface Elevation :

Date Started : 3-17-99
Drill Rig : Failing 1500
By : D. Jones

GROUND WATER OBSERVATIONS
Ground water encountered at 34 feet bgs.

DEPTH(ft)	SYMBOL	SAMPLES	SPT (b/ft) or PENETROMETER(P)	OVA READING (ppm)	MATERIAL DESCRIPTION	COHESION (ksf)	DRY DENSITY(pcf)	WATER CONTENT(%)	Atterberg: LIQUID LIMIT	Atterberg: PLASTICITY INDEX	Grain Size: % SAND	Grain Size: % SILT	Grain Size: % CLAY	FOOTNOTES
					Stiff Brown CLAYEY SILT (ML) moist									
					—becoming medium and tan w/ concretions									
5					—becoming soft and gray									
					—becoming stiff									
10					—w/ less clay from 10-14'									
					—becoming medium w/ trace sand									
15					—becoming gray tan w/ little clay and trace sand moist									
					Medium Stiff Gray Tan SILTY SAND (SM) moist									
					Medium Stiff Gray Tan CLAYEY SAND (SC) w/ little clay moist									
20					Medium Stiff Brown Gray Tan CLAYEY SILT (ML) moist									
					Medium Stiff Gray Tan SILTY CLAY (CL) moist									
25					—becoming very stiff and brown w/ trace sand									
					—w/ trace ferric nodules									
30					—becoming stiff									
					—becoming soft w/ little sand at bottom									
35					Loose Tan SAND (SP) saturated w/ clay at bottom of sample									
					Boring terminated at 36' bgs.									
40														
45														
50														

BORING ADVANCEMENT METHOD
6" Auger 0-36'.
6" Rotary Wash 0-36'.

BORING ABANDONMENT METHOD
Monitor Well MW-14A was installed in borehole.

FOOTNOTES

03-02709010

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LOG OF BORING NO. MW-1A

Project Number : 9701400
Boring Location : N E
Surface Elevation :

Date Started : 3-15-99
Drill Rig : FAILING 1500
By : D. Jones

GROUND WATER OBSERVATIONS
Ground water encountered at 40 ft. bgs.

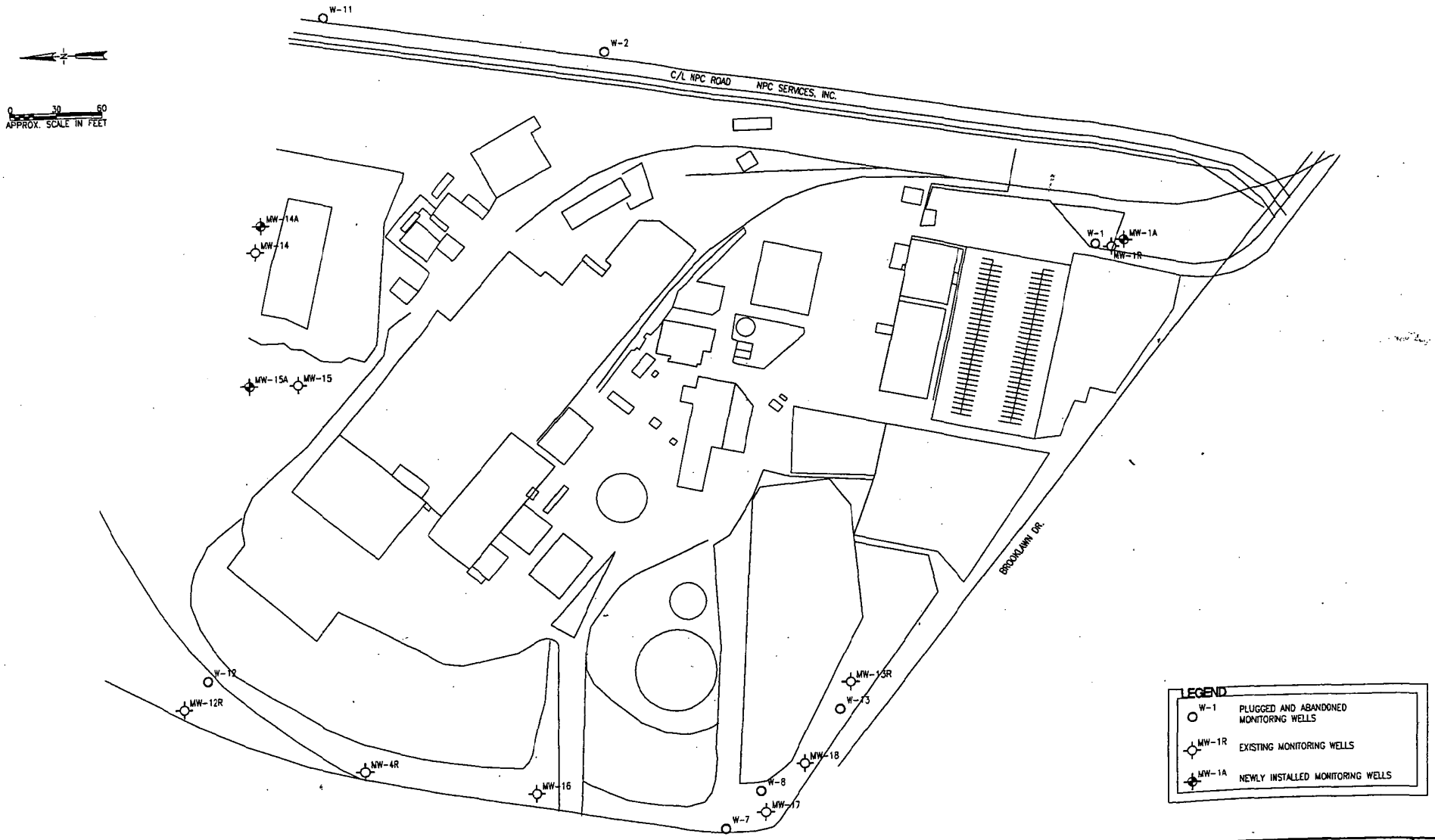
DEPTH(ft)	SYMBOL	SAMPLES	SPT (b/ft) or PENETROMETER(P)	OVA READING (ppm)	MATERIAL DESCRIPTION	COHESION (ksf)	DRY DENSITY(pcf)	WATER CONTENT(%)	Atterberg: LIQUID LIMIT	Atterberg: PLASTICITY INDEX	Grain Size: % SAND	Grain Size: % SILT	Grain Size: % CLAY	FOOTNOTES
					Medium Brown Gray GRAVELLY SILT (FILL) moist									
					Medium Stiff Brown Gray Mottled CLAYEY SILT/SILTY CLAY (ML/CL) moist									
5														
					-becoming tan from 8 to 36 ft.									
10					-less brown 10 to 18 ft.									
					-stiff below 12 ft.									
15					-very stiff and brown below 15 ft.									
					-hard below 17 ft.									
					-siltier below 18 ft.									
20														
					-w/ black concretions at 22 ft.									
25														
					-stiff below 26 ft. -clayey from 26 ft to 28 ft.									
30														
35					-w/ ferric nodules at 36 ft.									
40					Loose Brown SAND (SP) saturated									
					-clay at bottom of sample									
45					Boring terminated at 44' bgs.									
50														

BORING ADVANCEMENT METHOD
8" Auger 0-44'.
8" Rotary Wash 0-44'.

BORING ABANDONMENT METHOD
Monitor well MW-1A was installed in borehole.

FOOTNOTES

03-02709009



NOTE:
FIGURE BASED ON EXIDE DRAWING:
720-C:\DRAWINGS\SCHUYLKILL\WASTECELL\CLOSED WASTE AREAS.DWG

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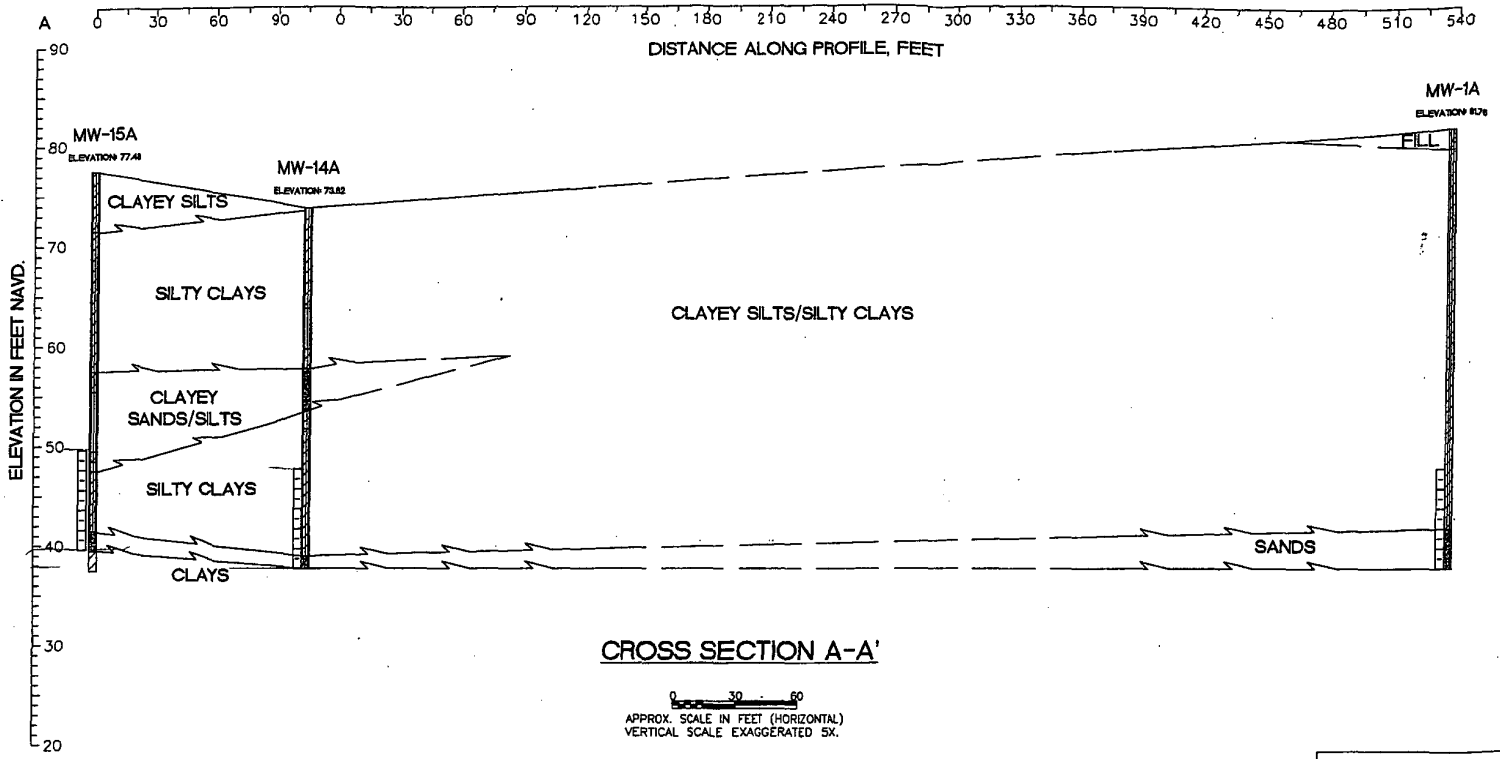
ENVIRONMENTAL AND GEOTECHNICAL CONSULTANTS

APPROVED BY:	
DATE: 22 April 99	
DRAFTED BY: MB	DATE: 29 MAR 99
CHECKED BY:	DATE:
LAST REVISION BY: MB	DATE: 13 APR 99
PROJECT NO.: 970/400	FILE NO:03-07F0015

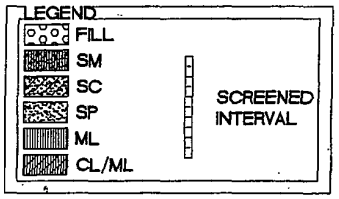
WELL LOCATION DIAGRAM
EXIDE CORPORATION
BATON ROUGE SMELTER
BATON ROUGE, LOUISIANA

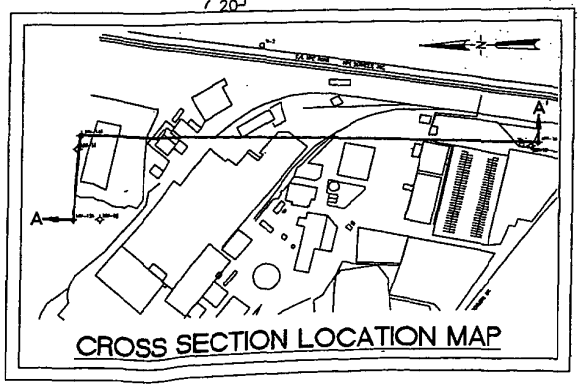
FIGURE 2



CROSS SECTION A-A'

0 30 60
APPROX. SCALE IN FEET (HORIZONTAL)
VERTICAL SCALE EXAGGERATED 5X.





NOTES: INFORMATION BETWEEN BOREHOLES HAS BEEN INTERPOLATED TO CREATE THIS CROSS SECTION. SUBSURFACE CONDITIONS MAY VARY FROM THOSE DEPICTED. THE SOIL BORING LOGS PRESENT SUBSURFACE CONDITIONS ONLY AT THE LOCATIONS INDICATED. DETAILED BORINGS LOGS ARE PROVIDED ON SEPARATE SHEETS.

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APPROVED BY:	
DATE: 23 April 99	
DRAWN BY: MS	DATE: 23 APR 99
CHECKED BY:	DATE:
LAST REVISION BY: MS	DATE: 23 APR 99
PROJECT NO: 8701400	FILE NO: 8701-CS7DRG3

CROSS SECTION DIAGRAM A-A'
EXIDE CORPORATION
BATON ROUGE SMELTER
BATON ROUGE, LOUISIANA

FIGURE 3

EXERPTS FROM
AQUATERRA ENGINEERING
MONITORING WELL INSTALLATION
AND
MONITOR WELL ABANDONMENT REPORT
APRIL 23, 1999

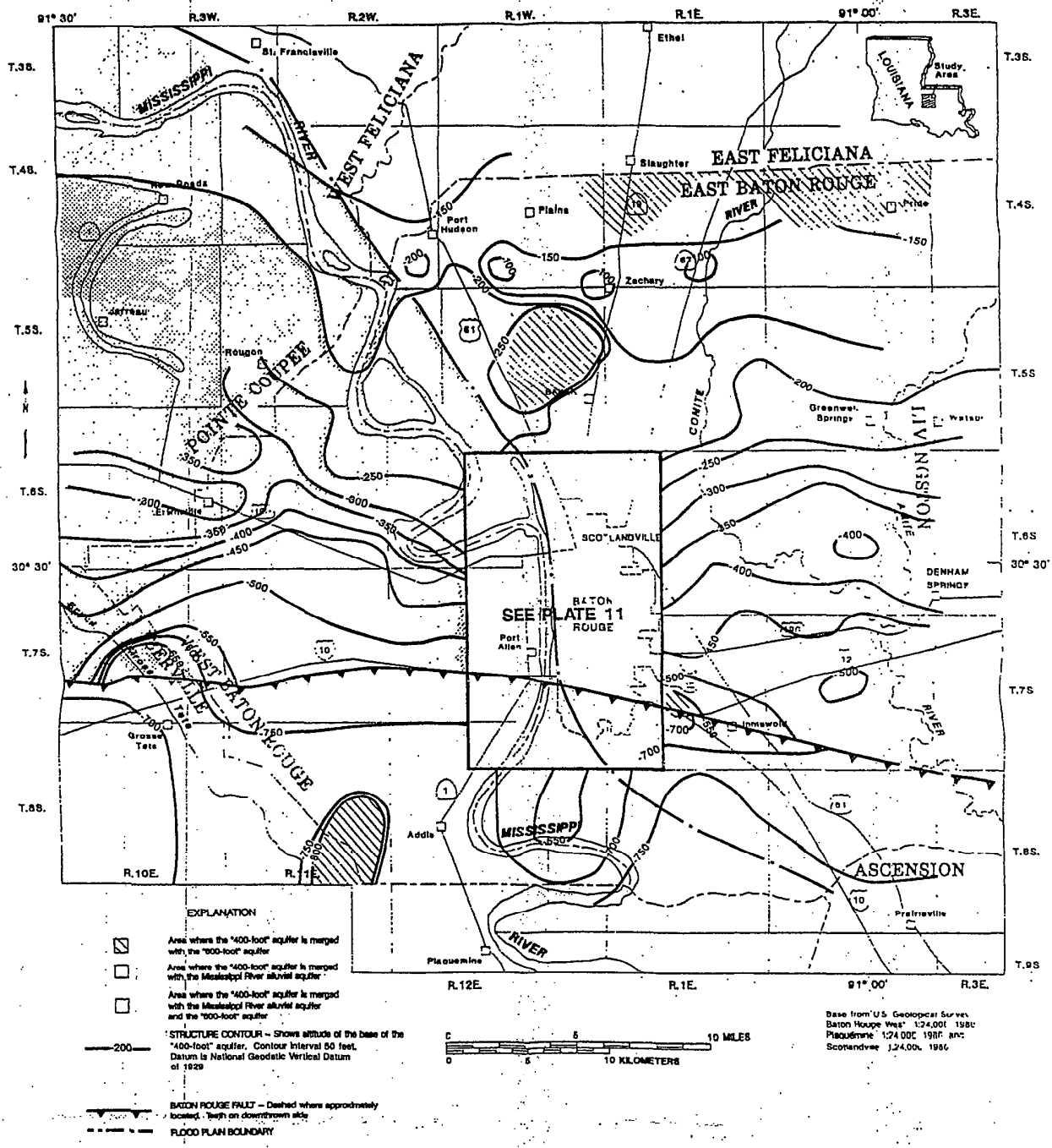


PLATE 12. ALTITUDE OF THE BASE OF THE "400-FOOT" AQUIFER IN EAST BATON ROUGE PARISH AND THE SURROUNDING PARISHES, LOUISIANA.

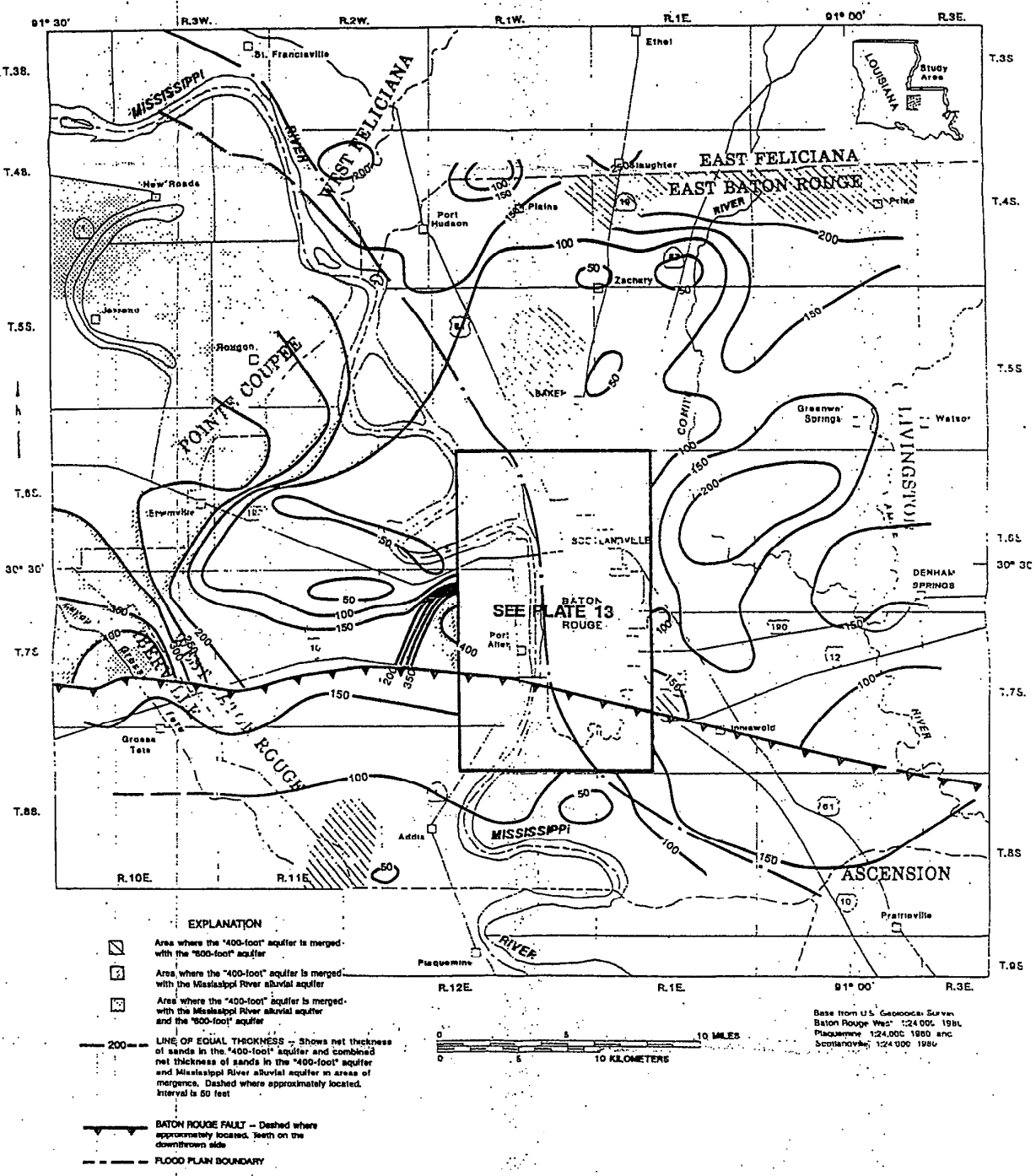


PLATE 14. NET SAND THICKNESS OF THE "400-FOOT" AQUIFER IN EAST BATON ROUGE PARISH AND SURROUNDING PARISHES, LOUISIANA.

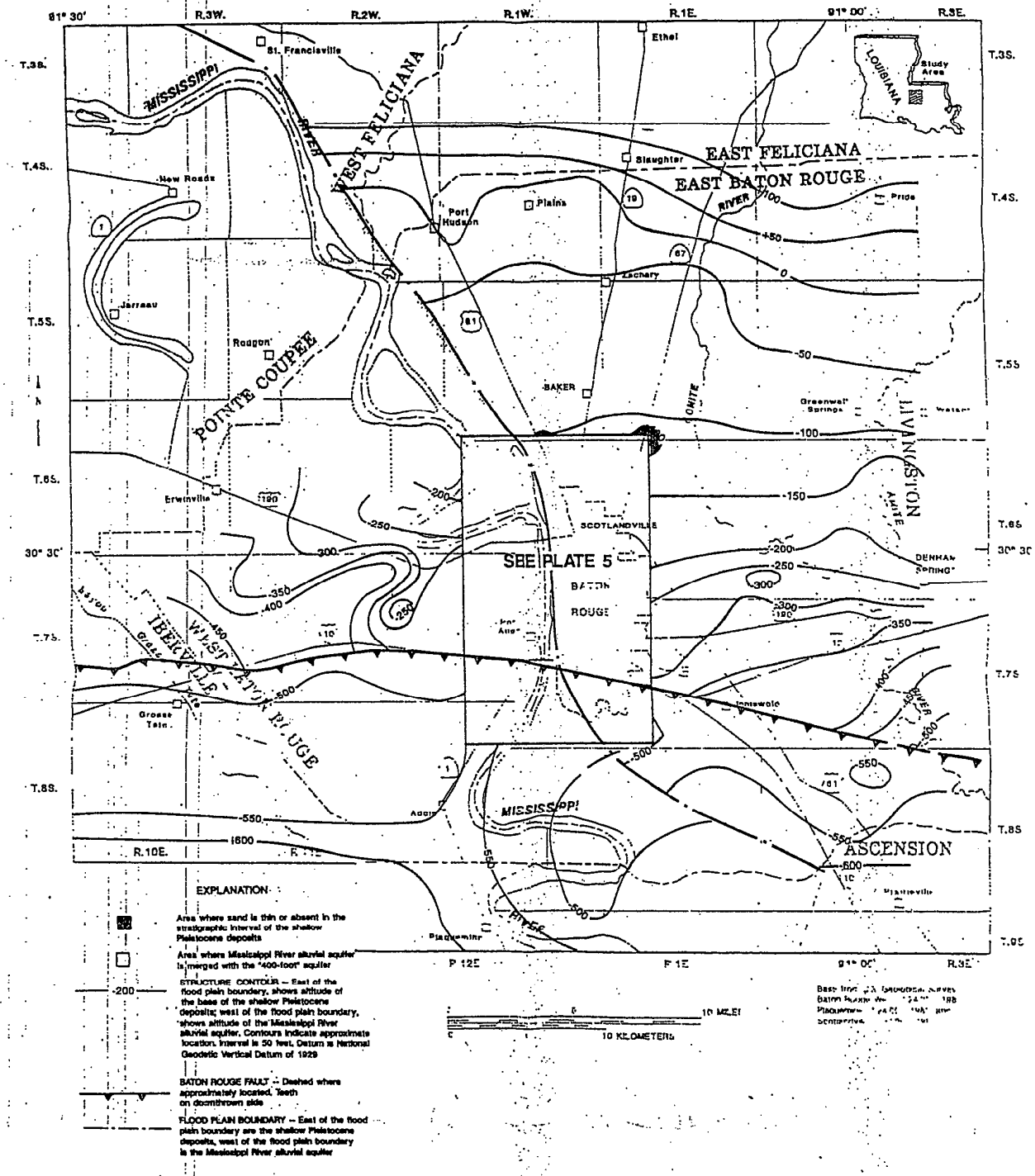


PLATE 6. ALTITUDE OF THE BASE OF THE SHALLOW PLEISTOCENE DEPOSITS AND THE MISSISSIPPI RIVER ALLUVIAL AQUIFER IN EAST BATON ROUGE PARISH AND THE SURROUNDING PARISHES, LOUISIANA.

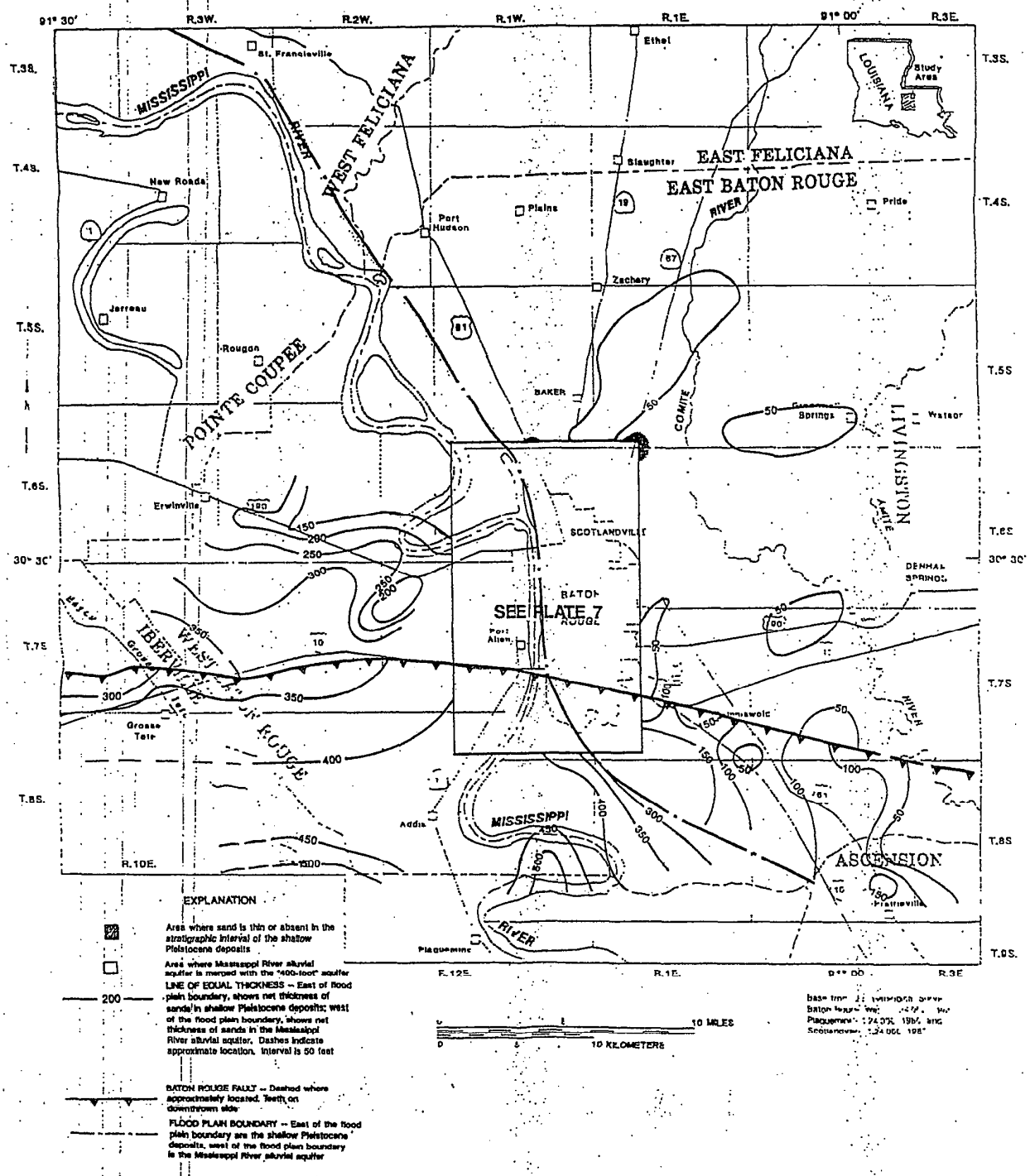
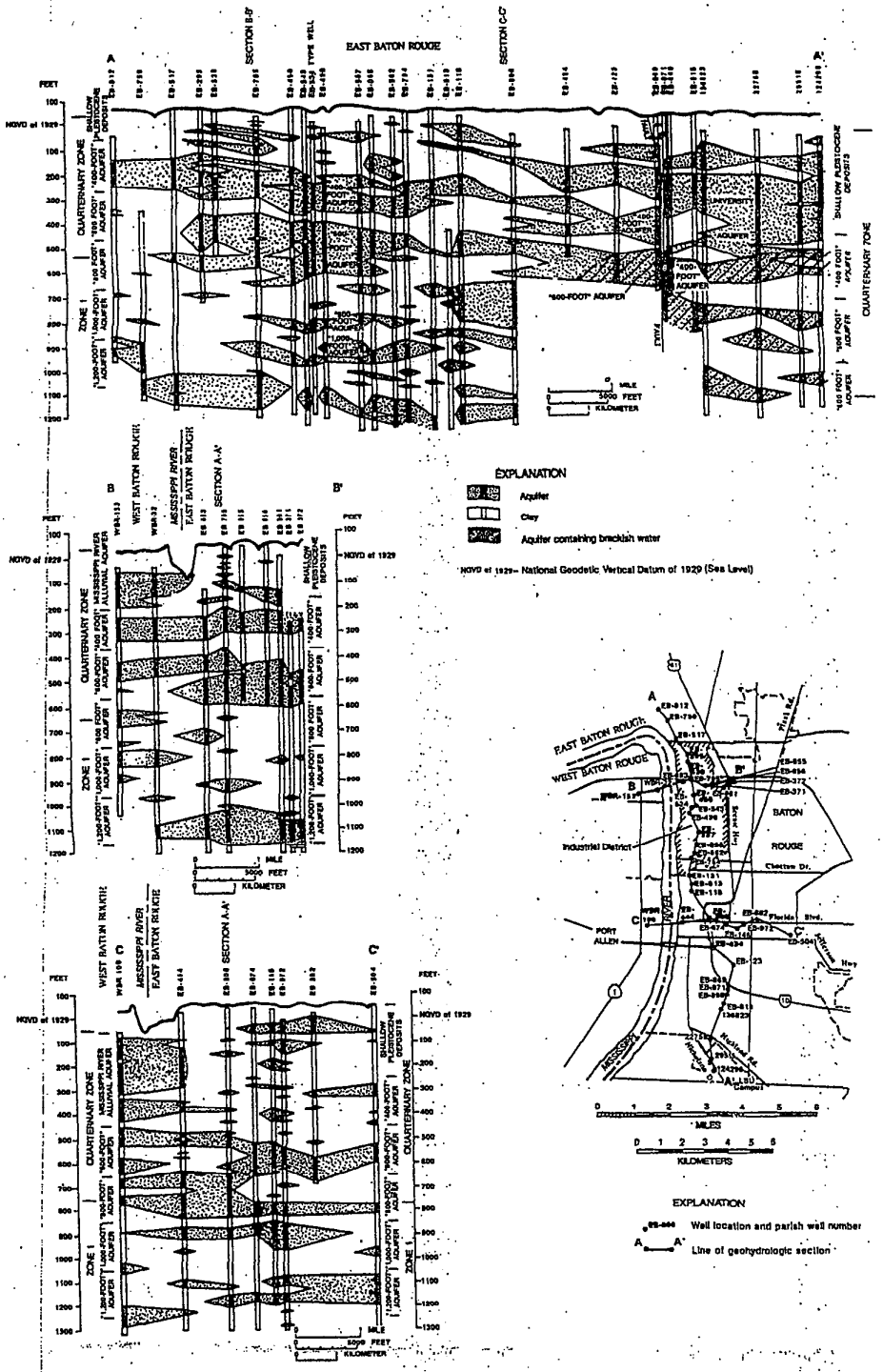
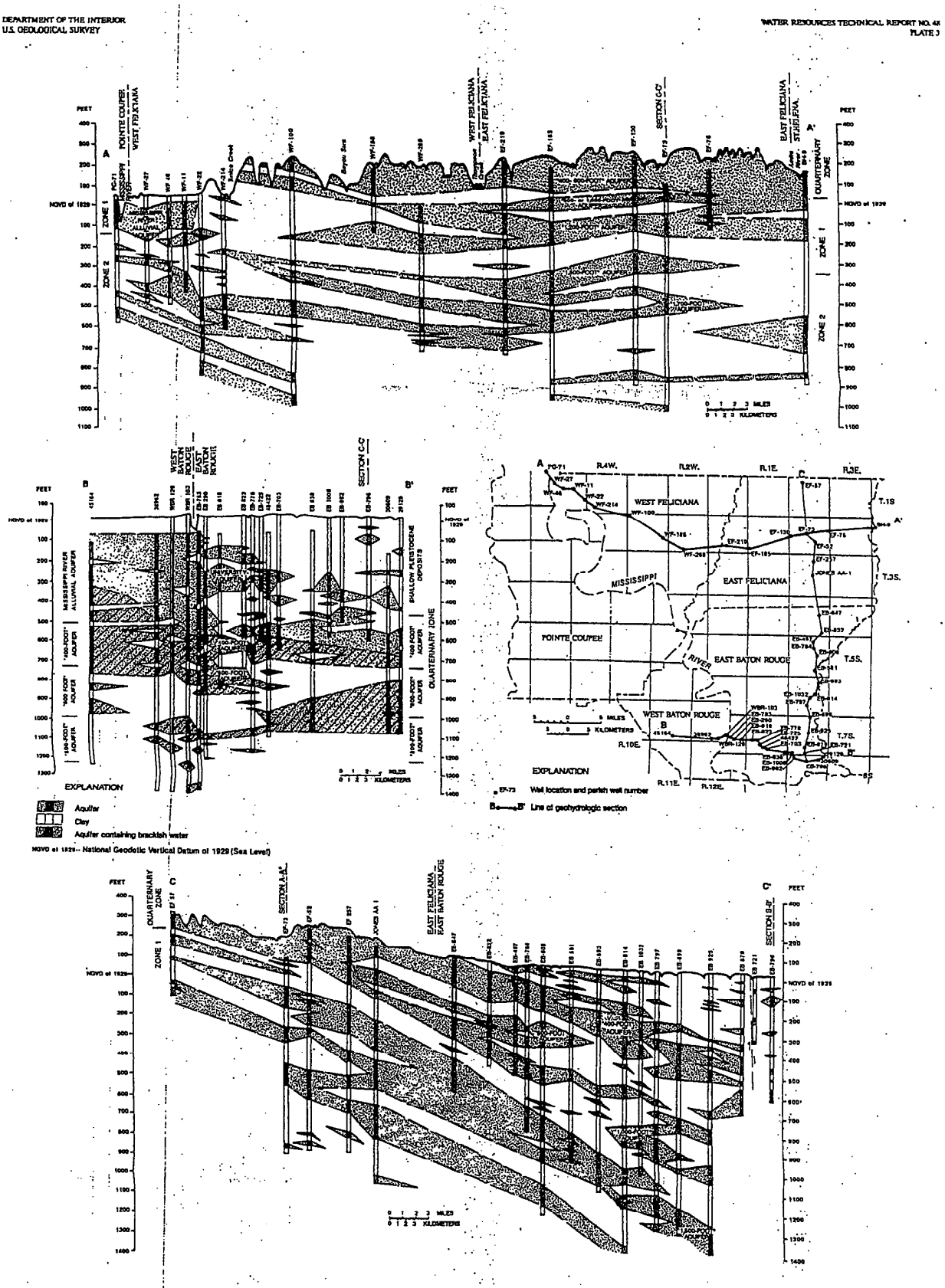


PLATE 8. NET SAND THICKNESS IN SHALLOW PLEISTOCENE DEPOSITS AND THE MISSISSIPPI RIVER ALLUVIAL AQUIFER IN EAST BATON ROUGE PARISH AND THE SURROUNDING PARISHES, LOUISIANA.



DETAILED GEOHYDROLOGIC SECTIONS THROUGH EAST AND WEST BATON ROUGE PARISHES, LOUISIANA.



GEOHYDROLOGIC SECTIONS THROUGH EAST AND WEST BATON ROUGE, EAST AND WEST FELICIANA, POINTE COUPEE, AND ST. HELENA PARISHES, LOUISIANA.

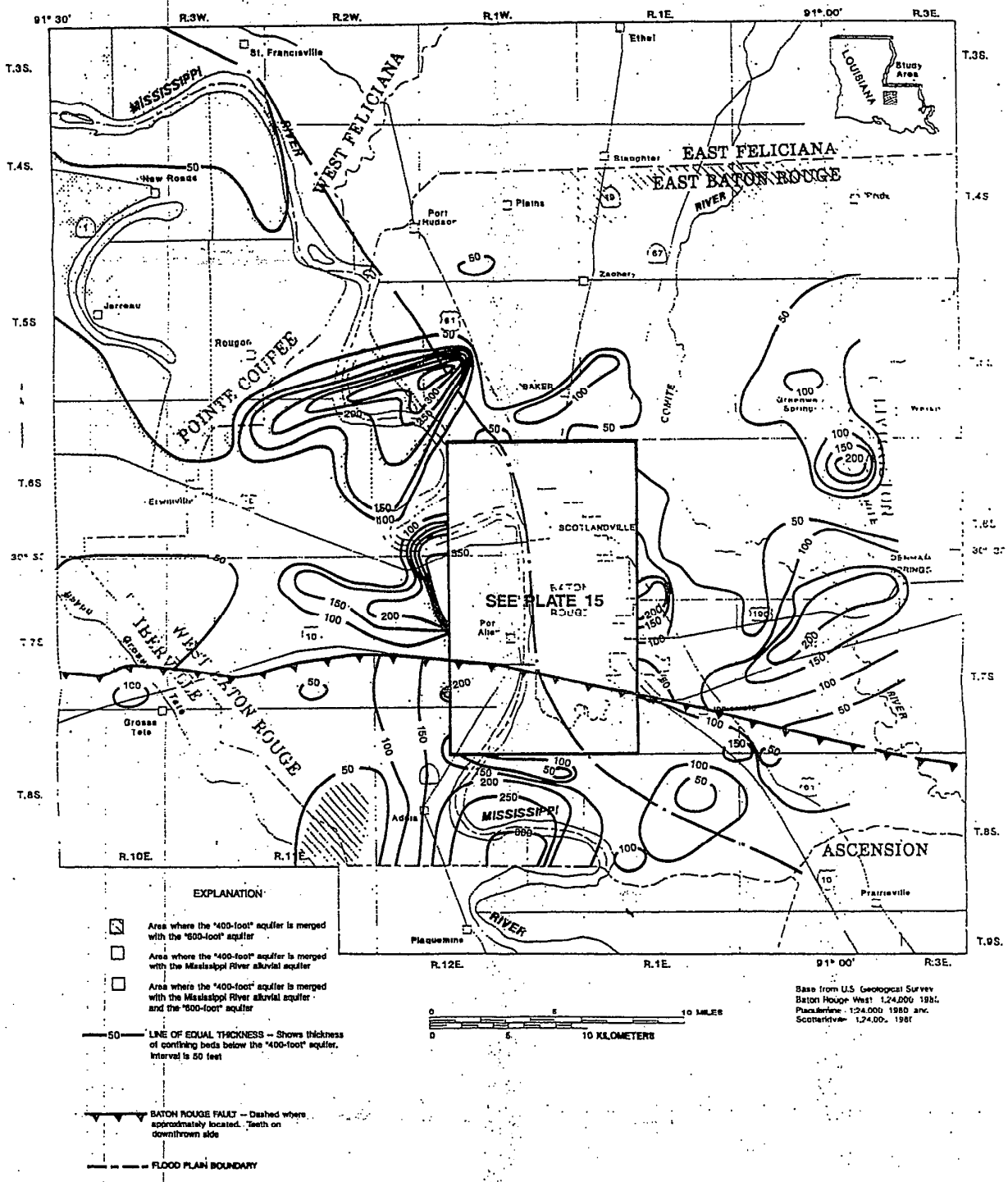
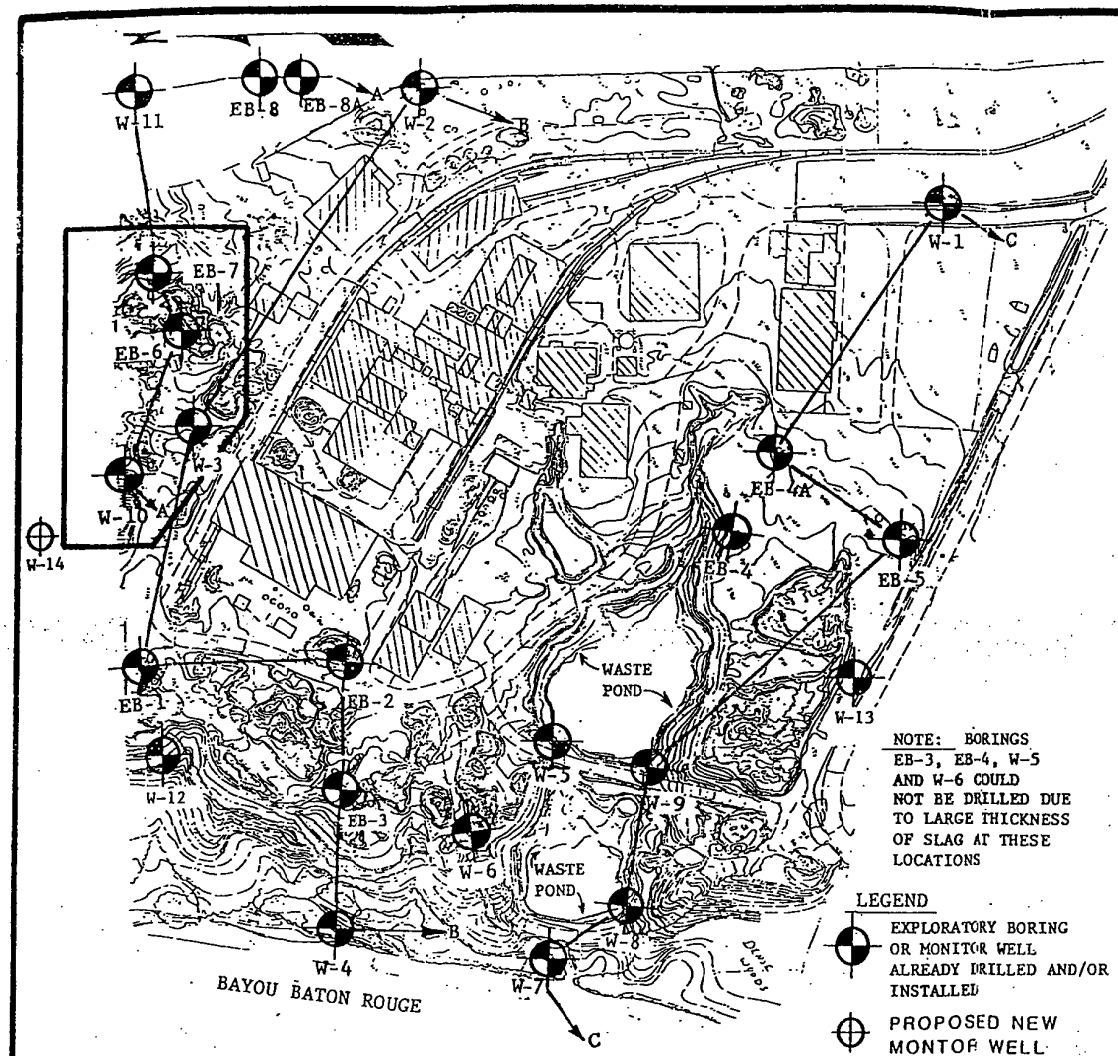


PLATE 16. CONFINING BED THICKNESS BELOW THE "400-FOOT" AQUIFER IN EAST BATON ROUGE PARISH AND SURROUNDING PARISHES, LOUISIANA.

DEPARTMENT OF INTERIOR
USGS
EXERPTS FROM
WATER TECHNICAL REPORT NO. 48



NOTE: BORINGS EB-3, EB-4, W-5 AND W-6 COULD NOT BE DRILLED DUE TO LARGE THICKNESS OF SLAG AT THESE LOCATIONS

LEGEND

EXPLORATORY BORING OR MONITOR WELL ALREADY DRILLED AND/OR INSTALLED

PROPOSED NEW MONTOR WELL

SITE PLAN AND BORING LOCATIONS

(SCALE-FEET)

0 80 160

VICINITY MAP

APPROX. SCALE: 1"=1 MILE

EXISTING LEAD PRODUCTION PLANT
BATON ROUGE, LOUISIANA

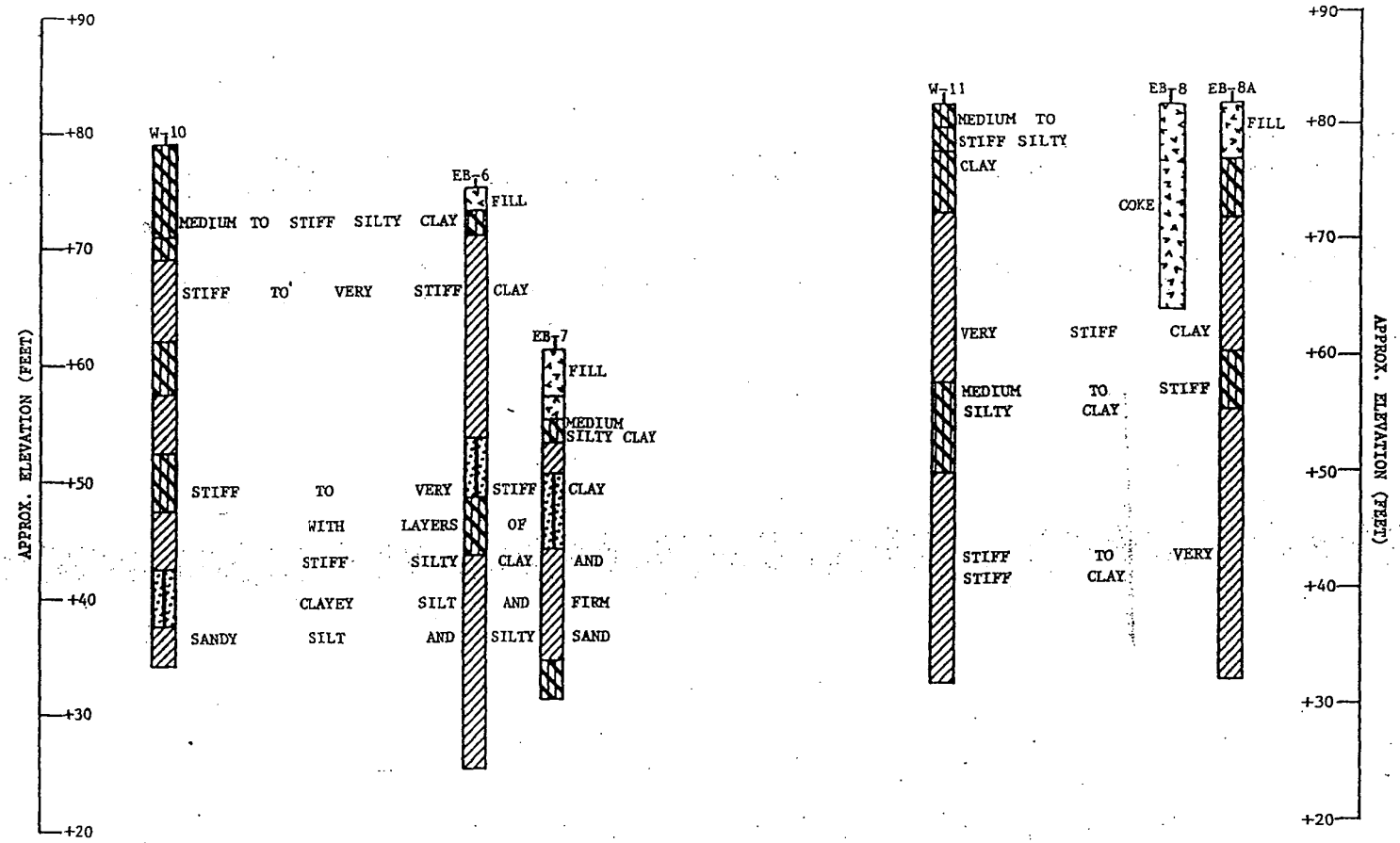
WOODWARD-CLYDE CONSULTANTS
CONSULTING ENGINEERS
BATON ROUGE, LOUISIANA

SCHUYLKILL METALS
BATON ROUGE, LOUISIANA

MADE BY: A.L. DATE: 11/14/85 FILE NO.
CHECKED BY: CD DATE: 11/15/85

SITE PLAN AND BORING LOCATIONS

FIGURE J-2



NOTE:

GROUND SURFACE ELEVATIONS FOR BOREHOLES WERE ESTIMATED FROM TOPOGRAPHIC SURVEY MAP FURNISHED BY SCHUYLKILL METALS REF. DRAWING 6.4.3.B-12 FOR CROSS SECTION LOCATION

GENERALIZED SUBSURFACE SOIL PROFILE A-A

APPROX. HORIZONTAL SCALE: 1"=100

EXISTING LEAD PRODUCTION PLANT
BATON ROUGE, LOUISIANA

WOODWARD-CLYDE CONSULTANTS
CONSULTING ENGINEERS
BATON ROUGE, LOUISIANA

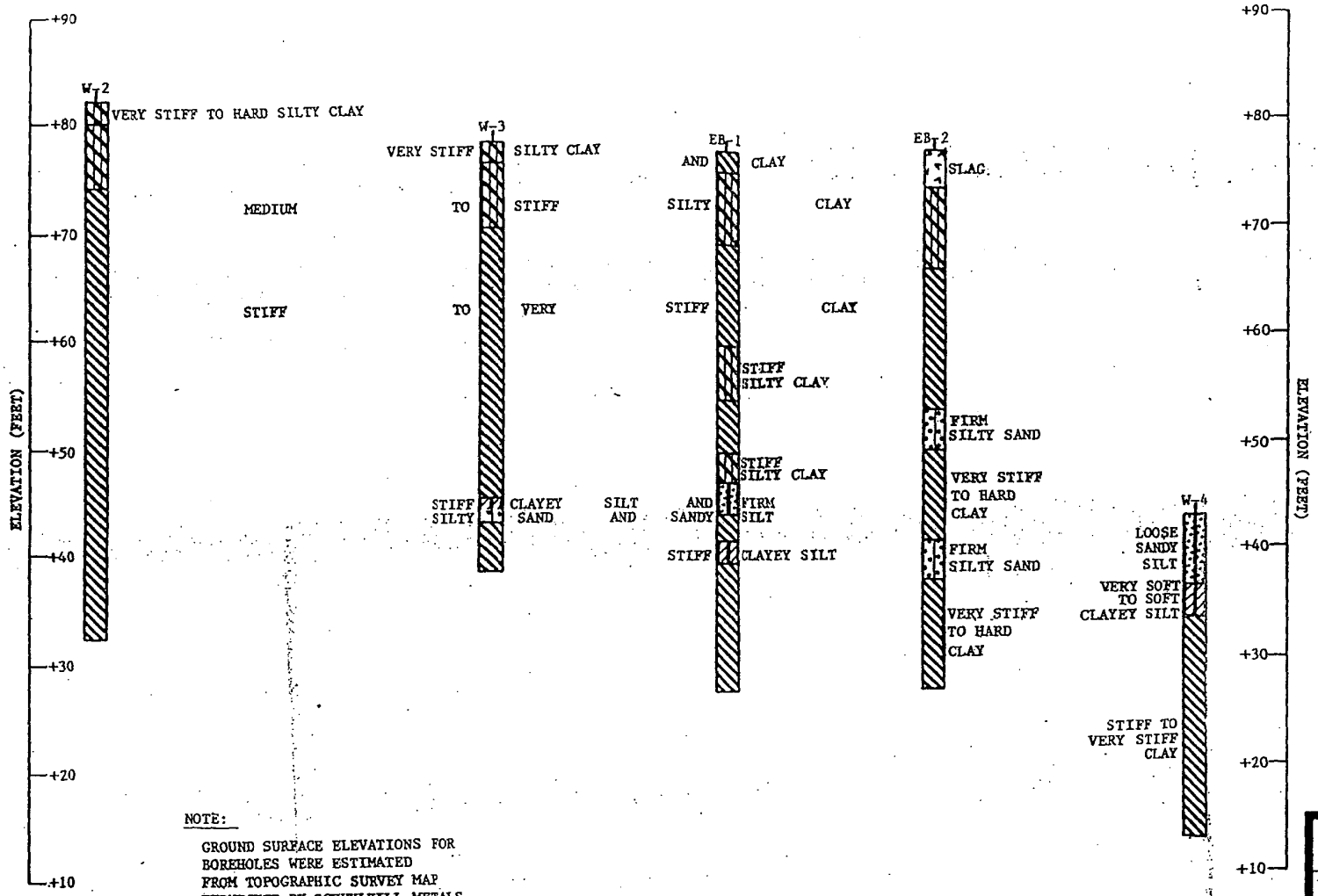
SCHUYLKILL METALS
BATON ROUGE, LOUISIANA

MADE BY: A. L. DATE: 11/14/85 FILE NO.
CHECKED BY: CB DATE: 11/15/85

SUBSURFACE SOIL PROFILE A-A

FIGURE

FIGURE J-3



NOTE:

GROUND SURFACE ELEVATIONS FOR BOREHOLES WERE ESTIMATED FROM TOPOGRAPHIC SURVEY MAP FURNISHED BY SCHUYLKILL METALS REF. DRAWING 6.4.3.B-12 FOR CROSS SECTION LOCATION

GENERALIZED SUBSURFACE SOIL PROFILE B-B

APPROX. HORIZONTAL SCALE: 1"=150'

EXISTING LEAD PRODUCTION PLANT
BATON ROUGE, LOUISIANA

WOODWARD-CLYDE CONSULTANTS
CONSULTING ENGINEERS
BATON ROUGE, LOUISIANA

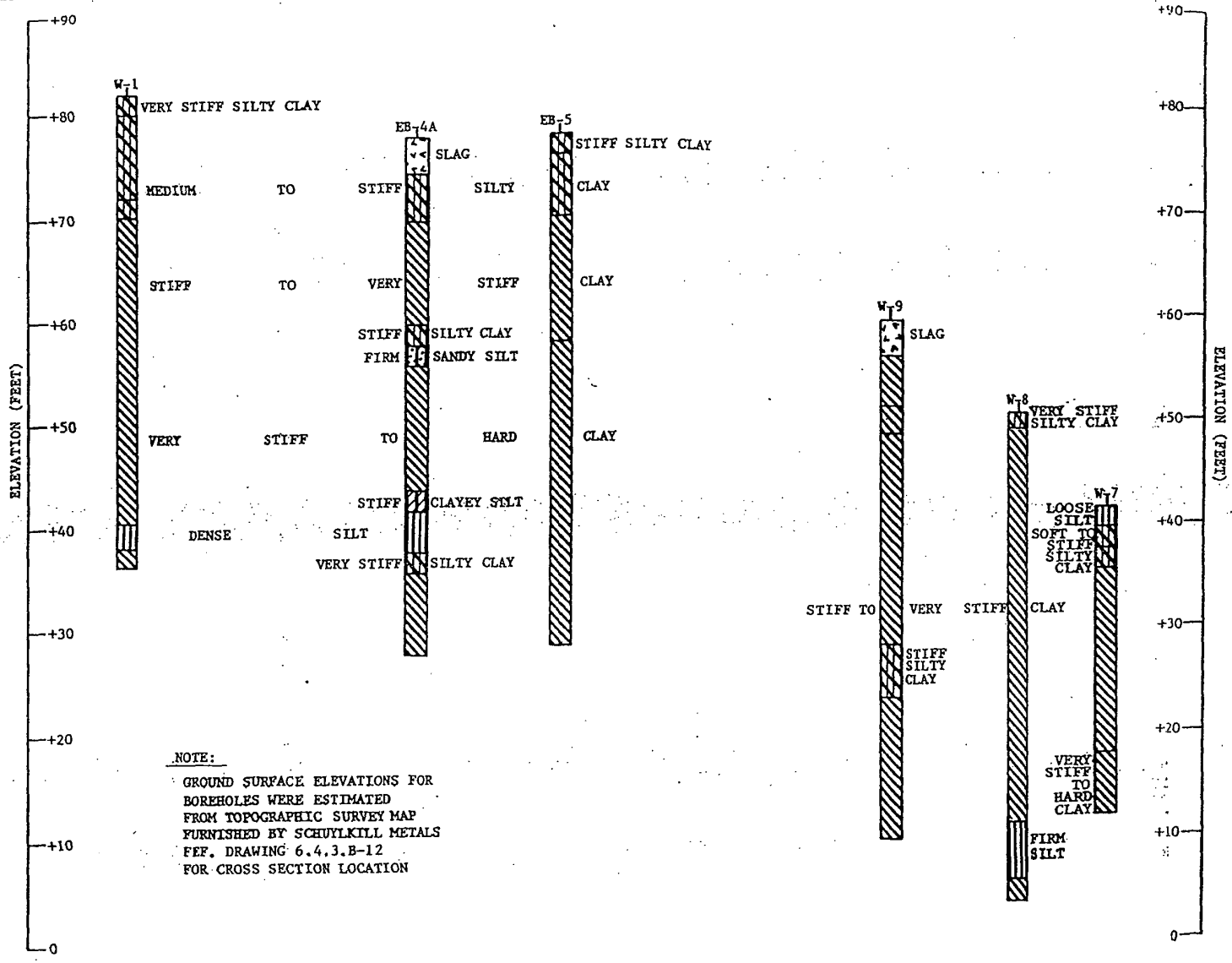
SCHUYLKILL METALS
BATON ROUGE, LOUISIANA

MADE BY: A.L. DATE: 11/14/85 FILE NO.
CHECKED BY: CD DATE: 11/15/85

SUBSURFACE SOIL PROFILE B-B

FIGURE

FIGURE J-4



NOTE:

GROUND SURFACE ELEVATIONS FOR BOREHOLES WERE ESTIMATED FROM TOPOGRAPHIC SURVEY MAP FURNISHED BY SCHUYLKILL METALS FEF. DRAWING 6.4.3.B-12 FOR CROSS SECTION LOCATION

GENERALIZED SUBSURFACE SOIL PROFILE C-C

APPROX. HORIZONTAL SCALE: 1"=150'

EXISTING LEAD PRODUCTION PLANT
BATON ROUGE, LOUISIANA

WOODWARD-CLYDE CONSULTANTS
CONSULTING ENGINEERS
BATON ROUGE, LOUISIANA

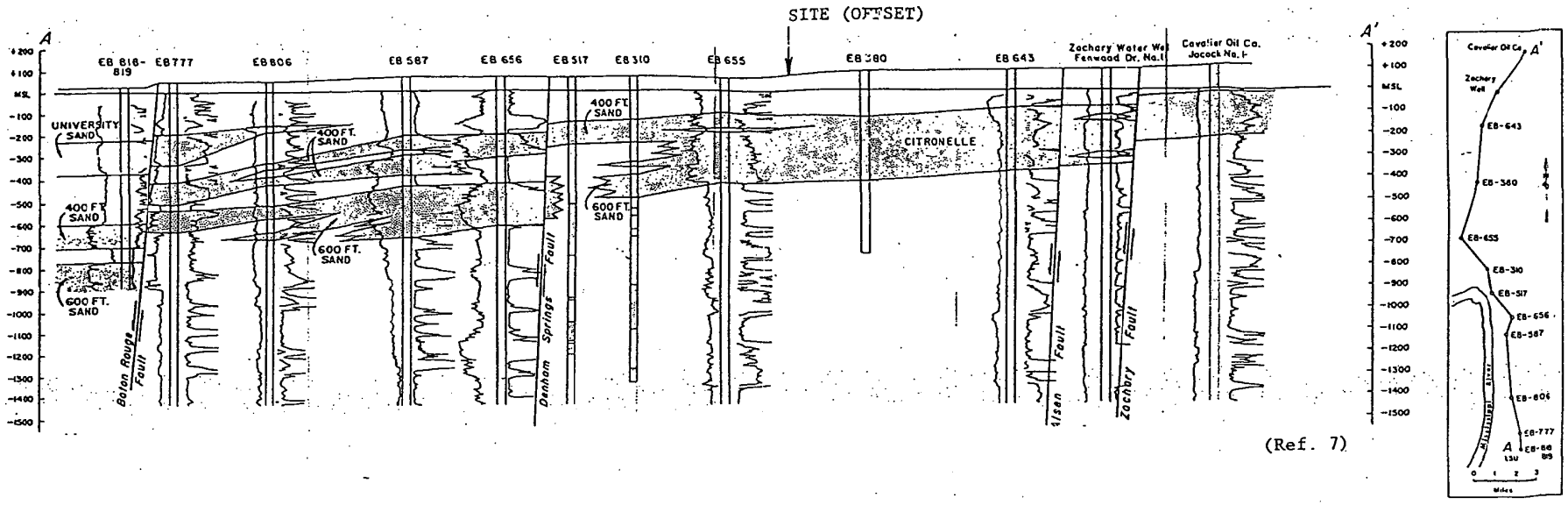
SCHUYLKILL METALS
BATON ROUGE, LOUISIANA

MADE BY: A.L.	DATE: 11/14/85	FILE NO.	
CHECKED BY: CD	DATE: 11/15/85		

SUBSURFACE SOIL PROFILE C-C

FIGURE

FIGURE J-5



(Ref. 7)

NOTE: SITE IS WEST OF CROSS SECTION

SUBSURFACE SOIL CONDITIONS BASED ON NEARBY WATER WELL LOGS

EXISTING LEAD PRODUCTION PLANT
BATON ROUGE, LOUISIANA

WOODWARD-CLYDE CONSULTANTS
CONSULTING ENGINEERS
BATON ROUGE, LOUISIANA

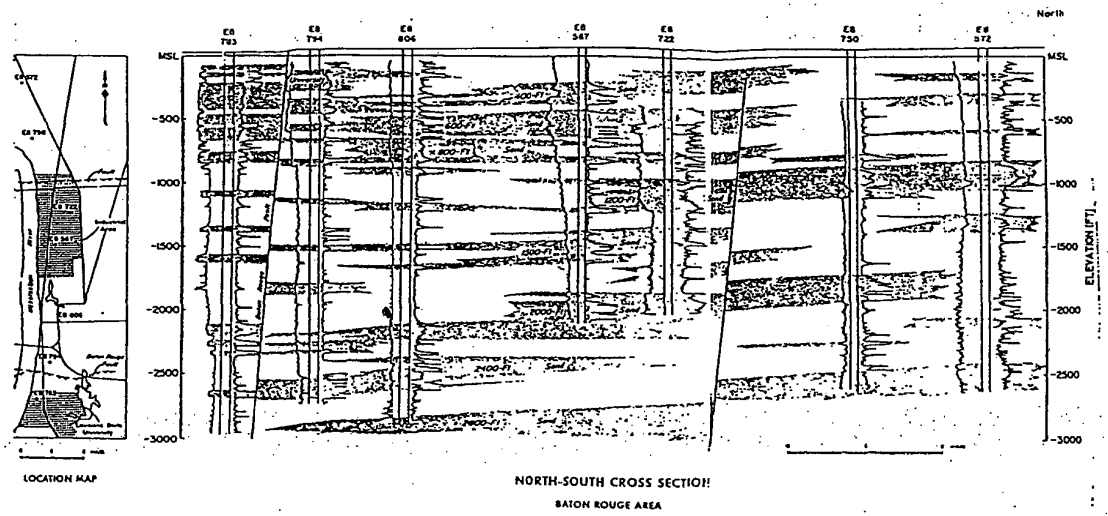
SCHUYLKILL METALS
BATON ROUGE, LOUISIANA

MADE BY: A.L. DATE: 11/14/85 FILE NO.
CHECKED BY: DATE:

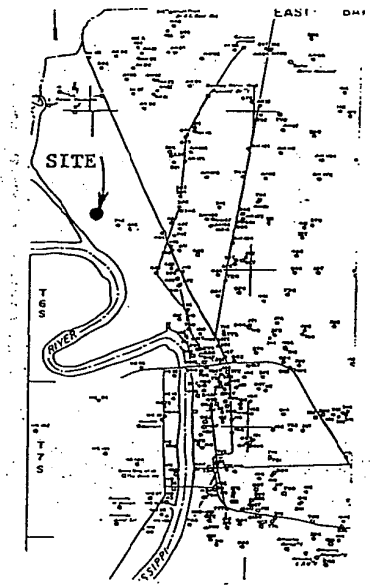
SUBSURFACE SOIL CONDITIONS BASED ON NEARBY WATER WELL LOGS

FIGURE

FIGURE J-6



(Ref. 4)



PERMEABILITY DATA IN SANDS

SAND	PERMEABILITY (gpd/Ft^2)
1200-FT	560
1500-FT	1060
2000-FT	1250

SUBSURFACE SOIL CONDITIONS BASED ON WATER WELL LOGS IN CENTRAL BATON ROUGE

EXISTING LEAD PRODUCTION PLANT
BATON ROUGE, LOUISIANA

WOODWARD-CLYDE CONSULTANTS
CONSULTING ENGINEERS
BATON ROUGE, LOUISIANA

SCHUYLKILL METALS
BATON ROUGE, LOUISIANA

MADE BY: A.L. DATE: 11/14/85 FILE NO.
CHECKED BY: CP DATE: 11/15/85

SUBSURFACE SOIL CONDITIONS BASED ON WATER WELL LOGS IN CENTRAL BATON ROUGE

FIGURE

FIGURE J-7

RESPONSE
ATTACHMENT A10

APPENDIX 10

SOIL BORING LOGS, SITE GEOLOGY REPORT AND CROSS SECTIONS

GEOTECHNICAL CERTIFICATION STATEMENT

As part of the preparation of this Hazardous Waste Permit Renewal Application I have performed a review of historic geotechnical information for the Exide Baton Rouge Smelter, including the Site Geology report by Woodward-Clyde Consultants contained in the original Hazardous Waste Permit Application and previous Hazardous Waste Permit Renewal Applications. I have also reviewed the results of geotechnical and environmental borings performed at the Site , as well as published geologic information for the area . Based on this information, sufficient information is known about subsurface conditions at the Site to make the determination that the ground and subsurface conditions are capable of supporting plant operations.

10/17/05

Paul G. Stratman, P.E. No. 29150

F:\OFICEAGC\PROJECTS\Work\EXIDE\Baton Rouge, LA\Deficiency Responses\GEOTECHNICAL CERTIFICATION STATEMENT.doc

EXERPTS FROM
WOODWARD CLYDE CONSULTANTS
RCRA PART II PERMIT APPLICATION
MARCH 1993

RCRA Part II Permit
Application
March 1993

APPENDIX I

SOIL BORING LOGS

LOG OF BORING

PROJECT: Existing Lead Production Plant, Baton Rouge, Louisiana

BORING: EB-1
FILE: 80C5189
DATE: 9/24&25/80
TECHNICIAN: RM

CLIENT: Schuylkill Metals Corporation, Baton Rouge, Louisiana

Approx. Ground Surface Elev. = 77.0'

DRY AUGERED 0 to 16' WASH BORED 16' to Bottom

No water entered the borehole during dry augering

DEPTH (FEET)	STANDARD PENETRATION (BLOWS/FOOT) or PKT. PEN. (TSF)	COMPRESSIVE STRENGTH (TSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	L.L. (%)	P.I. (%)	DESCRIPTION OF STRATUM
0	Bag						Very stiff tan and brown CLAY wit streaks and pockets (CH)
	2.5		23				
	2.0						Stiff brown and light gray Silty ferrous ndoules (CL)
5	2.0	1.03	25	96	32	12	
	2.0						
	4.0						Very stiff tan and light gray CLAY with silt streaks and pockets and ferrous nodules (CL-CH)
10	4.5						
	4.0	3.06	22	104	46	30	
15	4.0						
	4.0						
	3.0						Stiff light gray and brown Silty CLAY with trace sand and clayey silt layers (CL)
20	3.0		26		30	8	
	3.0						
	4.0						Very stiff tan, light gray and reddish-brown CLAY with ferrous nodules (CH)
25	4.0		20				
	4.0						
	2.5		24		40	26	Stiff tan and light gray Silty CLAY with silty sand streaks and pockets (CL)
30							
							Firm tan Silty SAND with clay pockets (ML)
	3.0						Very stiff tan and brown CLAY with trace silt streaks and ferrous nodules (CH)
35	4.5+		22				
	2.0						Stiff tan and light gray Clayey SILT with clay pockets and trace sand (CL-ML)
	4.5+		30				Very stiff brown, tan and light gray CLAY with trace silt streaks and ferrous nodules (CH)
40	4.5+						
	4.5+		22				---with trace sand pockets
45	4.5+						
	4.5+						
	4.5+						
50							

WOODWARD-CLYDE CONSULTANTS

Bottom of boring at 50'

NOTE: Borehole proved full depth after

LOG OF BORING

PROJECT: Existing Lead Production Plant, Baton Rouge, Louisiana

BORING: EB-2
FILE: 80C5189
DATE: 9/25/80
TECHNICIAN: JRD

CLIENT: Schuylkill Metals Corporation, Baton Rouge, Louisiana

Approx. Ground Surface Elev. = 77.0'

DRY AUGERED 0 to 1' WASH BORED 1' to Bottom

No water entered the borehole during dry augering

Depth (feet)	Sample	Standard Penetration (Blows/Foot) or Pkt. Pen. (TSF)	Compressive Strength (TSF)	Moisture Content (%)	Dry Density (PCF)	L.L. (%)	P.I. (%)	Description of Stratum
0								SLAG
5		1.5						Medium to stiff tan and light gray Silty CLAY (CL)
		1.7	0.85	26	93	30	15	
		2.0						
10		2.2	1.26	21	103	40	25	
		3.0						Stiff to very stiff tan and light gray CLAY with silt pockets and ferrous nodules (CH)
15		3.7						
		4.5+						
		2.0	2.07	23	101	41	19	---with large silt and sand streaks and pockets from 18' to 22'
20		2.5						
		4.0						
25				16	104			Firm tan Silty SAND with clay pockets and layers (ML) ---wet at 26½'
		18b/f						
		4.5+						Very stiff to hard tan and light gray CLAY with trace silt streaks (CH)
30		4.0						
		4.5+		24				
35		4.5+						
				25	96			Firm tan Silty SAND with clay and sandy silt layers (ML)
		16b/f						
40		4.5+		29		60	37	Very stiff to hard tan and light gray CLAY with trace silt streaks (slickensided) (CH)
		4.5+						
45		4.5+						
		4.5+						
		4.5+						---with sand pockets
50								Bottom of boring at 50'

WOODWARD-CLYDE CONSULTANTS

NOTE: Borehole grouted full depth after

LOG OF BORING

PROJECT: Existing Lead Production Plant
Baton Rouge, Louisiana

BORING: EB-3
FILE: 80C5189
DATE:
TECHNICIAN:

CLIENT: Schuylkill Metals Corporation
Baton Rouge, Louisiana

DRY AUGERED | WASH BORED
INITIAL WATER LEVEL

SOIL SYMBOL	DEPTH (FEET)	SAMPLE	STANDARD PENETRATION (BLOWS/FOOT) or PKT. PEN. (TSF)	COMPRESSIVE STRENGTH (TSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	L.L. (%)	P.I. (%)	DESCRIPTION OF STRATUM
									This boring could not be drilled due to large thickness of slag (as much as about 20')

WOODWARD-CLYDE CONSULTANTS

LOG OF BORING

PROJECT Existing Lead Production Plant
Baton Rouge, Louisiana

BORING EB-4
FILE 80C5189
DATE 9/24/80
TECHNICIAN JRD

CLIENT Schuylkill Metals Corporation
Baton Rouge, Louisiana

DEPTH (FEET)	SAMPLE	STANDARD PENETRATION (BLOWS/FOOT) or PKT. PEN. (TSF)	COMPRESSIVE STRENGTH (TSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	L.L. (%)	P.I. (%)	DESCRIPTION OF STRATUM
								NOTE: Original location of EB-4 abandoned after encountering about 6' of slag. Hole moved 125' to the southeast. Hole grouted full depth after drilling.

WOODWARD-CLYDE CONSULTANTS

LOG OF BORING

PROJECT: Existing Lead Production Plant, Baton Rouge, Louisiana

BORING: EB-4A
FILE: 80C5189
DATE: 9/24/80
TECHNICIAN: JRD

CLIENT: Schuylkill Metals Corporation, Baton Rouge, Louisiana

Approx. Ground Surface Elev. = 77.5'

DRY AUGERED 0 to 2' WASH BORED 2' to Bottom

No water entered the borehole during dry augering

DEPTH (FEET)	SAMPLE	STANDARD PENETRATION (BLOWS/FOOT) or PKT. PEN. (TSF)	COMPRESSIVE STRENGTH (TSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	L.L. (%)	P.I. (%)	DESCRIPTION OF STRATUM
0		Bag						SLAG
		Bag						
5		2.2						Stiff tan and light gray Silty CLAY with ferrous nodules (CL)
		2.0	1.11	20	102	33	11	
10		3.7						Stiff to very stiff tan, light gray and reddish-brown CLAY with sand and silt streaks and pockets (CL-CH)
		4.5+		19		44	32	
		4.2						
15		4.5+						
		4.5+						
20		3.0		24				Stiff tan and light gray Silty CLAY with silt and sand streaks and pockets (CL)
		2.0		23			NP	Firm tan and light gray Sandy SILT with silt pockets and clay layer (ML)
25		2.7						Very stiff to hard tan, light gray and reddish-brown CLAY with silt streaks and pockets (slickensided) (CH)
		4.0						
		4.5+		32				
30		4.5+						
		4.5+						
		4.5+		20				---with large calcareous nodules
35		4.5+		21				Stiff tan and brown Clayey SILT with sand and clay pockets (CL-ML)
				28	99			Dense tan SILT with clay pockets and trace sand (ML)
		39b/f						---with very stiff clay layers (CH)
40		2.7		18		34	20	Very stiff light gray Silty CLAY with silt streaks and pockets (CL)
		3.7						Very stiff to hard tan and light gray CLAY with trace sand (CH)
45		4.2						
		3.7						---with sand streaks and pockets below 46'
		3.5						
50								

WOODWARD-CLYDE CONSULTANTS — Bottom of boring at 50'

LOG OF BORING

PROJECT: Existing Lead Production Plant, Baton Rouge, Louisiana

CLIENT: Schuylkill Metals Corporation, Baton Rouge, Louisiana

BORING: EB-5
FILE: 80C5189
DATE: 9/23/80
TECHNICIAN: JRD/RM

Approx. Ground Surface Elev. = 78.1'

DRY AUGERED 0 to 12' WASH BORED 12' to Bottom

Water entered the borehole at 10' initially; water at 10' after 15 min.

Depth (feet)	Standard Penetration (Blows/Foot) or Pkt. Pen. (TSF)	Compressive Strength (TSF)	Moisture Content (%)	Dry Density (PCF)	L.L. (%)	P.I. (%)	Description of Stratum
0	Bag						Stiff to very stiff tan Silty CLAY (FILL)
	4.0						(CL)
	1.5						Medium to stiff tan and light gray Clayey SILT with ferrous nodules (CL-ML)
5	1.0	0.94	27	94	27	5	
	1.2						
	2.2						Stiff to very stiff tan and light gray CLAY with trace silt streaks and pockets (CH)
10	2.5						
	3.0						
15	3.2	2.00	31	94	63	45	
	3.5						
	3.5						
20	4.5						Very stiff to hard tan, light gray and brown CLAY with silt streaks and pockets and ferrous nodules (CH)
	4.5+		23				
25	4.5+						
	4.5+						
	4.5		26				---slickensided
30	4.5						
	4.5						---with trace organic pockets
35	4.0		33				---with silt layer (ML)
	4.5						
	4.5						
40	4.2		31				
	3.7						
45	4.5+						
	4.5+						---slickensided
	4.5+						
50							Bottom of boring at 50'

WOODWARD-CLYDE CONSULTANTS

NOTE: Hole grouted full depth after drilling

LOG OF BORING

PROJECT: Existing Lead Production Plant, Baton Rouge, Louisiana

BORING: EB-6
FILE: 80C5189
DATE: 1/12/81
TECHNICIAN: TML

CLIENT: Schuylkill Metals Corporation, Baton Rouge, Louisiana

Very Approx. Ground Surface Elev. = 75'

DRY AUGERED 0 to 16' — WASH BORED 16' to Bottom

No water entered the borehole during dry augering

DEPTH (FEET)	STANDARD PENETRATION (BLOWS/FOOT) or PKT. PEN. (TSF)	COMPRESSIVE STRENGTH (TSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	L.L. (%)	P.I. (%)	DESCRIPTION OF STRATUM
0	1.0						Soft to medium tan and light gray Silty CLAY (FILL) (CL)
	2.5		22				Medium tan and light gray Silty CLAY with clay pockets and ferrous nodules (CL)
5	4.2		21				Stiff to very stiff tan and light gray CLAY with silt streaks and pockets and ferrous nodules (CH)
	4.2		19				
	4.5						
10	4.5						
15	3.5		23		50	30	---with calcareous nodules
	3.2						
20							
		*	23				Firm tan and brown Sandy SILT with clay pockets and layers (ML)
25							
			25				Stiff brown and tan Silty CLAY with clay pockets, clayey silt layers and trace ferrous nodules (CL)
30							
	4.0						Stiff to very stiff light gray and tan CLAY (CH)
35							
	3.5		24				---with silty clay pockets and layers
40							
	4.2						---with trace silt lenses
45							
	4.0						---with silt lenses and pockets
50							Bottom of boring at 50'

WOODWARD-CLYDE CONSULTANTS

LOG OF BORING

PROJECT: Existing Lead Production Plant
Baton Rouge, Louisiana

BORING: EB-7
FILE: 80C5189
DATE: 1/23 & 24/81
TECHNICIAN: KTH

CLIENT: Schuylkill Metals Corporation
Baton Rouge, Louisiana

Very Approx. Ground Suface Elev. = 61'

Full Depth
Water entered the borehole at 6' initially (water had acid odor)

SOIL SYMBOL	DEPTH (FEET)	SAMPLE	STANDARD PENETRATION (BLOWS/FOOT) or PET. PEN. (TSF)	DRY AUGERED	COMPRESSIVE STRENGTH (TSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	L.L. (%)	P.I. (%)	DESCRIPTION OF STRATUM
	0		1.2							Medium tan Silty CLAY with plastic and rubble (FILL)
			1.9							---with slag
	5		--			19				Rocks, slag, plastic, clay, silt and miscellaneous FILL
						31				Medium tan and light gray Silty CLAY with ferrous nodules (CL)
			9b/f			29		49	30	Stiff tan and light gray CLAY with large silt streaks and pockets (CH)
	10		16b/f			30				Firm tan and brown Sandy SILT with clay lenses and pockets (ML)
	15		1.7		*	27				
			3.4		2.50	21	108	46	30	Very stiff light gray and tan CLAY with silt and sand streaks and pockets (CH)
	20									
			4.2							
	25									
			4.5+			28		56	31	Very stiff tan and light gray Silty CLAY with sand and clay pockets (CL-CH)
	30									Bottom of boring at 30'

* 67.8% passing the No. 200 sieve

Notes: Because of access problems borehole was drilled with marsh buggy-mounted equipment. Upper 4' was pushed over site for access. Borehole grouted full depth after drilling.

LOG OF BORING

PROJECT: Existing Lead Production Plant
Baton Rouge, Louisiana

BORING: EB-8
FILE: 80C5189
DATE: 1/23/81
TECHNICIAN: KTH

CLIENT: Schuylkill Metals Corporation
Baton Rouge, Louisiana

Very Approx. Ground Surface Elev: ≈ 82'

DRY AUGERED Full Depth
No water entered the borehole during dry augering

SOIL SYMBOL	DEPTH (FEET)	SAMPLE	STANDARD PENETRATION (BLOWS/FOOT) or PET. PEN. (TSF)	COMPRESSIVE STRENGTH (TSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	L.L. (%)	P.I. (%)	DESCRIPTION OF STRATUM
	0								COKE (FILL)
	5								
	10								
	15								---becoming natural soils at 18'
	20								Note: Borehole augered 18' to determine thickness of coke. Borehole grouted full depth after drilling. Borehole moved 50' south, out of coke area, and drilled as EB-8A.

WOODWARD-CLYDE CONSULTANTS

LOG OF BORING

PROJECT: Existing Lead Production Plant, Baton Rouge, Louisiana

BORING: ER-8A
FILE: 80C5189
DATE: 1/23/81
TECHNICIAN: KTH

CLIENT: Schuylkill Metals Corporation, Baton Rouge, Louisiana

Very Approx. Ground Surface Elev. ≈82'

DRY AUGERED: 0 to 6'
WASH BORED: 6'-to-Bottom
No water entered the borehole during dry augering

Depth (feet)	Standard Penetration (Blows/Foot) or Pkt. Pen. (TSF)	Compressive Strength (TSF)	Moisture Content (%)	Dry Density (PCF)	L.L. (%)	P.I. (%)	Description of Stratum
0	2.5						Stiff tan and brown Silty CLAY with coke and miscellaneous fill (FILL)
	2.0		22				
5	1.4	0.68	28	89			Medium tan and brown Silty CLAY with ferrous nodules (CL)
	1.6		25		39	18	
	1.7						
10	3.1		21				Very stiff tan, light gray and reddish-brown CLAY with silt streaks and pockets and ferrous nodules (CH)
15	3.4						
	3.3		22				---with silty sand streaks and pockets
20							
	1.9		26		36	10	Medium tan and light gray Silty CLAY with large sandy silt layer (CL)
25							
	3.5		25		52	35	Very stiff tan and light gray CLAY with trace silt and streaks and pockets (CH) (slickensided)
30							
	3.0						
35							
	4.2						---jointed
40							
	3.5						
45							
	4.5+						
50							

WOODWARD-CLYDE CONSULTANTS — Bottom of boring at 50'

Note: Lost circulation at 35'. Moved 5' and

LOG OF BORING

PROJECT: Existing Lead Production Plant, Baton Rouge, Louisiana

BORING: W-1
FILE: 80C5189
DATE: 9/25/80
TECHNICIAN: JRD

CLIENT: Schuylkill Metals Corporation, Baton Rouge, Louisiana

Approx. Ground Surface Elev. = 82.1'

DRY AUGERED 0 to 16' WASH BORED 16' to Bottom

No water entered the borehole during dry augering

Depth (feet)	Standard Penetration (Blows/Foot) or Pkt. Pen. (TSF)	Compressive Strength (TSF)	Moisture Content (%)	Dry Density (PCF)	L.L. (%)	P.I. (%)	Description of Stratum
0	4.5+						Very stiff tan Silty CLAY with grass roots (CL)
	2.0						Medium to stiff tan and brown Silty CLAY (CL)
5	2.5						---with roots at 2' to 4'
	0.7	0.56	27	94	30	5	---clayey silt (ML)
	1.2						
10	2.0	1.53	21	106	38	22	Stiff tan and light gray Silty CLAY with ferrous nodules (CL)
	3.2						Very stiff to hard tan and light gray CLAY with silt streaks and pockets, trace sand and ferrous nodules (CH)
15	4.2						
	4.5+		28				
	4.5+						---with calcareous nodules
20	4.5+						
	2.2		20				---with layer of stiff silty clay with clay pockets (CL)
25	4.5+						
	4.5+						
	4.2						
30	4.2		15		47	32	---slickensided (CL-CH)
	4.5+						---with calcareous nodules
35	4.5+						
	4.5+						
	4.5+		25				
40	3.7						Dense tan SILT with trace sand and clay pockets (ML)
	34b/f						
45	3.0		21				Very stiff light gray and tan CLAY with silt streaks and pockets (CH)
							Bottom of boring at 46'
50							NOTE: After drilling of borehole, an observation well was installed with a 10' well screen at bottom.

WOODWARD-CLYDE CONSULTANTS

LOG OF BORING

PROJECT: Existing Lead Production Plant, Baton Rouge, Louisiana

CLIENT: Schuylkill Metals Corporation, Baton Rouge, Louisiana

BORING W-2
FILE 80C5189
DATE 9/26/80
TECHNICIAN JRD

Approx. Ground Surface Elev. = 82.2'

DRY AUGERED 0 to 10' WASH BORED 10' to Bottom

Water entered the borehole at 8' initially; water at 8' after 10 min.

DEPTH (FEET)	STANDARD PENETRATION (BLOWS/FOOT) or PKT. PEN. (TSF)	COMPRESSIVE STRENGTH (TSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	L.L. (%)	P.I. (%)	DESCRIPTION OF STRATUM
0	4.5+						Very stiff to hard tan and brown Silty CLAY (CL)
	2.5		20				Medium to stiff tan and brown Silty CLAY with ferrous nodules (CL)
5	1.7						
	0.7	0.88	28	94	36	17	
	2.0						Stiff to very stiff tan and light gray CLAY with silt streaks and pockets and ferrous nodules (CH)
10	2.7	2.31	19	108			
15	3.2						
20	3.5						
	3.5		21		17	NP	---with layer of stiff clayey silt with sand (ML)
25	4.5+						
30	4.5+						
35	4.2		27				---with layers of stiff silty clay (CL) and sand streaks and pockets
40	3.2						---slickensided
45	4.5+		26				
50							

WOODWARD-CLYDE CONSULTANTS Bottom of boring at 50'

LOG OF BORING

PROJECT: Existing Lead Production Plant, Baton Rouge, Louisiana

CLIENT: Schuylkill Metals Corporation, Baton Rouge, Louisiana

BORING W-3
FILE 80C5189
DATE 9/27/80
TECHNICIAN JRD

Approx. Ground Surface Elev. = 77.9'

DRY AUGERED 0 to 20' WASH BORED 20' to Bottom

No water entered the borehole during dry augering

SOIL SYMBOL	DEPTH (FEET)	SAMPLE	STANDARD PENETRATION (BLOWS/FOOT) or PKT. PEN. (TSF)	COMPRESSIVE STRENGTH (TSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	L.L. (%)	P.I. (%)	DESCRIPTION OF STRATUM
	0		Bag						Very stiff tan Silty CLAY with rubble (CL)
			1.5						Medium to stiff tan and light gray Silty CLAY with trace ferrous nodules (CL)
	5		1.5	1.15	24	97	33	11	
			1.7						
			3.0						Stiff to very stiff tan and light gray CLAY with silt streaks and pockets and ferrous nodules (CH)
	10		3.2		21		49	33	
	15		4.0						
	20		4.2		22				
	25		3.0						
	30		4.5+		25				
	35				27				Layers of stiff tan Clayey SILT and firm Sandy SILT- Silty SAND (CL-ML, ML)
			4.5+		30				Very stiff tan and light gray CLAY with silt streaks and pockets (CH)
	40								Bottom of boring at 40'

NOTE: After drilling of borehole, an observation well was installed with a 10' well screen at bottom.

WOODWARD-CLYDE CONSULTANTS

LOG OF BORING

PROJECT: Existing Lead Production Plant, Baton Rouge, Louisiana

CLIENT: Schuylkill Metals Corporation, Baton Rouge, Louisiana

BORING W-4
FILE 80C5189
DATE 10/10/80
TECHNICIAN RM

Approx. Ground Surface Elev. = 42.9'

DRY AUGERED 0 to 10'
WASH BORED 10' to Bottom
Water entered the borehole at 5' during dry augering

Depth (feet)	Sample	Standard Penetration (Blows/Foot) or Pkt. Pen. (TSF)	Compressive Strength (TSF)	Moisture Content (%)	Dry Density (PCF)	L.L. (%)	P.I. (%)	Description of Stratum
0		Dist.		5				Very loose tan Sandy SILT (ML)
		2b/f						
5		Bag						---with clay streaks and pockets
		Bag		32		28	7	Very soft to soft gray, brown and tan Clayey SILT with trace organics and sand pockets (CL-ML)
		Bag						
10								Stiff to very stiff tan and light gray CLAY with silt streaks and pockets with ferrous nodules (CH)
		3.0		25		50	32	
15								
		2.5						
20								
		4.0		26				---with calcareous nodules
25								
		4.5						
30								Bottom of boring at 30'

NOTE: After drilling of borehole, an observation well was installed with a 10' well screen at bottom.

WOODWARD-CLYDE CONSULTANTS

LOG OF BORING

PROJECT: Existing Lead Production Plant
Baton Rouge, Louisiana

CLIENT: Schuylkill Metals Corporation
Baton Rouge, Louisiana

BORING: W-5
FILE: 80C5189
DATE:
TECHNICIAN:

DRY AUGERED
WASH BORED
INITIAL WATER LEVEL

SOIL SYMBOL	DEPTH (FEET)	SAMPLE	STANDARD PENETRATION (BLOWS/FOOT) or PET. PEN. (TSF)	COMPRESSIVE STRENGTH (TSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	L.L. (%)	P.I. (%)	DESCRIPTION OF STRATUM
									Two false starts at 3' each in slag. Hole abandoned due to large thickness of slag.

WOODWARD-CLYDE CONSULTANTS

LOG OF BORING

PROJECT: Existing Lead Production Plant
Baton Rouge, Louisiana

CLIENT: Schuylkill Metals Corporation
Baton Rouge, Louisiana

BORING: W-6
FILE: 80C5189
DATE:
TECHNICIAN:

SOIL SYMBOL	DEPTH (FEET)	SAMPLE	STANDARD PENETRATION (BLOWS/FOOT) or PEN. PEN. (TSF)	DRY AUGERED / WASH BORED — INITIAL WATER LEVEL — COMPRESSIVE STRENGTH (TSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	L.L. (%)	P.I. (%)	DESCRIPTION OF STRATUM
									This boring could not be drilled due to large thickness of slag (as much as about 20')

LOG OF BORING

PROJECT: Existing Lead Production Plant, Baton Rouge, Louisiana

BORING W-7
FILE 80C5189
DATE 9/26/80
TECHNICIAN RM

CLIENT: Schuylkill Metals Corporation, Baton Rouge, Louisiana

Approx. Ground Surface Elev. = 41.6'

DRY AUGERED 0 to 16' — WASH BORED 16' to Bottom

Water entered the borehole at 14' initially; water at 12.5' after 5 min

SOIL SYMBOL	DEPTH (FEET)	SAMPLE	STANDARD PENETRATION (BLOWS/FOOT) or PKT. PEN. (TSF)	COMPRESSIVE STRENGTH (TSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	LL (%)	PI (%)	DESCRIPTION OF STRATUM
	0				10				Loose tan, brown and light gray SILT with clay pockets and trace organics (ML)
			2.5						Stiff tan and light gray Silty CLAY (CL)
	5		1.5	0.40	26	93	33	12	Soft to medium tan and light gray Silty CLAY (CL)
			2.0						Stiff to very stiff tan and light gray CLAY with ferrous nodules (CH)
			2.0		26				
	10		2.5						
			2.5		30		37	19	—with layer of stiff silty clay (CL)
	15		2.2		28				—stiff clayey silt with large clay and sandy silt streaks, pockets and layers (CL-ML)
			2.5						
			2.5						
	20		3.0		27		34	21	—with clayey silt streaks and pockets
			3.0						
	25		4.5+		26				Very stiff to hard tan and light gray CLAY with silt streaks and pockets and ferrous nodules (CH)
			4.5+						
			4.0						
	30								Bottom of boring at 30'

NOTE: After drilling of borehole, an observation well was installed with a 10' well screen at bottom.

WOODWARD-CLYDE CONSULTANTS

LOG OF BORING

PROJECT: Existing Lead Production Plant, Baton Rouge, Louisiana

CLIENT: Schuylkill Metals Corporation, Baton Rouge, Louisiana

BORING W-8
FILE 80C5189
DATE 9/27/80
TECHNICIAN RM

Approx. Ground Surface Elev. = 50.5'

DRY AUGERED 0 to 16'
No water entered the borehole during dry augering

WASH BORED 16' to Bottom

SOIL SYMBOL	DEPTH (FEET)	SAMPLE	STANDARD PENETRATION (BLOWS/FOOT) or PKT. PEN. (TSF)	COMPRESSIVE STRENGTH (TSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	L.L. (%)	P.I. (%)	DESCRIPTION OF STRATUM
	0		4.5+		18				Very stiff tan Silty CLAY with grass roots (CL)
			3.0						Stiff to very stiff light gray and tan CLAY with silt streaks and pockets and ferrous nodules (CH)
	5		2.5	1.60	30	91	67	45	
			2.0 / 2.5		19				
			3.2	2.30	28	95	65	41	---with calcareous nodules
	10		4.0						
	15		4.5+						
			4.0		26				---with stiff silty clay layer (CL)
	20								
			4.5		30		38	14	---with large silt streaks and pockets (CL)
	25								
			4.0		27				---with stiff silty clay layer (CL) and sandy silt layers (ML)
	30								
	35		4.5						
			4.0		20				Firm light gray SILT with large ferrous nodules and little sand (ML)
	40								
	45		4.2		33				Very stiff tan and light gray CLAY with ferrous nodules (CH)
	50								Bottom of boring at 47'

NOTE: After drilling of borehole, an observation well was installed with

WOODWARD-CLYDE CONSULTANTS

LOG OF BORING

PROJECT: Existing Lead Production Plant, Baton Rouge, Louisiana

BORING: W-9
FILE: 80C5189
DATE: 9/26/80
TECHNICIAN: RM

CLIENT: Schuylkill Metals Corporation, Baton Rouge, Louisiana

Approx. Ground Surface Elev. = 59.5'

DRY AUGERED 0 to 8' WASH BORED 8' to Bottom

No water entered the borehole during dry augering

DEPTH (FEET)	STANDARD PENETRATION (BLOWS/FOOT) or PKT. PEN. (TSF)	COMPRESSIVE STRENGTH (TSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	L.L. (%)	P.I. (%)	DESCRIPTION OF STRATUM
0							SLAG
5	1.5		25		49	31	Stiff tan and light gray CLAY (CL-CH)
10	2.0		24				Stiff to very stiff tan, light gray and greenish-gray CLAY with ferrous nodules (CH)
	2.0	1.48	25	97			Stiff tan and light gray CLAY with ferrous nodules (CH)
15	2.2						
20	2.5		23		57	30	---with large silt streaks and pockets
25	2.5						
30	4.0						
35	1.5		25		34	11	Stiff tan and light gray Silty CLAY with streaks, pockets and layers, clay pockets and calcareous nodules (CL)
40	3.0						Stiff to very stiff tan and light gray CLAY with silt pockets and layers and calcareous nodules (CH)
45	4.0		27				
50	3.2						

Bottom of boring at 50'

WOODWARD-CLYDE CONSULTANTS

LOG OF BORING

PROJECT: Existing Lead Production Plant, Baton Rouge, Louisiana

BORING: W-10
FILE: 80C5189
DATE: 1/12/81
TECHNICIAN: TML

CLIENT: Schuylkill Metals Corporation, Baton Rouge, Louisiana

Approx. Ground Surface Elev. = 79.0'

DRY AUGERED 0 to 16' WASH BORED 16' to Bottom

No water entered the borehole during dry augering.

DEPTH (FEET)	STANDARD PENETRATION (BLOWS/FOOT) or PKT. PEN. (TSF)	COMPRESSIVE STRENGTH (TSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	L.L. (%)	P.I. (%)	DESCRIPTION OF STRATUM
0	2.5						Medium brown and tan Silty CLAY with silt streaks and pockets and ferrous nodules (CL)
	2.5		28				
5	1.2	0.69	28	94	33	9	
	2.2		26				
	3.0		21				Stiff tan and light gray Silty CLAY (CL)
10	4.5						Very stiff tan and light gray CLAY with silt streaks and pockets (CH)
15	4.0		23				
20			28		31	9	Stiff light gray and tan Clayey SILT with sand and clay streaks and pockets (CL-ML)
25	4.5						Very stiff tan and light gray CLAY with trace silt and ferrous nodules (CH)
30	4.5		24				Stiff brown and light gray Silty CLAY with sand and silt streaks and pockets and clayey silt layers (CL)
35	3.7						Very stiff tan and light gray CLAY with trace silt (CH)
40			22				Firm tan and brown Silty SAND with clay streaks and pockets and clayey silt layers (ML)
45	4.5+						Very stiff tan and light gray CLAY (CH)

Note: Bottom of boring at 45'
After drilling of borehole an observation well was installed with a 10' well screen at bottom

WOODWARD-CLYDE CONSULTANTS

LOG OF BORING

PROJECT: Existing Lead Production Plant, Baton Rouge, Louisiana

BORING: W-11
FILE: 80C5189
DATE: 1/22/81
TECHNICIAN: KTH

CLIENT: Schuylkill Metals Corporation, Baton Rouge, Louisiana

Approx. Ground Surface Elev. = 82'

DRY AUGERED 0 to 4' — WASH BORED 4' to Bottom

No water entered the borehole during dry augering

Depth (feet)	Standard Penetration (Blows/Foot) or Pkt. Pen. (TSF)	Compressive Strength (TSF)	Moisture Content (%)	Dry Density (PCF)	L.L. (%)	P.I. (%)	Description of Stratum
0	4.5+						Stiff brown Silty CLAY (CL)
	1.3		28		47	23	Medium tan and brown Silty CLAY with ferrous nodules (CL)
5	3.2						Stiff tan, brown and light gray Silty CLAY with ferrous nodules and silt pockets (CL)
	2.7		25				
	2.0						
10							Very stiff tan and light gray CLAY with trace silt streaks and pockets and ferrous nodules (CH)
	4.0		18				
15	3.6		19		50	32	
	4.4						---jointed
20							
	2.5						
25							Stiff brown, tan and light gray Silty CLAY with silt streaks and pockets (CL)
	2.8		24		38	17	---with large sandy silt pockets and streaks and 6" silty sand layer
30							
	3.9		28				Stiff to very stiff tan and brown CLAY with trace silt pockets and ferrous nodules
35							
	2.7						
40							
	3.2						
45							
	4.0						---with large calcareous nodules
50							Bottom of boring at 50'

WOODWARD-CLYDE CONSULTANTS

PROJECT: Monitor Well Installation
Baton Rouge, Louisiana

FOR: Schuylkill Metals Corporation
Baton Rouge, Louisiana

BORING W-12
FILE 84-184
DATE 21 Dec. 1984
TECHNICIAN RCZ

Note: Soil strength determined by field methods

UNDISTURBED SAMPLE | STANDARD PENETRATION TEST | BORING DEPTH 37 Feet

DEPTH FEET	SAMPLES	
0		
5		Very soft tan silty clay with silt pockets and ferrous nodules
10		Stiff tan and light gray clay with silt traces and ferrous nodules
15		Stiff tan and light gray clay with silt pockets and ferrous nodules
20		Stiff tan and light gray clay with silt streaks, pockets, and ferrous nodules
25		Stiff tan and light gray clay with silt lenses, streaks, pockets, and 1¼ inch silt layer
30		Stiff tan and light gray clay with silt lenses, silt streaks, and pockets
35		Stiff tan and light gray slightly sandy clay with sand lenses, sand streaks, and pockets
40		

PROJECT: Monitor Well Installation
Baton Rouge, Louisiana

FOR: Schuylkill Metals Corporation
Baton Rouge, Louisiana

BORING N 13
FILE 84-184
DATE 7 Dec. 1984
TECHNICIAN RM

Note: Soil strength determined by field methods

UNDISTURBED SAMPLE | STANDARD PENETRATION TEST | BORING DEPTH 50 Feet

DEPTH FEET	SAMPLES	
0		
		Medium tan silty clay with 1 inch clayey silt layer, silt streaks, and ferrous nodules
5		
		Medium tan silty clay with 1½ inch and 1 inch silt layers
10		
		Medium tan and light gray clay with silt pockets and ferrous nodules
15		
		Stiff tan and light gray clay with silt pockets
20		
		Stiff tan and light gray clay with 4 inch silt layer and silt streaks
25		
		Very stiff tan and light gray clay
30		
		Very stiff tan and light gray clay with silt traces
35		
		Very stiff tan and light gray clay with silt traces and calcareous nodules
40		
		Very stiff tan and light gray clay
45		
		Very stiff tan and light gray clay with silt streaks and calcareous nodules
50		

LOG OF BORING

PROJECT: Existing Lead Production Plant, Baton Rouge, Louisiana

BORING: EB-4A
FILE: 80C5189
DATE: 9/24/80
TECHNICIAN: JRD

CLIENT: Schuylkill Metals Corporation, Baton Rouge, Louisiana

Approx. Ground Surface Elev. = 77.5'

DRY AUGERED 0 to 2' — WASH BORED 2' to Bottom

No water entered the borehole during dry augering

DEPTH (FEET)	STANDARD PENETRATION (BLOWS/FOOT) or PKT. PEN. (TSF)	COMPRESSIVE STRENGTH (TSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	L.L. (%)	P.I. (%)	DESCRIPTION OF STRATUM
0	Bag						SLAG
	Bag						
5	2.2						Stiff tan and light gray Silty CLAY with ferrous nodules (CL)
	2.0	1.11	20	102	33	11	
10	3.7						Stiff to very stiff tan, light gray and reddish-brown CLAY with sand and silt streaks and pockets (CL-CH)
	4.5+		19		44	32	
	4.2						
15	4.5+						
	4.5+						
20	3.0		24				Stiff tan and light gray Silty CLAY with silt and sand streaks and pockets (CL)
	2.0		23			NP	Firm tan and light gray Sandy SILT with silt pockets and clay layer (ML)
25	2.7						Very stiff to hard tan, light gray and reddish-brown CLAY with silt streaks and pockets (slickensided) (CH)
	4.0						
	4.5+		32				
30	4.5+						
	4.5+						
	4.5+		20				---with large calcareous nodules
35	4.5+		21				Stiff tan and brown Clayey SILT with sand and clay pockets (CL-ML)
			28	99			Dense tan SILT with clay pockets and trace sand (ML)
40	39b/f						---with very stiff clay layers (CH)
	2.7		18		34	20	Very stiff light gray Silty CLAY with silt streaks and pockets (CL)
45	3.7						Very stiff to hard tan and light gray CLAY with trace sand (CH)
	4.2						
	3.7						---with sand streaks and pockets below 46'
50	3.5						

Bottom of boring at 50'

LOG OF BORING

BORING EB-4
FILE 80C5189
DATE 9/24/80
TECHNICIAN JRD

PROJECT Existing Lead Production Plant
Baton Rouge, Louisiana

CLIENT Schuylkill Metals Corporation
Baton Rouge, Louisiana

DEPTH (FEET)	SAMPLE	STANDARD PENETRATION (BLOWS/FOOT) or PKT. PEN. (TSF)	COMPRESSIVE STRENGTH (TSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	L.L. (%)	P.I. (%)	DESCRIPTION OF STRATUM
								NOTE: Original location of EB-4 abandoned after encountering about 6' of slag. Hole moved 125' to the southeast. Hole grouted full depth after drilling.

WOODWARD-CLYDE CONSULTANTS

APPENDIX J

SITE GEOLOGY

The approximate locations of surficial deposits in the general vicinity of the plant are shown on Figure J-1. The site of the Schuylkill Metals Corporation Plant, located northwest of Baton Rouge in East Baton Rouge Parish, is situated on the Prairie Terrace of Pleistocene Age.

Seventeen soil test borings were drilled at the site between September 25, 1980, and January 24, 1981, and two additional borings were drilled between December 7 and 21, 1984, generally using either a truck or buggy-mounted rotary-type drilling rig. The approximate locations of the borings are shown on Figure J-2, Site Plan and Boring Locations.

Eight of the borings, EB-1, EB-2, EB-4A and EB-5, EB-6, EB-7, EB-8 and EB-8A, were strictly exploratory in nature and were continuously sampled full depth or to 8 to 10 feet with samples below 8 to 10 feet on 3- to 5-foot centers. These borings were drilled to depths of 30 to 50 feet with the exception of EB-8, which was terminated at 18 feet. Boring EB-3 could not be drilled due to the large thickness of slag beneath the proposed location. Boring EB-4 was drilled into 6 feet of slag and then was offset 125 feet due to the slag thickness and drilled as EB-4A. These eight exploratory borings were grouted full depth after drilling.

The remaining nine borings, W-1 through W-4 and W-7 through W-13, were drilled for exploratory purposes in addition to observation well installation. Borings W-5 and W-6 were not drilled, again due to the thickness of slag. Borings W-1 and W-7 were continuously sampled for their full depths of 46 feet and 30 feet, respectively. Borings W-2, W-3, W-4 and W-8 through W-11 were continuously sampled in the upper 10 feet and then samples were obtained on 3- to 5-foot centers below 10 feet to total depths of

40 to 50 feet below grade. Samples were collected on 5-foot centers for the 50-foot depth of Boring B-13 and the 37-foot depth of Boring W-12. Two-inch diameter plastic pipe observation wells were then installed in each of these "W" boreholes. All wells had 10-foot long well screens at the bottom. Sand was placed in the annulus adjacent to the screen and cement grout placed above the screen with a layer of bentonite pellets between. A concrete cap was placed at the ground surface in order to impede surface water infiltration. Installation of these wells was performed in accordance with Part C of the Analytical Operating Procedures Manual.

A total of 870 lineal feet were drilled, including 386 feet of which were continuously sampled and 53 feet which were augered.

The soil conditions encountered are presented in graphical form on the generalized subsurface soil profiles in Figures J-3 through J-5. Basically, on the major portion of the site, the boring logs show a soil profile beneath any slag grading from silty clays and clayey silts near the surface to clay at depth. A brief description of the soil conditions is given below.

In the relatively high flat portion of the plant area, the soil conditions typically consist of about 8 to 12 feet of medium to stiff silty clay or clayey silt overlying stiff to hard clays to a depth of at least 50 feet below grade. These clays often contain layers of silty clay, clayey silt, sandy silt and silty sand up to 5 to 6-1/2 feet in thickness which do not appear to be continuous across the plant site.

Boring W-8 and W-9 were drilled in the lower water treatment pond area. In W-8, the stiff to very stiff clay was encountered below 18 inches of very stiff silty clay. In W-9, the stiff clay was encountered below 3-1/2 feet of surface slag.

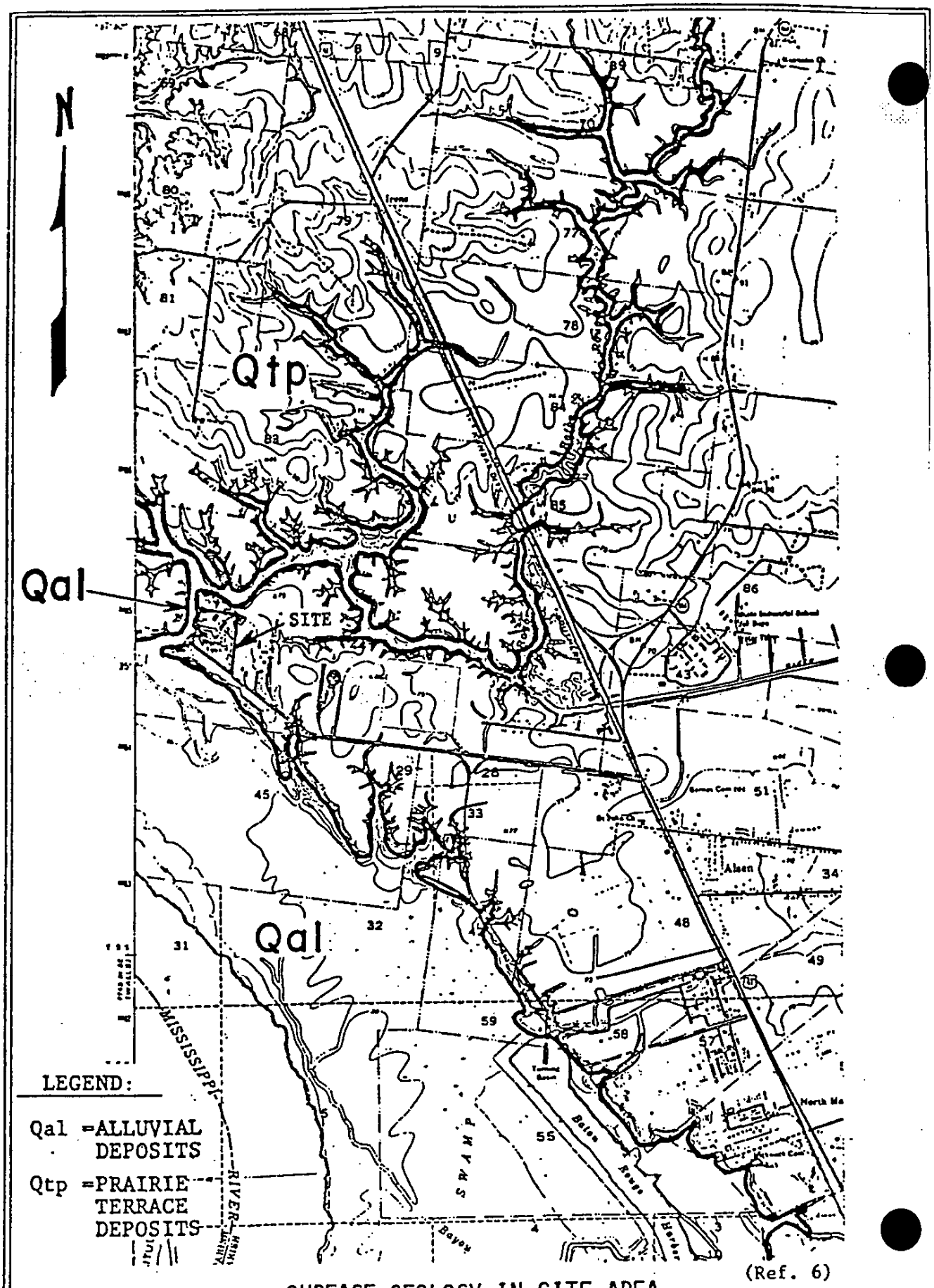
Borings W-4 and W-7 were drilled at the western edge of the site adjacent to Bayou Baton Rouge. In W-4, very loose sandy silt was encountered to a depth of 6-1/2 feet,

followed by very soft to soft clayey silt extending to a depth of 9-1/2 feet prior to penetrating the stiff to very stiff clay. In W-7, layers of loose silt and soft to stiff clays were observed to a depth of 6 feet and overlie the stiff to very stiff clay.

Boring EB-7 was drilled near the bottom of the old drainageway at the northern edge of the property. Beneath 6 feet of rubble fill (which is being removed), a 2-foot layer of silty clay overlies the stiff clay. A 6-foot thick sandy silt layer was encountered at a depth of 10-1/2 feet to about 17 feet.

Boring EB-8 was drilled on the northeast edge of the property. The boring penetrated 18 feet of coke prior to encountering natural soils. This coke was pushed onto the site from the adjacent property and apparently into an old drainage ditch. This borehole was abandoned after determining the depth of the coke.

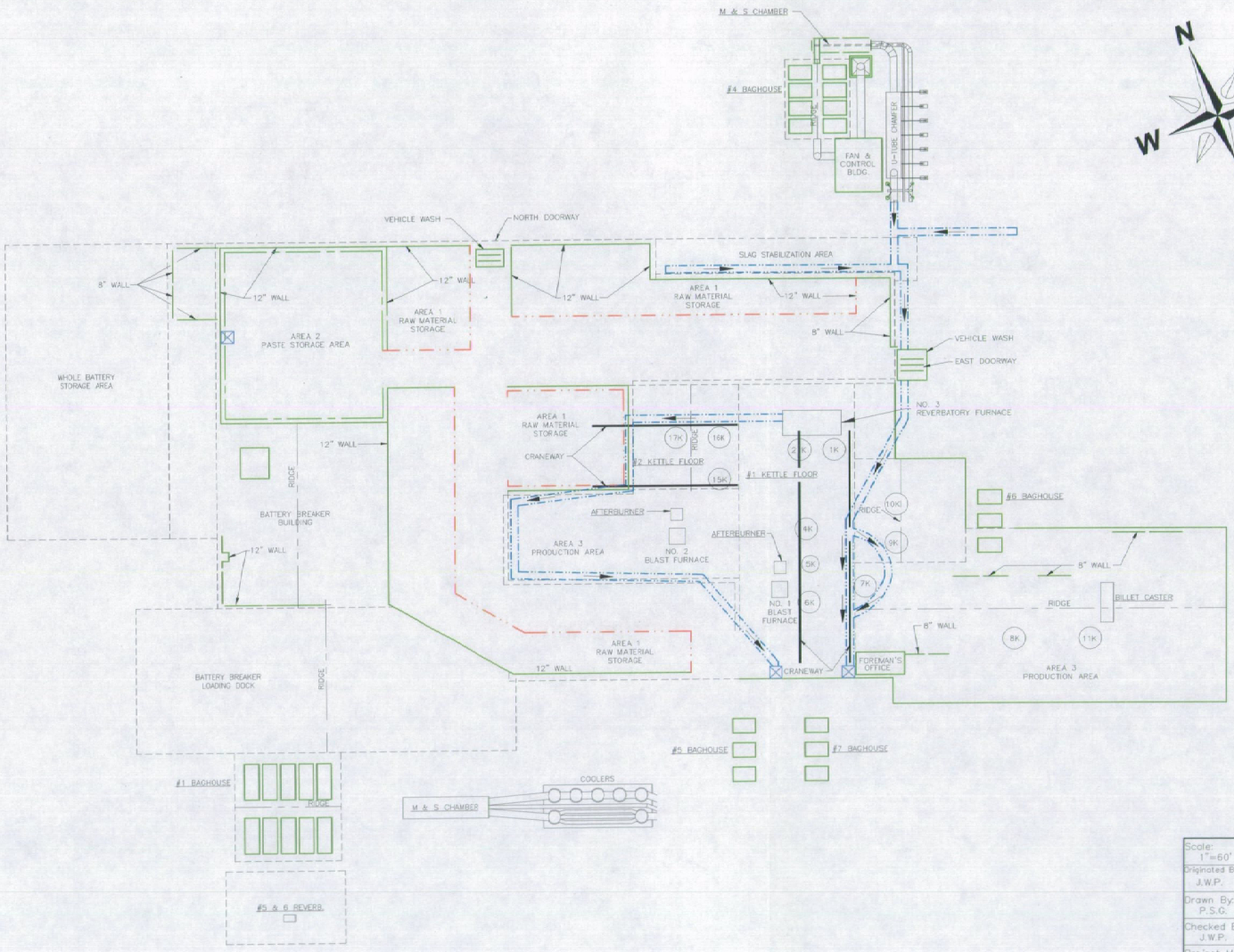
Based on logs from existing water wells in the vicinity of the site, the soil cross-section to a depth of about 500 feet below the plant site was prepared and is presented in Figure J-6. Well logs obtained in the major industrial area south of the site extend to depths of 3,000 feet below the plant site elevation. These deeper logs are summarized on the cross-section presented in Figure J-7. Also shown are measured permeabilities in the "1200-ft," "1500-ft," and "2000-ft" sands.



SCHUYLKILL METALS
BATON ROUGE, LOUISIANA

FIGURE J-1

WOODWARD-CLYDE CONSULTANTS



Legend

- Area 1 Raw Material Storage Areas
- Area 2 Paste Storage Area
- Area 3 Production Area
- Water Collection Sump
- Floor Drain
- Water Flow

Notes:

1. Base map comprised from Exide Corporation drawing titled "Containment Building" for the Hazardous Waste Containment Building Certification drawing no. B24-810-01 drawn by C-K Associates, Inc. dated 11/03/99.
2. Area 2 sump location from Providence Engineering as-built dated November 19, 2003.

60 0 60

Scale: 1" = 60'

EXIDE TECHNOLOGIES

BATON ROUGE, LOUISIANA

Scale: 1"=60'	CONTAINMENT BUILDING MAP
Originated By: J.W.P.	
Drawn By: P.S.G.	Advanced GeoServices Corp. 1055 Andrew Drive Suite A West Chester, Pennsylvania 19380 (610) 840-9100 FAX: (610) 840-9199
Checked By: J.W.P.	
Project Mgr: P.G.S.	
Dwg No. 2003-1058-03-09	Project No. 2003-1058-03 FIGURE: 2
OCT 20 2005	

J:\EXIDE\DRAWINGS\baton rouge\2003-1058-03\2003-1058-03-09

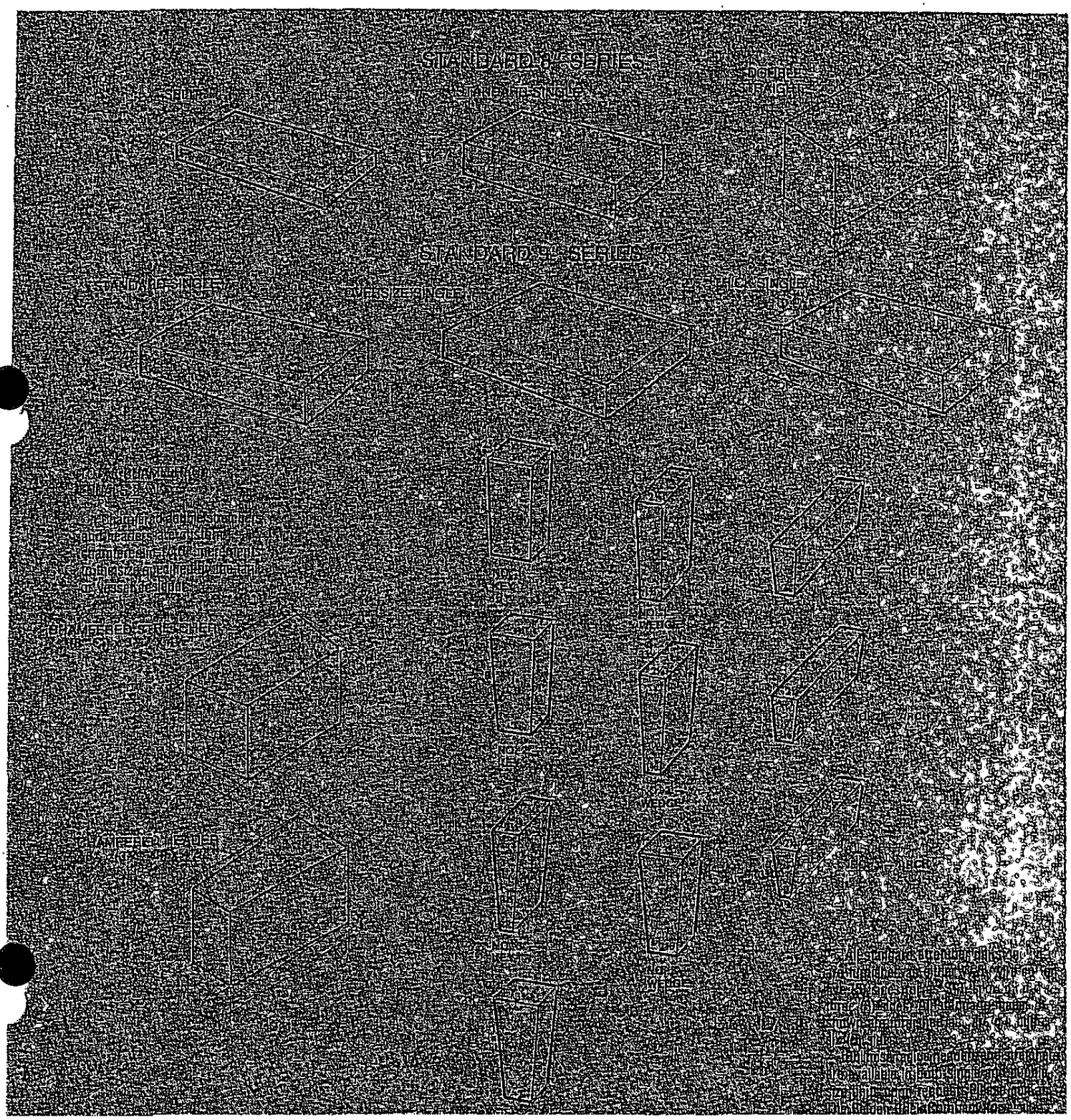
BEST COPY

Belden Fire Clay Chemical Resistant Brick

One important advantage of fire clay brick is its low iron content. This characteristic makes fire clay brick preferable for textile mills and paper/pulp industries where processing chemicals can leach iron from the brick and cause color contamination. Accordingly, these brick are seen as contributing to end product integrity.

In addition, fire clay brick's buff coloration is more light reflective than red shale brick. This factor can sometimes be a factor in illumination planning.

For a review of the physical properties of Belden fire clay chemical reistant brick, please consult page 4.



Belden Chemical Resistant Brick

All Belden chemical resistant brick are manufactured to conform to or exceed ASTM C-279, and are available in either Type I or Type II. Minimum requirements regarding the ASTM C-279 specification standards are shown in the following table:

Physical and Chemical Requirements

Designation	Modulus of Rupture, p.s.i.	Water Absorption	U.S.C. Sorption
	Minimum Average	Maximum Average	Maximum Average
	5 hr. Boiling	24 hr. Boiling	Weight
Type I	Average	Average	Average
	Brick Unit	Brick Unit	Brick Unit
	Low Individual	High Individual	Brick Unit
Type I	1250/85	10/6	
	1250/85	10/6	
Type II	1200/85	10/6	

Typical Physical Properites of Belden Shale and Fireclay Chemical Resistant Brick Products

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Bulk Density, lbs./cu. ft.	ASTM C-20	139-141	145-149	PSI (Professional Services Industries, Inc.)
Water Absorption, %	ASTM C-20	3.14-3.46	3.22-3.55	" "
Solubility in Sulfuric acid. Loss in mass, %	ASTM C-279	2.2-3.9	2.1-3.1	" "
Apparent Porosity, %	ASTM C-20	7.42-8.06	7.76-8.51	" "
Apparent Specific Gravity, grams/cc	ASTM C-20	2.54-2.55	2.61-2.62	" "
Modulus of Rupture, p.s.i.	ASTM C-67	1900-3560	2210-2600	" "
Compressive Strength, p.s.i.	ASTM C-67	21,390-22,650	21,060-23,600	" "
Tensile Strength, p.s.i.	ASTM C-1006	3195-3390	1675-3285	" "
Modulus of Elasticity, p.s.i.	ASTM C-885	$6.98-7.97 \times 10^6$	$6.68-6.84 \times 10^6$	" "
Poisson's Ratio	—	.125-.193	.125-.127	" "
Coefficient of Expansion, in/in/°F$\times 10^{-6}$	—	4-5.5	2-3.5	Corrosion and Chemically Resistant Masonry[1]
Thermal Conductivity, BTU-in/hr.-ft.^{2}-°F	ASTM C-236	7-9	6-10	" "
K Factor, BTU/sq. ft./in./hr.	ASTM C-177	8	9	" "

(1) Corrosion and Chemically Resistant Masonry Materials Handbook by Walter Lee Sheppard, Jr., P.E.B. Chem., M.S. C.C.R.M., Inc., 1988

Mortar manufacturers should be consulted for their recommendations for use with chemical resistant brick construction. For names and addresses of mortar manufacturers please contact The Belden Brick Company, P.O. Box 20910, Canton, OH 44701-0910.

Please Note: The information given in this reference table is based on a sample of [illegible] guarantee is made or implied. We assume no liability in connection with the use of this information. Please contact The Belden Brick Company for specific recommendation.

THE BELDEN BRICK COMPANY / P.O. BOX 20910 / CANTON, OHIO 44701-0910
Telephone: 216/456-0031 FAX: 216/456-2694

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Product Information

CE-128

FURALAC® Green Panel and Special Mortar

Description
FURALAC Green Panel Mortar is a versatile, chemically resistant furan resin-based mortar. FURALAC Green Panel Mortar Powder is manufactured by a multi-step process which when mixed with FURALAC Resin renders excellent bond strength, high chemical resistance, and reliable curing and handling characteristics. The mortar contains no silica and is usable in both concentrated alkali and *hydrofluoric acid environments.*

Also available is FURALAC Special Mortar in which the powder contains no carbon or silica fillers. It is intended for use, within its chemical resistance range, against lead and nickel/chrome alloys where carbon filled mortars can create a corrosive "electrolytic cell" and where non-conductivity combined with alkali and hydrofluoric resistance is required.

Areas of Use
FURALAC Green Panel Mortar is used in the construction of chemically resistant brick and tile floors, trenches, tanks, process vessels, chimney linings and equipment linings. It is ideal for use in the installation of chemically resistant floors which are often subjected to strong alkali cleaners. It is also used to join sections of chemical resistant vetrified clay sewer lines.

FURALAC Special Mortar has similar characteristics, but is used where the electrical conductivity of FURALAC Green Panel Mortar is not desired.

Outstanding Features
- ☐ Highly resistant to strong alkaline and hydrofluoric acid environments.
- ☐ Low shrinkage.
- ☐ *Excellent bond strength to chemically-resistant brick and tile.*
- ☐ Stable in storage up to one year, when stored in a cool, dry location 70°F (21°C).
- ☐ A special FURALAC Cold Room Hardener may be added to the mortar during field mixing for those installations where temperatures are between 32-55°F.

Safety Precautions
FURALAC Green Panel Powder, FURALAC Special Powder and FURALAC Resin and/or mixes of them, present a number of hazards. Read and follow the hazard information each label and material safety data sheet before using.

Mixing Instructions
1. Pour measured amount of FURALAC Resin into a clean, dry mixing container.
2. Add measured amount of FURALAC Green Panel or Special Powder a little at a time, mixing constantly with a trowel, mortar hoe or slow speed mechanical mixer until the powder is thoroughly wetted by the resin. FURALAC Green Panel is mixed *in an approximate ratio of 2 parts (by weight)* powder to 1 part (by weight) resin. FURALAC Special is mixed in an approximate ratio of 3.5 parts (by wieght) powder to 1 part (by weight) resin.
3. Mortar which has begun to set cannot be recovered by adding more resin. Such mortar must be discarded. Never add water or other diluents.
4. Mixing blades, mix containers, mortar pans, trowels, etc., should be cleaned periodically.

Use Instructions
FURALAC Green Panel or Special Mortar is applied by trowel to clean, dry, neutral masonry, and other surfaces by trowel, observing the following procedures:
1. All bonding surfaces shall be buttered completely in order to eliminate voids.
2. Mortar joints should be kept full, and be of a nominal 1/8" (3.2 mm) width.
3. FURALAC Green Panel Mortar may be applied directly over asphalt membrane surfaces and other membrane surfaces including rubber and plastics. FURALAC Special Mortar may be applied directly against lead liners.
4. The working and setting times of the wet mortar shall not be lengthened by reducing the proportion of powder in the mix. These factors are best controlled by temperature.

In COLD weather, initial setting of the mortar can be hastened by:
a. Keeping the Powder and Resin in a warm location 75-85°F (24-29°C).
b. Store brick in a warm 75-85°F (24-29°C) location at least 48 hours prior to usage. Brick or tile pallets shall be broken open to allow those brick in the interior of the pallet to also be warmed.
c. Avoid frost and moisture in bricks by keeping them under cover.
d. If ambient and substrate temperatures are below 55°F (13°C) and above 35°F (2°C), FURALAC Mortar Cold Room Hardener may be thoroughly mixed into the FURALAC Green Panel Powder in the field in an amount up to 7.5% of the weight of the FURALAC Green Panel Powder to which it is being added. Thoroughly mix the hardener addition into the FURALAC Green Panel Powder for at least 3 minutes before adding to the resin. If the work life is less than 25 minutes, then cut back on the amount of the Cold Room Hardener addition.

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In HOT weather, the following practices will extend working time:

a. Mix smaller batches.
b. Keep components and brick in a cool, under 70° F (21° C), shaded location. Refrigerate the resin for 48 hours prior to use.
c. Place mixing pan in another pan containing cold water or ice. Avoid getting water in mortar.

Specific Resistance:
The resistance of FURALAC Green Panel and Special Mortars to a wide variety of common corrosives is shown in Atochem North America's Chemical Resistance Chart for Mortars. Contact your Atochem North America representative for a copy of chart CE-122.

Estimating

FURALAC Green Panel Mortar

Powder to Solution Ratio .....2 to 1 by weight
Powder (6546-50) .....44 lb. bag (2 per unit) 20.0 kg
Solution (6545-50) .....44 lb. pail (1 per unit) 20.0 kg
(6545-20) .....500 lb. drum 226.7 kg
Unit Net Weight .....132 lb. (60 KG)
Unit Gross Weight .....138 lb. (62.7 KG)
Freight Classification .....Acid Proof Building Cement

FURALAC Special Mortar

Powder to Solution Ratio .....3.5 to 1.0 by weight
Powder (6547-60) .....77 lb. bag (2 per unit) 34.9 kg
Solution (6545-50) .....44 lb. pail (1 per unit) 20.0 kg
Unit Net Weight .....198 lb. (89.8 KG)
Unit Gross Weight .....204 lb. (92.5 KG)
Freight Classification .....Acid Proof Building Cement
FURALAC Cold Room
Hardener (7246-50) .....50 lb. bag (22.7 KG)

Estimating Table

Nominal Brick Size	Lining Thickness	No. of Brick/100 Sq.Ft. of Area Lined	Net No. of Units of Mortar Required per 100 Sq.Ft. of Area Lined** GP	Special	Lbs. of Mixed Mortar Required 1,000 brick Troweled on 3 Faces (Side Bed and Back Joint)** GP	Special
8"x3¾"x1½"	1½"	480	1.3	1.2	337	534
8"x3¾"x2¼"	2¼"	480	1.5	1.5	413	653
8"x2¼"x3¾"	3¾"	800	2.5	2.5	413	653
8"x4½"x3¾"	3¾"	400	1.9	1.9	606	959
8"x3¾"x4½"	4½"	480	2.2	2.2	606	959
9"x4½"x2½"	2½"	356	1.5	1.5	543	859
9"x2½"x4½"	4½"	640	2.7	2.7	543	859
9"x4½"x3"	3"	356	1.6	1.6	592	938
9"x3"x4½"	4½"	534	2.4	2.4	592	938

**Theoretical Net Quantities are based on ⅛" (3.2 mm) wide joints. No overage included.

Curing Temperature/Time Schedule

Curing Temperature (air temp. in contact with brick work)	Time
50° F (10° C)	14 days
70° F (21° C)	7 days
90° F (32° C)	3 days

Typical Physical Properties *

Mortar Density
Green Panel .....105 lb./cu. ft. (1681.9 Kg/m³)
Special.....160 lb./cu. ft. (2562.9 Kg/m³)
Compressive Strength (ASTM C579) .6,000 psi (41.4 MPa)
Flexural Strength (ASTM C580) ....2,000 psi (13.8 MPa)
Tensile Strength (ASTM C307) .....900 psi (6.2 MPa)
Bond Strength to wire cut brick faces
(ASTM C321) .....752 psi (5.0 MPa)
Bond Strength to matte surface brick
(ASTM C321) .....580 psi (4.0 MPa)
Maximum service temperature .....350° F (m° C)
Work Life (ASTM C308) .....25-35 minutes
Initial set time (ASTM C308) .....40-50 minutes
Color of mortar .....Black
Absorption (ASTM C413) 0.17%

Important Notice Regarding This Information:
Use this reference information as a guide only. The information given is believed to be reliable, but no guarantee is made or do we assume liability in connection with its use. Please contact the Corrosion Engineering Department for specific recommendations at 215-587-7185.

Issued 4/91 3M Supercedes: 7/84

ATOCHEM NORTH AMERICA, INC.
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Product Information

THIN SET® ADHESIVE

CE-158

Description

THIN SET Adhesive is a three-component system composed of THIN SET Adhesive Resin (Part A), Hardener (Part B), and Powder (Part C). Used to bond brick pavers and tile to most surfaces. THIN SET Adhesive provides a tough resilient, thermal shock and corrosion resistant adhesive.THIN SET Adhesive may also be employed to bed steel floor plate.

Areas of Use

Because of its strength and resilience, THIN SET Adhesive is ideal for bonding tile and pavers and steel floor plates in areas where there is heavy wheeled or foot traffic, impact or abrasive wear, or thermal shock. Its chemical resistance makes it applicable in dairies, packing houses, and wherever moderate corrosion resistant protection is required.

Outstanding Characteristics

- ☐ *Forms strong resilient bond.*
- ☐ Economical . . . narrowest practical joint depth may be used.
- ☐ Good corrosion resistance to moderate acids, alkalies, and solvents.
- ☐ Good abrasive wear and impact resistance to heavy traffic loads.
- ☐ Preportioned for easy on-the-job mixing.
- ☐ Good resistance to thermal shock.
- ☐ Good tolerance to damp surfaces.
- ☐ Low odor level.

Safety Precautions

THIN SET Adhesive components, and mixes of them present various hazards. Read hazard and precautionary information on each label and material safety data sheet before using.

Application—Mixing and Use

Mixing Instructions

1. Pour the contents of one can of THIN SET Hardener, Part B, (1.9 lbs. or .862 kg.) and a can of THIN SET Resin, Part A, (7.0 lbs. or 3.18 kg.) into a clean, dry mixing container.
2. To the combined Resin/Hardener mixture, slowly add, and mix in, 24 pounds (10.9 kg.) of THIN SET Powder, Part C (one-half bag).
3. Mix until all lumps are broken.
4. Adhesive which has begun to set cannot be recovered by adding more Resin; such material must be discarded.
5. Never add water, Portland cement, or any other additive or adulterant to any component or to the mixed adhesive.

Use Instructions

Concrete Substrate to which THIN SET Adhesive is applied must be free of laitance, curing compounds, oils or other release agents. Concrete mix may not contain water reducers, air entrainment agents or additives or admixtures of any kind not specifically recommended by ATOCHEM. The concrete must be at least 3000 psi at the surface. Floors should be designed to slope continuously to drains so that no puddling will occur. A slope ¼" to the foot is recommended. (See CES-315 for full requirements.)

1. All surface contamination must be removed before application of the Adhesive. Substrate temperature must be a minimum of 50°F (10°C). When surfaces are below 50°F (10°C) substitute THIN SET Cold Room Hardener for THIN SET Hardener. This substitution will allow the adhesive to properly cure.
2. Ideally, all surfaces should be dry. However, in certain cases, damp surfaces may be acceptable if primed with a coating of PENNTROWEL® Epoxy Primer (See CE-139).
3. Apply the Adhesive, (mixed in accordance with previous instructions) with a trowel. Avoid laying Adhesive over a construction or expansion-contraction joint.
4. Slide each tile along the bed until it is the proper distance from its neighboring tiles. The tile should slide no more than three inches.
5. After tiles have been installed, level tiles with a mallet and straight edge or other suitable tool.
6. Clean tools immediately after use with soapy water.

Typical Working Characteristics

Temperature ..... 70°F(21°C)
Working Life (Minutes) 60
Initial Set (Hours) 6
Final Cure (Days) 7

Working and setting times are controlled by temperature. In hot weather, the following procedures will extend working times:

1. Mix smaller batches.
2. Keep ingredients in a cool, shaded location.
3. Refrigerate Resin (Part A) portion for 24 hours before use.
4. Keep mixing pan in another pan containing cold water or ice.

In cold weather, setting time can be hastened by:

1. Keeping Powder, Resin, Hardener, and mixes in a warm location.
2. Warming tile or pavers by storage at 70°F (21°C) or higher for at least 48 hours and using the same day as removed from storage.
3. Avoid frost and moisture in tile and pavers by keeping them under cover.

Typical Physical Properties

Compressive Strength (ASTM C-306) ..... 10.000 psi (68.9 MPa)
Tensile Strength (ASTM C-307) ..... 2.500 psi (17.2 MPa)
Flexural Strength (ASTM C-580) ..... 4.500 psi (31.0 MPa)
Coefficient of Expansion (ASTM C-531) ..... 35×10^{-6} in./in./°F (63×10^{-6} cm./cm./°C)

Adhesion:
To brick pavers ..... Greater Than Strength of Brick
To concrete ..... Greater Than Strength of Concrete
Maximum Service Temperature:
Continuous, °F ..... 160 (71°C)
Intermittant, °F ..... 220 (104°C)
Water Absorption, % (ASTM C-413) 0.2%
Color ..... Grey

Estimating

When estimating, it is important to specify the correct ratio of Resin to Hardener to Filler. The following recommended ratio will yield the coverage indicated.

Powder: Resin: Hardener Ratio (By Weight) 12.6 to 3.7 to 1.0

Packaging

Component	Package Size
Resin (Part A) Product Code 7043	2/7.0 lb. cans (2/3.18 kg. cans)
Hardener (Part B) Product Code 7118	2/1.9 lb. cans (2/.862 kg. cans)
Powder (Part C) Product Code 7102	1/48.0 lb. bag (1/21.8 kg. bag)

Coverage ..... 70 sq. ft. @ 1/8" (6.5 m³ @ 3.2 mm.)*

*Theoretical Coverage—No Overage Included

Freight Classification: Acid Proof Building Cement

Steel Floor Plate Adhesive

THIN SET Adhesive is also used to bond steel floor plate to concrete substrates. When used for this purpose:

1. Apply mixed material to floor using a trowel.
2. Be sure that steel plate is free of oil, grease, and rust, is shiny and clean, preferably sandblasted.
3. Slide each plate along bed until it is the proper distance from its neighbor. The plate should slide no more than six inches.
4. After six plates have been installed, tamp down plates with a mallet or other suitable tool.
5. Remove excess adhesive which has been displaced at each joint.

As previously noted, when contact surfaces are below 50°F (10°C), it is necessary to substitute THIN SET Cold Room Hardener for THIN SET Hardener. In such cases, the revised mix ratio for the adhesive is as follows:

THIN SET Adhesive Powder	1/48 lb. bag
THIN SET Resin	2/7 lb. cans
THIN SET Cold Room Hardener Product Code 7117	2/1 lb. cans

Shelf Life and Storage

If THIN SET Adhesive Powder is stored like Portland Cement in a dry, cool covered premise on wooden pallets, it should be useable for up to one year from its date of manufacture.

If THIN SET Adhesive Resin and Hardener are stored in a cool, dry location it should be usuable for up to one year of its date of manufacture.

Use this reference information as a guide only. The information given is believed to be reliable, but no guarantee is made nor do we assume liability in connection with its use. Please contact the Corrosion Engineering Department for specific recommendations AT (215) 587-7185.

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Product Information

CE-133

FLEXJOINT® Joint Filler

Description
FLEXJOINT Joint Filler is a two-component sealant for expansion contraction joints in corrosion-resistant construction. FLEXJOINT provides high bond strength and good traffic bearing characteristics where resiliency, flexibility and chemical resistance are required.

FLEXJOINT Pouring Grade may also be used to seal control joints and other points of movement. This product is available in black or gray, caulking and pouring grade.

Areas of Use
Caulking and Pouring Grades
Caulking Grade has the consistency of putty at normal temperatures and is used for filling vertical joints in stone, concrete, metal, glass, ceramic tile and brick, latex cement surfacings, epoxy and polyester resin surfacings. Caulking Grade is for use in vertical joints only.

Pouring Grade is fluid at normal temperatures and is used in filling horizontal joints in stone, metal, glass, concrete floor slabs, column pedastals, foundations, piers on interior applications, latex cement floor toppings, epoxy and polyester resin trowel toppings and ceramic tile and brick.

FLEXJOINT Pouring Grade should NOT be used for filling expansion-contraction joints in concrete slabs or PENNTROWEL® Epoxy Toppings where the installations are out of doors or are within cold rooms. In such installations substitute a urethane sealant or equal product.

*To minimize the possibility of longitudinal cracking or disbonding of the FLEXJOINT, we recommend that the joints not be filled until the concrete has cured to the point of maximum shrinkage and after the enclosed room has reached a temperature equilibrium. NOTE that the elongation of FLEXJOINT is a maximum of 50%. Therefore, for FLEXJOINT to seal a joint and to function properly, the movement of the sides of the joint (expansion or contraction) may never exceed ½ of the joint width. The depth of the FLEXJOINT should never exceed ½", and under the FLEXJOINT should be either a bond breaker material or a flexible foam or fiber filler - never a board or other hard object. However, Atochem North America does NOT warrant nor assume any liability for the performance of the FLEXJOINT Joint filler in control joints.

Outstanding Characteristics
- ☐ FLEXJOINT Joint Filler is corrosion resistant (within its limitations).
- ☐ FLEXJOINT Joint Filler offers an outstanding recovery of the Caulking Grade. Over 95% of the original shape may be recovered after prolonged exposure to heavy weight loads.
- ☐ FLEXJOINT Joint Filler provides balanced hardness of the Pouring Grade. This minimizes damage due to passage of traffic over joints, yet absorbs concrete expansion at joint rather within the slab itself.
- ☐ FLEXJOINT Joint Filler absorbs the stresses of compression or expansion without developing counterstresses in the masonry.

Mixing Instructions
FLEXJOINT Joint Filler is a two-part resin-hardener system packaged in ready-to-mix units. The unit packages are designed as pre-measured combinations of Resin and Hardener for easy mixing in the field. Temperature of both components must be above 50°F (10°C) when mixed. Both components are very thick and viscous and must be cut into each other with a putty knife, then mixed with a slow mixing power mixer.

Caulking Grade
1. Remove entire contents of FLEXJOINT Caulking Resin can into a small mortar or mixing box. Mix Resin component thoroughly to uniformity prior to adding the Hardener.
2. Pour entire contents of FLEXJOINT Hardener can into the Caulking Resin and mix thoroughly with a pointing trowel or similar tool.
3. Mix only as much as will be used in 15 minutes during warm weather and 30 minutes in cool conditions.

Pouring Grade
1. Cut out top of Resin can with a can opener to facilitate pouring of mixed Resin-Hardener.
2. Slowly stir contents of FLEXJOINT Resin can to blend fillers into liquid resin to uniformity.
3. Pour contents of FLEXJOINT Hardener can into FLEXJOINT Resin can and mix thoroughly.
4. Mix only as much as will be used in 15 minutes during warm weather and 30 minutes in cool conditions.

Application Instructions
Surface Preparation
New Surfaces - Where new joint surfaces of concrete are clean, remove laitance and loose particles by brushing or with air blast. For formed concrete, clean the surfaces by power wire brushing or slightly sand blasting the edges of the panel. Be sure that top edges of joints are square, sharp and clean, and sides are at 90° from surface.

Old Surfaces - Rout old joint to a width approximately twice the depth of the joint. Cut joints so tips are square, 90° corners. Clean sides of joint by scraping or sandblasting. Remove loose particles by brushing or air blast. Be sure that all surfaces to be bonded are completely clean and sound.

Bottom of Joint - Cover bottom of joint with electrical grade (plastic) tape or other bond release agent.

Primer - Prime all surfaces as follows: apply one coat, by brushing the PENNTROWEL Epoxy Primer prior to use of FLEXJOINT. Fill primed joint within 4 hours and while primer is still "tacky". If for any reason elapsed time of 4 hours is exceeded, or Primer is no longer "tacky", reprime. Do not allow primer to puddle in bottom of joint.

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Application

Brick Joints - After priming, fill joints in two pours, first filling to about ½" (13mm) from top then waiting 15 to 30 minutes followed by ing the rest of the joint.

-lking Grade - Apply by knife or caulking gun in one application.

ring Grade - Pour into open joint from mixing container. Fill in two closely succeeding applications, filling the joint almost full in the first pour, permitting filler to settle, then fill completely in the second pour. Fill Joints starting with low spots of the floor first.

Do not apply FLEXJOINT when the substrate temperature is under 50° F (10° C) or when substrate is wet. Clean tools immediately after use with toluene. Follow use instructions and precautions supplied with toluene.

Design and Depth of Joint

See drawings numbered CED 1002, 1015, 1017, 1018, 1019, 1020, 1021 for design and depth of joints in brickwork, toppings and concrete. Follow procedures given in CES-307 for expansion joints in brickwork, and CES-310 for epoxy floor surfacings.

Storage

Store closed containers in a cool, dry place. Replace lids tightly on partially used containers. Do not mix more than is needed for immediate use.

Safety Precautions

DANGER

Contains ethanolamines and epoxy resins. CAUSE EYE BURNS AND SEVERE SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL IS SWALLOWED. Wear goggles or face shield and rubber or plastic gloves, aprons and boots. Do not get in eyes, on skin or clothing. Avoid prolonged or repeated contact. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. Avoid breathing. See individual components labels and material safety data sheets for full first aid and handling ructions.

ical Physical Properties

	Caulking Grade	Pouring Grade
Cured Mortar Density, lbs./cu. ft. kg./m³	40-42 640-675	92 1473.7
Tensile Strength, psi (ASTM C-307) after 14 days @ 70° F (21° C)	300 2.1 MPa	1130 7.8 MPa
Tensile Elongation % (ASTM D-638) after 30 days @ 70° F (21° C)	50	50
Compressive Yield, psi (ASTM C-306) after 28 days @ 70° F (21° C)	700 4.8 MPa	1500 10.3 MPa
Bond Strength, psi (ASTM C-321) after 28 days @ 70° F (21° C)	250 1.7 MPa	greater than strength of concrete
Moisture Absorption % (ASTM C-413)	Approx. 1	Approx. 1
Hardness, after 28 days @ 70° F (21° C)	74 (Shore A)	45 (Shore D)
Color	Gray or Black	Gray or Black
Minimum setting temperature nperature of adjacent surfaces)		50° F 10° C

Estimating

FLEXJOINT

	Color	Resin	Hardener	Package Size	Coverage ¼"x½" Joints
Caulking Grade	Black or Gray	3.5 lb. (1.6 kg)	0.29 lb. (0.13 kg)	2/3 gal. (2.5 liters)	100 lineal ft. (30.5 lineal m)
Pouring Grade	Black or Gray	9.1 lb. (4.1 kg)	0.51 lb. (.231 kg)	3/4 gal. (2.84 liters)	118 lineal ft. (36.0 lineal m)

Approximate Pounds/100 Linear Feet Flexjoint Caulking Grade

Depth of Opening	Width of Opening						
	¼"	⅜"	½"	⅝"	¾"	⅞"	1"
⅛"	2	3	4	5	6	7	8
½"	4	6	8	10	11	14	16
¾"	6	9	11	14	17	20	22
1"	8	11	15	19	22	27	30
1-1/2"	11	17	22	28	33	39	44
2"	15	22	30	37	44	52	60

FLEXJOINT Caulking Grade weighs approximately 3.5 lbs./ unit.

Approximate Pounds/100 Linear Feet Flexjoint Pouring Grade

Depth of Opening	Width of Opening						
	¼"	⅜"	½"	⅝"	¾"	⅞"	1"
¼"	4	6	8	10	12	14	16
½"	8	12	16	20	24	28	32
¾"	12	18	24	30	36	42	48
1"	16	24	32	40	48	56	64
1½"	24	36	48	60	72	84	96
2"	32	48	64	80	96	112	128

FLEXJOINT Pouring Grade weighs approximately 9.5 lbs., unit.

Important Notice Regarding This Information:

Use this reference information as a guide only. The information given is believed to be reliable, but no guarantee is made nor do we assume liability in connection with their use. Please contact the Corrosion Engineering Department for specific recommendations at 215-587-7185.

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APPENDIX H

PROFESSIONAL ENGINEER CERTIFICATION

CERTIFICATION STATEMENT

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

Signed:

STATE OF LOUISIANA
TODD A. BLACK
REG. No. 27127
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

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Exide Technologies

RESPONSE
ATTACHMENT A13

APPENDIX 13

TRAINING MANUAL

TRAINING MANUAL

EXIDE TECHNOLOGIES
BATON ROUGE SMELTER

2400 BROOKLAWN DRIVE
BATON ROUGE, LOUISIANA

Revision 3 – October 2005

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1.0 INTRODUCTION

1.1 Policy

The Exide Technologies, Baton Rouge smelter is located in Baton Rouge, East Baton Rouge Parish, Louisiana. This facility is a secondary lead smelter and refinery that recycles spent lead-acid batteries and inorganic lead-bearing wastes into product lead.

Exide is committed to providing a safe and healthy work place for all of the employees, contractors and vendors at the Baton Rouge smelter. Proper training is essential for accomplishing this goal.

1.2 Scope

This Training Manual outlines the training requirements of Exide Technologies Health and Safety and Environmental Programs. The purpose of this manual is to document the procedures that are used to train all of the employees at the Baton Rouge smelter in all of the required elements of the Health and Safety, and Environmental Programs.

2.0 OBJECTIVES

The objectives of this manual include outlining a Training Program that:

- Promotes the health and safety of Exide employees.
- Provides for safe working conditions at the Baton Rouge smelter.
- Maintains compliance with all applicable environmental, health and safety regulations.
- Satisfies the training requirements of Exide's environmental, health and safety programs.
- Documents that the training has been completed.

Successfully meeting the objectives of this training program require cooperation of all Exide employees. This manual describes the types of training, the training frequency and the documentation necessary to comply with Exide requirements and regulatory considerations. Classroom training is conducted by department supervisors and the Environmental, Health and Safety Department (E,H&S) during weekly safety meetings. Table 1 presents a schedule for the weekly safety meetings. On the job training is typically task or job specific and is conducted by a supervisor or senior employee that is familiar with the job.

2.1 Regulatory Considerations

There are a number of legislative acts, government agencies, and organizations that impose requirements, restrictions, or guidelines for activities conducted at the facility. The major agencies and the associated regulations that affect the Baton Rouge smelter include the following:

- Occupational Safety and Health Agency (OSHA) – 29CRF 1910
- Louisiana Department of Environmental Quality (LDEQ) – LAC 33:III, LAC33.V, LAC33.VII, and LAC33.IX.
- Environmental Protection Agency (EPA) – 40CFR 190-299
- Department of Transportation (DOT) – 29CRF 160-175

3.0 TRAINING PROGRAM

Exide has developed a comprehensive Health and Safety Program for the Baton Rouge smelter. The program presents the guidelines for protection of the safety and health of the employees at the Exide Baton Rouge facility. The overall Health and Safety Program is divided into component programs, such as lockout tagout and confined space entry. The Health and Safety Program is administered by Exide's EH&S Department.

This manual presents the training requirements specified in the Health and Safety program, as well as all other required training. Sections 3.1 through 3.13 outline the training programs that are in place at the Baton Rouge smelter. Appendix A presents an outline of the required elements of each of the training programs.

Written job descriptions have been developed for each position at the Baton Rouge smelter. The job descriptions list training requirements that the employees must complete. Appendix B presents a copy of these job descriptions.

New hires at the Baton Rouge smelter receive initial training on all required topics prior to beginning work.

3.1 Medical Surveillance Program

The Medical Surveillance Program at the Baton Rouge smelter is designed to protect the health of employees that may be exposed to elevated levels of heavy metals, in particular lead. Key elements of the Medical Surveillance Program include blood lead and air lead monitoring, medical examinations, and medical removal protection. The Medical Surveillance Program also includes drug screening and new hire physical evaluation.

Training on this program includes permissible exposure limits, types and frequency of exposure monitoring and medical removal protection. Part of the medical surveillance program includes lead exposure training. This training emphases personal hygiene and proper respirator use to

reduce exposure. Training is conducted at least once per year, with additional training administered as needed.

3.2 Lockout Tagout Program

The Baton Rouge Lockout Tagout Program describes the procedures to be followed when working on any type of equipment or machinery where the unexpected energizing, startup or release of energy could occur and cause injury. The program was developed to be job and equipment specific, so that employees know the proper lockout tagout procedures for the machinery or equipment in their work area. The lockout tagout program is reviewed annually by EHS Department with employee input and changes to the program are made as needed based on the Annual Review.

Refresher training is conducted annually for affected employees. Lockout tagout training is also conducted whenever there is a change in employee job assignments, when employees are working near equipment they have not been trained on, a change in equipment, machinery or process, or where energy control procedures have changed. Training covers lockout tagout procedures for specific equipment and job descriptions. Periodic audits of jobs that require lockout tagout are conducted.

3.3 Confined Space Entry Program

The Confined Space Entry Program was developed to provide procedures for the safe work of personnel required to enter confined spaces. A confined space is any area large enough that an employee can enter and perform work, but has limited means of entry or exit, and is not designed for continuous occupancy. The program lists all permit required confined spaces at the Baton Rouge smelter. The program describes permitting, entry procedures, the duties and responsibilities of the entrants and attendants, communication procedures and rescue procedures.

Initial employee training is conducted prior to beginning any confined space entry. Follow-up training is conducted at least annually. Training includes a review of the permitting process, atmospheric testing procedures, calibration of the monitoring equipment, and duties of each person on the confined space entry team.

3.4 Hearing Conservation Program

The Hearing Conservation Program describes noise monitoring of work area, engineering and administrative controls, and hearing conservation measures. The goal of the program is to eliminate hearing loss due to workplace noise exposure.

Affected employees are trained annually in the effects of noise, the purpose, advantages and disadvantages of various types of hearing protection, and the purpose of audiometric testing. The training emphasizes the selection, fit and care of hearing protection and includes a review of the hearing conservation areas at the smelter.

3.5 Respiratory Protection Program

Exide has an established Respiratory Protection Program in place at the Baton Rouge smelter. This program is designed to protect employees from air contaminants in the workplace. The program describes the procedures for medical evaluation of employee's ability to wear a respirator, the fit testing procedures, appropriate selection of a respirator, and use, cleaning and storage of respirators. Exide's respiratory protection program is also designed to protect contractors and vendors.

Training includes instruction on respirator fit and how to check the respirator's seal. The training provides employees an oppurtunity to handle the respirator, wear it, adjust it and become familiar with the respirator in a normal breathing air atmosphere. The specific respiratory hazards of each work area are discussed, along with selection methodology and limitation of particular types of respirators. The training instructs the employees in the proper way to don a respirator, fit testing, and proper wear. Respirator maintenance, storage and emergency handling situations are also discussed. Classroom instruction is conducted at least once per year, with on-the-job training, fit testing and personnel instruction being administered as required.

3.6 Powered Industrial Truck Safety

Powered industrial trucks (fork lifts) are used by nearly every department at the Baton Rouge smelter. Powered material handling training is conducted to meet the OSHA 29 CFR 1910.178 and Exide safety requirements. This training consists of classroom instruction and hands-on operation. Operators are trained to understand the basic operations of powered industrial trucks, including pre-start inspections, fueling, stability, visibility, handling, operating environment, obstructions, obstacles, and breakdowns. Possible hazards that may be encountered on the job are discussed. Operators are trained to recognize unsafe conditions and how to react to them when they occur.

Each new employee receives powered material handling safety training. Refresher training is conducted once every three- (3) years.

3.7 Hazard Communication

Training in hazard communications includes topics such as right-to-know, material safety data sheets (MSDS), labeling and placarding, chemical handling and chemical hazards. This training is conducted at least once per year. Training includes a review of the material safety data sheet binders, a discussion of specific chemicals used by department and job descriptions and required labels for trucks, batteries and containers.

3.8 HAZWOPER Training

As specified by OSHA 29CFR1910.120, certain employees conducting operations at treatment storage and disposal facilities must have training in hazardous waste operations. The training is designed to help employees perform their assigned duties and functions in a safe and healthful manner. This training is specific to job descriptions and work practices, and includes proper personal protective equipment and hazardous material handling procedures.

Every employee is given 8-hours of refresher training annually.

3.9 Baton Rouge Contingency Plan

Exide has prepared an Emergency Contingency Plan that lists emergency procedures and the emergency response organization. This plan was prepared to minimize injury and property damage in the event of a plant emergency or natural disaster. Training requirements include the plant alarm system, assembly areas, emergency response organization, emergency phone lists, fire protection equipment and evacuation routes.

Classroom training on the Emergency Contingency Plan is conducted annually. Announced and unannounced emergency drills are conducted periodically.

3.10 Environmental Regulations

Training on basic environmental regulations that affect the Baton Rouge smelter is conducted for all employees. This training includes a brief discussion of regulatory agencies and programs that affect operations at the smelter. The training describes specific requirements for various job descriptions and tasks such as inspection schedules, documentation and engineering controls.

Classroom instruction on environmental regulations is conducted annually, with on-the-job training being administered as required.

3.11 Spill Response

The Baton Rouge smelter has a Spill Prevention Control and Countermeasure Plan (SPCC) as required by LDEQ regulations. The spill response training covers spill prevention and control measures in affect at the site. Also the training discusses what to do in the event of a spill.

Spill response training is conducted at least once per year, typically in conjunction with environmental regulations training.

3.12 Work Practice Training Program

This program outlines methods and practices that when followed will reduce accidents and lead exposure. Training includes molten metal handling, chemical handling, drossing, and refining. Exide's safety consultant, Mr. Mel Cassady, CIH, completed a video exposure monitoring study of various workstations at the smelter. The video exposure monitoring has been incorporated into a Work Practice Training Program. Also part of the Work Practice training, the Baton Rouge smelter developed Job Task Analysis forms for various jobs performed by smelter employees. This program will result in reductions of air and blood lead levels in workers. Training is conducted annually and is job and task specific.

3.13 DOT Hazardous Material Training

The Department of Transportation (DOT) requires training for employees involved in transportation of hazardous materials. Exide has a training program in place for employees who:

- load and unload hazardous materials;
- mark containers used in transporting hazardous materials;
- prepare hazardous materials for transporting;
- prepare shipping papers;
- are responsible for the safe transporting of hazardous materials;
- operate a vehicle transporting hazardous materials.

The training covers general awareness of Hazardous Material Regulations and is also function specific, describing specific requirements for each task (loading, labeling, etc.). The training is conducted initially when an employee begins working in a job that requires DOT training. Refresher training is conducted periodically.

3.14 Other Required Training

Other training that is required for employees at the Baton Rouge smelter include sexual harassment, blood borne pathogens, heat stress, fire extinguisher use and incipient fire control, fall protection, slip trip and fall hazard avoidance, and proper lifting techniques and back protection. These topics are discussed at least once per year in the safety meetings.

4.0 RECORD KEEPING

Each employee that completes a training session signs a Training Record sheet. These sign-off sheets are used to document the training. Training records is kept on site for all current employees of the Baton Rouge smelter. The records are retained as required by Exide's Record Retention Policy. For current employees, records are retained until facility closure. Training records for former employees are kept at least 3 years from the date the employee last worked at the facility.

TABLES

TABLE 1
EXIDE BATON ROUGE
TRAINING SCHEDULE

Month	
January 1 - 15	**January 16 - 31**
Respiratory Protection	Personel Protective Equipment
February 1 - 15	**February 16 - 28**
Lock-out Tag Out	Confined Space Entry
March 1 - 15	**March 16 - 31**
Right to Know	OSHA Lead Standard
April 1 - 15	**April 16 - 30**
Forklift Training	Housekeeping
May 1 - 15	**May 16 - 31**
Heat Stress	Medical Emergencies - First Response
June 1 - 15	**June 16 - 30**
Blood Borne Pathogens	Sexual Harrassment
July 1 - 15	**July 16 - 31**
Molten Metal Safety	Machine Guarding
August 1 - 15	**August 16 - 31**
Crane and Hoist Safety	Fall Protection and Working at Heights
September 1 -15	**September 16 - 30**
Proper Lifting	Preventing Slips Trips and Falls
October 1 - 15	**October 16 - 31**
Environmental Regulations and Spill Response and Control	Emergency Contingency Plan
November 1 - 15	**November 16 - 30**
Communicating Safety	Hazwoper
December 1 - 15	**December 16 - 31**
Hearing Conservation	Fire Extinguisher Training

This is a typical training schedule. At a minimum, each topic will be presented annually. The actual order of presentation may vary based on activities at the facility.

APPENDIX A

TRAINING PROGRAMS REQUIRED ELEMENTS OUTLINE

TRAINING PROGRAM REQUIRED ELEMENTS OUTLINE

Medical Surveillance Program

Required Elements of the Program

1 Annual training, with documentation.
2 Annual review of the program.

Training Program Outline

1 Pre-employment physical and annual examinations.
2 OSHA lead, cadmium and arsenic standards.
3 Blood and air lead monitoring.
4 Medical removal protection.
5 Lead exposure training (personal hygiene and respirator use).

Lockout Tagout Program

Required Elements of the Program

1 Annual training, with documentation.
2 Annual review of the program.

Training Program Outline

1 When is lockout tagout required.
2 Types of stored energy (electric, mechanical, hydraulic, pneumatic, chemical, thermal, or other energy).
3 General lockout tagout procedures.
4 Lockout tagout procedures for specific equipment in the plant.
5 Procedures for outside contractors.

Confined Space Entry Program

Required Elements of the Program

1 List of entry supervisors by job title.
2 List of confined spaces.
3 Signs for all confined spaces.
4 Annual training with documentation.
5 External and internal rescue service and procedures for summoning service and prevention of unauthorized attempted rescues.
6 Annual review of the program.

Training Program Outline

1 Definition of a Confined Space.
2 Identification of Confined Spaces in the smelter.
3 Confined Space Entry Permits.
4 Pre-entry monitoring and equipment calibration.
5 Energy isolation and lockout tagout.
6 Job duties for Entrants, Attendants, and Supervisors.
7 Ventilation and respiratory protection requirements.

8 Communications.

Hearing Conservation Program

Required Elements of the Program

1 Conduct on-site noise monitoring using personal noise dosimetry on a periodic basis.
2 Post warning signs in high noise areas.
3 Audiometric testing, baseline and annual.
4 Annual training, with documentation.
5 Annual review of the program.

Training Program Outline

1 Identifying hearing protection areas.
2 Types of hearing protection.
3 Proper fit and use of hearing protection.

Respiratory Protection Program

Required Elements of the Program

1 Annual training, with documentation.
2 Annual review of the program.

Training Program Outline

1 Required areas for respirator use.
2 Respirator selection and limitations.
3 Fit testing requirements and procedures.
4 Proper use.
5 Respirator care and maintenance.

Powered Industrial Truck Safety Program

Required Elements of the Program

1 Initial training, both classroom and driving with certification.
2 Refresher training every three years.

Training Program Outline

1 Pre-operation inspections.
2 Operating procedures.
3 Safety Rules.
4 Preventive Maintenance.

Hazard Communication Program

Required Elements of the Program

1 Annual training, with certification.
2 Annual review of the program.

TRAINING PROGRAM REQUIRED ELEMENTS OUTLINE

Training Program Outline

1 Chemical inventory.
2 MSDS binders.
3 Physical and health hazards of chemical used in specific work areas.
4 Proper labeling, handling and storage of chemicals.

Baton Rouge Contingency Plan

Required Elements of the Program

1 Annual training, with documentation.
2 Annual review of the program.
3 Update plan when there is a change in facility operations, personnel, emergency equipment or emergency procedures.

Training Program Outline

1 Contingency Plan officers and duties.
2 Alarm system.
3 Emergency response procedures.
4 Fire drills.
5 Assembly areas.

Spill Response and Environmental Regulations

Required Elements of the Program

1 Annual training, with documentation.
2 Annual review of the SPCC plan.

Training Program Outline

1 Spill prevention and control measure.
2 Regulatory agencies and programs that affect operations at the smelter.
3 Job and task specific environmental requirements.

Work Practice Training Program

Required Elements of the Program

1 Annual training, with documentation.
2 Periodic updates of the JTA system.

Training Program Outline

1 Job Task Analysis.
2 Video exposure monitoring.
3 Safety procedures for molten metal.
4 Chemical handling procedures.
5 Job specific safety procedures.

TRAINING PROGRAM REQUIRED ELEMENTS OUTLINE

DOT Hazardous Material Training

Required Elements of the Program

1 Annual training, with documentation.

Training Program Outline

1 Loading and unloading hazardous materials.
2 Proper labeling, packaging and shipping rules.
3 Shipping papers (bill of lading, manifests).

HAZWOPER 8-Hour Training

Required Elements of the Program

1 Annual training, with documentation.

Coarse Outline

1 Exide's Health and Safety Program: Required PPE, Respiratory Protection, Site Characterization, Lock-Out Tag-Out Program, Confined Space Entry Program and Hearing Conservation Program.

2 HazCom: Labeling, Signs, MSDS System, Site Specific Chemical Hazards, Biological Hazards, Physical Hazards and Molten Material Handling.

3 Medical Surveillance Program: Blood Lead, Arsenic and Cadmium, Air Lead, Video Exposure Monitoring and Exposure Limits.

4 Decontamination and Hygiene Program: Personal Hygiene, Vehicle Decontamination, Water Treatment, Fugitive Dust Control Measures (Road Sweeper, Area Cleanup).

5 Material Handling Program: Drum Handling, Chemical Handling, Upkeep of the Chemical Warehouse and Phosphorus Building, Lead Handling, Handling and Emergency Response for Compressed Gas Cylinders, Oxygen Storage Tanks and Fuel Tanks, Housekeeping.

6 Emergency Response: Baton Rouge Contingency Plan, Alarm System, First Responder Training Fire Extinguisher Use/Location and Utility Disconnects.

7 Unit Specific Hazards: Production, Casting, Battery Breaker, Slag Crusher, Yard, Baghouse, Water Treatment, Shop.

8 Review and Test.

JOB DESCRIPTION

JOB TITLE: REFINERY SUPERVISOR

FUNCTION: SUPERVISE THE REFINERY OPERATIONS.

TECHNICAL REQUIREMENTS: MUST HAVE SEVERAL YEARS EXPERIENCE AS A REFINERY OPERATOR, KNOW REFINERY OPERATIONS COMPLETELY AND HAVE A HIGH DEGREE OF MECHANICAL APTITUDE.

TRAINING: TRAINING WILL INCLUDE, BASIC ENVIRONMENTAL REGULATIONS, CHEMICAL HANDLING, CONTINGENCY PLAN, LEAD SMELTING AND RECYCLING, PROPER CLEANUP PROCEDURES, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Understand and oversee all phases of refinery operations.
- Must direct and supervise all maintenance work incidental to the furnace operations.
- Order and maintain an inventory of all chemicals needed for the refinery operations.
- Coordinate with Raw Materials Manager to ensure that the refinery produces all of the required lead products requested by customers.
- Maintain good housekeeping in the refinery area, the chemical warehouse and the lead storage warehouse.
- Train, instruct and supervise new refinery operators.
- Must follow all of Exide's safety rules and practices, and be sure that all of the refinery operators and crews are following safety practices.

JOB DESCRIPTION

JOB TITLE: REFINERY OPERATOR

FUNCTION: PERFORM ALL TASKS ASSOCIATE WITH THE REFINERY OPERATIONS.

TECHNICAL REQUIREMENTS: MUST HAVE SEVERAL YEARS EXPERIENCE IN THE REFINING OF LEAD AND LEAD ALLOYS, MUST BE KNOWLEDGEABLE OF CHEMICAL ADDITIVES REQUIRED TO PRODUCE QUALITY LEAD AND LEAD ALLOY.

TRAINING: TRAINING WILL INCLUDE, BASIC ENVIRONMENTAL REGULATIONS, CHEMICAL HANDLING, CONTINGENCY PLAN, LEAD SMELTING AND RECYCLING, PROPER CLEANUP PROCEDURES, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Conduct and supervise the refinery and casting operations.
- Coordinate with the laboratory staff to ensure proper chemical analysis of refinery produces.
- Conduct and supervise housekeeping in the refinery area, the chemical warehouse and the lead storage warehouse.
- Help to train new refinery and casting personnel.
- Must follow all of Exide's safety rules and practices.

JOB DESCRIPTION

JOB TITLE: CASTER

FUNCTION: PERFORM ALL TASKS REQUIRED BY THE REFINERY OPERATOR FOR THE PRODUCTION OF LEAD AND LEAD ALLOYS.

TECHNICAL REQUIREMENTS: ON THE JOB TRAINING, MOBILE EQUIPMENT OPERATIONS AND SOME BASIC MECHANICAL APTITUDE.

TRAINING: TRAINING WILL INCLUDE, BASIC ENVIRONMENTAL REGULATIONS, CHEMICAL HANDLING, CONTINGENCY PLAN, LEAD SMELTING AND RECYCLING, PROPER CLEANUP PROCEDURES, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Must follow instructions of the refinery operator or refinery foreman.
- Perform routine maintenance work.
- Maintain good housekeeping of the work area.
- Must follow all of Exide's safety rules and practices.

JOB DESCRIPTION

JOB TITLE: LABORATORY TECHNICIAN

FUNCTION: PERFORM ALL TASKS ASSOCIATED WITH ALL THE LABORATORY OPERATIONS.

TECHNICAL REQUIREMENTS: BASIC UNDERSTANDING OF CHEMISTRY, LEAD SMELTING, REFINING AND INSTRUMENTATION.

TRAINING: TRAINING WILL INCLUDE, BASIC ENVIRONMENTAL REGULATIONS, CHEMICAL HANDLING, CONTINGENCY PLAN, PROPER CLEANUP PROCEDURES, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Log in all samples received by the lab.
- Analyze samples and prepare analysis forms.
- Take inventory and order chemicals and reagents as needed.
- Perform routine maintenance work.
- Maintain good housekeeping in the lab.
- Must follow all of Exide's safety rules and practices.

JOB DESCRIPTION

JOB TITLE: FURNACE SUPERVISOR

FUNCTION: SUPERVISE THE OPERATIONS OF THE SMELTERS TWO BLAST FURNACES AND ONE REVERBATORY FURNACE.

TECHNICAL REQUIREMENTS: MUST HAVE SEVERAL YEARS EXPERIENCE IN FURNACE OPERATIONS, KNOW FURNACE OPERATIONS COMPLETELY AND HAVE A HIGH DEGREE OF MECHANICAL APTITUDE.

TRAINING: TRAINING WILL INCLUDE, BASIC ENVIRONMENTAL REGULATIONS, CHEMICAL HANDLING, CONTINGENCY PLAN, LEAD SMELTING AND RECYCLING, PROPER CLEANUP PROCEDURES, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Understand and oversee all phases of furnace operations including:
  - Ensuring each furnace is properly charged,
  - Checking that no smoke is allowed to escape from the hoods,
  - Ensuring that proper startup and shut-down procedures are followed and documented,
  - Maintain furnace feed rations, to allow for consistent operations.
- Must direct and supervise all work incidental to the furnace operations.
- Work with the baghouse crew to ensure proper ventilation.
- Train, instruct and supervise new furnace operators and helpers.
- Must follow all of Exide's safety rules and practices, and be sure that all of the furnace operators and crews are following safety practices.

JOB DESCRIPTION

JOB TITLE: FURNACE OPERATOR

FUNCTION: OPERATE THE BLAST FURNACE OR THE REVERBATORY FURNACE.

TECHNICAL REQUIREMENTS: MUST HAVE EXPERIENCE IN FURNACE OPERATIONS, METALLURGY, CHARGING AND HAVE A HIGH DEGREE OF MECHANICAL APTITUDE.

TRAINING: TRAINING WILL INCLUDE BASIC ENVIRONMENTAL REGULATIONS, CHEMICAL HANDLING, CONTINGENCY PLAN, LEAD SMELTING AND RECYCLING, PROPER CLEANUP PROCEDURES, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Direct all functions required to set up and operate the furnace.
- Work with the baghouse crew to ensure proper ventilation.
- Train and instruct new furnace operators.
- Must follow all of Exide's safety rules and practices.

JOB DESCRIPTION

JOB TITLE: FURNACE HELPER

FUNCTION: ASSIST IN THE OPERATION OF THE BLAST FURNACE OR THE REVERBATORY FURNACE.

TECHNICAL REQUIREMENTS: MUST HAVE EXPERIENCE IN FURNACE OPERATIONS, AND HAVE A HIGH DEGREE OF MECHANICAL APTITUDE.

TRAINING: TRAINING WILL INCLUDE BASIC ENVIRONMENTAL REGULATIONS, CHEMICAL HANDLING, CONTINGENCY PLAN, LEAD SMELTING AND RECYCLING, PROPER CLEANUP PROCEDURES, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Assist the Furnace Operator in set up and operation the furnace.
- Perform routine maintenance.
- Must follow all of Exide's safety rules and practices.

JOB DESCRIPTION

JOB TITLE: WASTEWASTE TREATMENT PLANT OPERATOR

FUNCTION: MAINTAIN THE WASTEWATER TREATMENT PLANT TO ENSURE OPERATIONS WITHIN THE PERMITTED PARAMETERS.

TECHNICAL REQUIREMENTS: MUST HAVE SEVERAL YEARS EXPERIENCE IN TREATMENT PLANT OPERATIONS, WATER AND ACID CHEMISTRY, AND EQUIPMENT MAINTENANCE.

TRAINING: TRAINING WILL INCLUDE BASIC ENVIRONMENTAL REGULATIONS, CHEMICAL HANDLING, CONTINGENCY PLAN, pH CALIBRATION AND MONITORING, PROPER CLEANUP PROCEDURES, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Must be able to operate all of the equipment used in the wastewater treatment plant.
- Must be familiar with all of the monitoring procedures and instrumentation used in the treatment plant.
- Is responsible for control of chemical dosing and monitoring, to maintain the treatment plant operations within the permitted specifications.
- Is responsible for all operations and maintenance of equipment.
- Must follow all of Exide's safety rules and practices.

JOB DESCRIPTION

JOB TITLE: WASTEWATER TREATMENT PLANT SUPERVISOR

FUNCTION: SUPERVISE THE WASTEWATER TREATMENT PLANT TO ENSURE OPERATIONS WITHIN THE PERMITTED PARAMETERS.

TECHNICAL REQUIREMENTS: MUST HAVE SEVERAL YEARS EXPERIENCE AS A TREATMENT PLANT OPERATOR, MUST HAVE A HIGH DEGREE OF TECHNICAL APTITUDE, MUST BE ABLE TO PERFORM MAINTENANCE ON ALL EQUIPMENT IN THE TREATMENT PLANT, MUST BE ABLE TO TREAT WATER TO ACCEPTABLE STANDARDS.

TRAINING: TRAINING WILL INCLUDE BASIC ENVIRONMENTAL REGULATIONS, CHEMICAL HANDLING, CONTINGENCY PLAN, pH CALIBRATION AND MONITORING, PROPER CLEANUP PROCEDURES, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Direct and supervise all work in the wastewater treatment plant.
- Maintain inventory of supplies equipment and chemicals needed for wastewater treatment operations.
- Direct maintenance of all treatment plant equipment.
- Ensure proper documentation procedures are followed.
- Must be able to operate all of the equipment used in the wastewater treatment plant.
- Is responsible for control of chemical dosing and monitoring, to maintain the treatment plant operations within the permitted specifications.
- Train, instruct and supervise new employees at water treatment.
- Must follow all of Exide's safety rules and practices, and be sure that all of the treatment plant operators are following safety practices.

JOB DESCRIPTION

JOB TITLE: BAGHOUSE OPERATOR

FUNCTION: MAINTAIN THE BAGHOUSES TO ENSURE OPERATIONS WITHIN THE PERMITTED PARAMETERS.

TECHNICAL REQUIREMENTS: MUST HAVE SEVERAL YEARS EXPERIENCE IN BAGHOUSE OPERATIONS, AND EQUIPMENT MAINTENANCE.

TRAINING: TRAINING WILL INCLUDE BASIC ENVIRONMENTAL REGULATIONS, BAG HANDLING, BAGHOUSE CLEANUP PROCEDURES, CONTINGENCY PLAN AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Must be able to operate all of the equipment used in the baghouses.
- Must be familiar with the continuous emissions monitoring system used in the baghouses.
- Must monitor and maintain furnace and kettle floor draft controls.
- Must monitor and document temperature, pressure, blower amps, and flows in the baghouses on a daily basis.
- Must check and document the condition of the baghouse interiors on a weekly basis.
- Must check and document shaker mechanism, isolation dampers, bag tension and fans, on a monthly basis.
- Must check and document the baghouse sprinkle system monthly.
- Must change bags when necessary.
- Must assist dust reverbatory furnace operator.
- Must follow all of Exide's safety rules and practices.

JOB DESCRIPTION

JOB TITLE: BAGHOUSE SUPERVISOR

FUNCTION: SUPERVISE THE FIVE BAGHOUSES TO ENSURE OPERATIONS WITHIN THE PERMITTED PARAMETERS.

TECHNICAL REQUIREMENTS: MUST HAVE SEVERAL YEARS EXPERIENCE AS A BAGHOUSE OPERATOR, MUST HAVE A HIGH DEGREE OF TECHNICAL APTITUDE, MUST KNOW BAGHOUSE OPERATIONS COMPLETELY.

TRAINING: TRAINING WILL INCLUDE BASIC ENVIRONMENTAL REGULATIONS, BAG HANDLING, BAGHOUSE CLEANUP PROCEDURES, CONTINGENCY PLAN AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Direct and supervise all work in the five facility baghouses.
- Review and submit all daily, weekly, and monthly baghouse checklists.
- Direct maintenance at all of the baghouses.
- Ensure proper documentation procedures are followed.
- Responsible for ordering all supplies necessary for the baghouses.
- Must coordinate with furnace operators and shift foreman to ensure that proper drafts are maintained.
- Supervise and assist the dust reverbatory furnace operator.
- Train, instruct and supervise new employees in the baghouse crew.
- Must follow all of Exide's safety rules and practices, and be sure that all of the baghouse operators are following safety practices.

JOB DESCRIPTION

JOB TITLE: DUST REVERBATORY FURNACE OPERATOR

FUNCTION: OPERATE ONE OF THE TWO DUST REVERBATORY FURNACES.

TECHNICAL REQUIREMENTS: MUST HAVE SEVERAL YEARS EXPERIENCE AS AN OPERATOR, MUST HAVE A HIGH DEGREE OF TECHNICAL APTITUDE, MUST KNOW THE BASIC ELEMENTS OF BAGHOUSE OPERATIONS.

TRAINING: TRAINING WILL INCLUDE BASIC ENVIRONMENTAL REGULATIONS, CONTINGENCY PLAN, FURNACE OPERATIONS, CLEANUP PROCEDURES, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Operate one of the two dust reverbatory furnaces in a safe and environmentally sound manner.
- Complete daily documentation of activities.
- Perform preventive maintenance of the furnaces.
- Assist baghouse crew in maintenance and upkeep of the baghouses.
- Must follow all of Exide's safety rules and practices.

JOB DESCRIPTION

JOB TITLE: SLAG STABILIZATION OPERATOR

FUNCTION: OPERATE THE SLAG STABILIZATION UNIT WITHIN THE PERMITTED PARAMETERS.

TECHNICAL REQUIREMENTS: MUST HAVE SEVERAL YEARS EXPERIENCE OPERATING THE SLAG STABILIZATION UNIT, MUST BE A MOBILE EQUIPMENT OPERATOR AND HAVE EXPERIENCE WITH EQUIPMENT MAINTENANCE.

TRAINING: TRAINING WILL INCLUDE BASIC ENVIRONMENTAL REGULATIONS, CONTINGENCY PLAN SLAG HANDLING, CLEANUP PROCEDURES, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Must be able to operate all of the equipment used at the slag stabilization unit in a safe and environmentally sound manner.
- Must be familiar with the landfill operations and requirements.
- Must be able to sort slag to ensure that only blast furnace slag is processed.
- Must maintain good housekeeping in the area.
- Must follow all of Exide's safety rules and practices.

JOB DESCRIPTION

JOB TITLE: SLAG STABILIZATION SUPERVISOR

FUNCTION: SUPERVISE THE SLAG STABILIZATION PROCESS AND PERSONNEL TO ENSURE OPERATIONS WITHIN THE PERMITTED PARAMETERS.

TECHNICAL REQUIREMENTS: MUST HAVE SEVERAL YEARS EXPERIENCE AS A SLAG STABILIZATION OPERATOR, MUST HAVE A HIGH DEGREE OF TECHNICAL APTITUDE, MUST KNOW STABILIZATION OPERATIONS COMPLETELY.

TRAINING: TRAINING WILL INCLUDE BASIC ENVIRONMENTAL REGULATIONS, CONTINGENCY PLAN HAZARDOUS MATERIAL HANDLING, LANDFILL OPERATIONS, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Direct and supervise all work at the slag stabilization unit.
- Complete daily slag stabilization reports.
- Direct all maintenance of the slag stabilization unit.
- Ensure the vehicles receive proper preventive maintenance and care.
- Responsible for ordering all supplies and chemicals necessary for the operation.
- Train, instruct and supervise new employees in the slag stabilization crew.
- Must follow all of Exide's safety rules and practices, and be sure that all of the slag crew is following safety practices.

JOB DESCRIPTION

JOB TITLE: YARD MAN

FUNCTION: PERFORM TASKS ASSOCIATED WITH ALL PHASES OF THE YARD OPERATIONS.

TECHNICAL REQUIREMENTS: MUST BE A MOBILE EQUIPMENT OPERATOR AND HAVE EXPERIENCE HANDLING, SHIPPING AND RECEIVING PRODUCTS.

TRAINING: TRAINING WILL INCLUDE BASIC ENVIRONMENTAL REGULATIONS, CONTINGENCY PLAN, INCOMING HAZARDOUS MATERIAL HANDLING, CLEANUP PROCEDURES, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Load produced lead for shipment.
- Unload lead-bearing materials (including hazardous materials) for recycling.
- Load sodium sulfate salt for shipment.
- Unload coke for blast furnace operations.
- Must maintain good housekeeping in the area.
- Must follow all of Exide's safety rules and practices.

JOB DESCRIPTION

JOB TITLE: YARD FOREMAN

FUNCTION: SUPERVISE THE YARD OPERATION AND PERSONNEL.

TECHNICAL REQUIREMENTS: MUST HAVE SEVERAL YEARS EXPERIENCE WORKING IN THE YARD, MUST HAVE A HIGH DEGREE OF MECHANICAL APTITUDE.

TRAINING: TRAINING WILL INCLUDE BASIC ENVIRONMENTAL REGULATIONS, CONTINGENCY PLAN, HAZARDOUS MATERIAL HANDLING, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Direct and supervise all work incidental to the yard department operation including personnel and maintenance of equipment.
- Order supplies used by the yard crew.
- Monitor truck traffic and speed limits in and out of the smelter.
- Supervise loading of products and unloading of incoming materials and supplies.
- Train, instruct and supervise new employees on the yard crew.
- Must follow all of Exide's safety rules and practices, and be sure that all of the yard crew is following safety practices.

JOB DESCRIPTION

JOB TITLE: CX BATTERY BREAKER SUPERVISOR

FUNCTION: SUPERVISE THE BATTERY BREAKER OPERATION AND PERSONNEL.

TECHNICAL REQUIREMENTS: MUST HAVE EXPERIENCE WORKING IN THE BATTERY BREAKER UNIT, MUST HAVE A HIGH DEGREE OF MECHANICAL APTITUDE AND CHEMICAL KNOWLEDGE.

TRAINING: TRAINING WILL INCLUDE BASIC ENVIRONMENTAL REGULATIONS, CONTINGENCY PLAN, CHEMICAL HANDLING, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Direct and supervise all work at the battery breaker operation including personnel and maintenance of equipment.
- Inventory and order any supplies, chemicals and equipment necessary for the operation of the unit.
- Monitor the unloading dock to be sure that enough batteries are available and stored properly.
- Supervise the breaker unit operations including monitoring all of the neutralization, desulfurization and crystallization procedures.
- Ensure that samples are collected following the proper procedures and frequencies.
- Complete proper documentation of activities.
- Train, instruct and supervise new employees on the battery breaker crew.
- Must follow all of Exide's safety rules and practices, and be sure that all of the battery breaker crew is following safety practices.

JOB DESCRIPTION

JOB TITLE: CX BATTERY BREAKER OPERATOR

FUNCTION: CONTROL AND OPERATE THE CX BATTERY BREAKER UNIT.

TECHNICAL REQUIREMENTS: MUST COMPLETE OPERATOR TRAINING AT THE BATTERY BREAKER UNIT, MUST HAVE A HIGH DEGREE OF MECHANICAL APTITUDE AND CHEMICAL KNOWLEDGE.

TRAINING: TRAINING WILL INCLUDE BASIC ENVIRONMENTAL REGULATIONS, CONTINGENCY PLAN, CHEMICAL HANDLING, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Perform all work incidental to the battery breaker operation.
- Monitor the performance of the unit.
- Perform routine and preventive maintenance.
- Calibrate and adjust meters.
- Collect all of the required samples.
- Train, instruct and supervise new employees on the yard crew.
- Must follow all of Exide's safety rules and practices.

JOB DESCRIPTION

JOB TITLE: CX BATTERY BREAKER DOCK LEADER

FUNCTION: SUPERVISE THE LOADING DOCK AT THE CX BATTERY BREAKER UNIT.

TECHNICAL REQUIREMENTS: MUST HAVE EXPERIENCE WORKING AT THE BATTERY BREAKER DOCK, MUST BE A MOBIL EQUIPMENT OPERATOR.

TRAINING: TRAINING WILL INCLUDE BASIC ENVIRONMENTAL REGULATIONS, CONTINGENCY PLAN, CHEMICAL (BATTERY) HANDLING, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Direct and supervise the work at the dock including personnel and maintenance of equipment.
- Be sure that the unit has a steady supply of batteries.
- Monitor truck traffic in and out of the dock.
- Supervise unloading of batteries to ensure that incompatible materials are not feed into the unit.
- Train, instruct and supervise new employees on the dock crew.
- Must follow all of Exide's safety rules and practices.

JOB DESCRIPTION

JOB TITLE: CX BATTERY BREAKER DOCK CREW

FUNCTION: UNLOAD BATTERIES AT THE DOCK AND FEED THEM INTO THE CX BATTERY BREAKER UNIT.

TECHNICAL REQUIREMENTS: MUST BE A MOBIL EQUIPMENT OPERATOR AND HAVE A HIGH DEGREE OF MECHANICAL APTITUDE.

TRAINING: TRAINING WILL INCLUDE BASIC ENVIRONMENTAL REGULATIONS, CONTINGENCY PLAN, CHEMICAL (BATTERY) HANDLING, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Unload batteries from trucks onto the dock.
- Remove the shrink wrap and cardboard from the batteries.
- Inspect batteries to insure that they are compatible.
- Load batteries into the unit.
- Must follow all of Exide's safety rules and practices.

JOB DESCRIPTION

JOB TITLE: MECHANIC

FUNCTION: REPAIR AND UP-KEEP OF ALL PLANT EQUIPMENT, VEHICLES AND SYSTEMS.

TECHNICAL REQUIREMENTS: HIGH DEGREE OF MECHANICAL APTITUDE.

TRAINING: TRAINING WILL INCLUDE BASIC ENVIRONMENTAL REGULATIONS, CONTINGENCY PLAN, CHEMICAL HANDLING, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Inspect, maintain and repair all of the plant mobile equipment (sweeper, forklifts, scoops, backhoe and dump trucks).
- Install, maintain, troubleshoot and repair pumps, conveyors, gearboxes, and hydraulic systems.
- Install, maintain and repair all piping in the plant.
- Install, maintain and repair valves, hoses, fittings, bearing, gages and meters.
- Operate mobile equipment.
- Must follow all of Exide's safety rules and practices.

JOB DESCRIPTION

JOB TITLE: ELECTRICIAN

FUNCTION: REPAIR AND MAINTAIN ALL OF THE PLANT ELECTRICAL SYSTEMS.

TECHNICAL REQUIREMENTS: HIGH DEGREE OF ELECTRICAL KNOWLEDGE AND MECHANICAL APTITUDE.

TRAINING: TRAINING WILL INCLUDE BASIC ENVIRONMENTAL REGULATIONS, CONTINGENCY PLAN, CHEMICAL HANDLING, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Repair all of the plant electrical systems.
- Work with plant engineers on the installation of new electrical systems.
- Inspect and calibrate equipment.
- Maintain inventory and order electrical supplies and equipment.
- Operate mobile equipment.
- Must follow all of Exide's safety rules and practices.

JOB DESCRIPTION

JOB TITLE: WELDER

FUNCTION: REPAIR AND UPKEEP OF ALL OF THE PLANT METAL SURFACES.

TECHNICAL REQUIREMENTS: WELDING EXPERIENCE AND MECHANICAL APTITUDE.

TRAINING: TRAINING WILL INCLUDE BASIC ENVIRONMENTAL REGULATIONS, CONTINGENCY PLAN, CHEMICAL HANDLING, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Weld and repair all metal units including baghouses, blast furnaces, reverbatory furnace, dust reverb furnaces, slag crusher, battery breaker, casting machines and refinery kettles.
- Repair all metal flue pipes, water lines, tanks, and screw conveyors.
- Assist mechanic with repair and upkeep of plant equipment.
- Fabricate equipment and parts.
- Maintain an inventory of welding supplies and order supplies and equipment when needed.
- Operate mobile equipment.
- Must follow all of Exide's safety rules and practices.

JOB DESCRIPTION

JOB TITLE: CHANGE HOUSE, LUNCHROOM AND RESPIRATOR MAINTENANCE OPERATOR

FUNCTION: PERFORM TASK ASSOCIATED WITH MAINTAINING RESPIRATORS, CLEANING THE CHANGE HOUSE AND THE LUNCHROOM.

TECHNICAL REQUIREMENTS: MUST BE ABLE TO FOLLOW SPECIFIC PROCEDURES AND CLEANING INSTRUCTIONS.

TRAINING: TRAINING WILL INCLUDE BASIC ENVIRONMENTAL REGULATIONS, CONTINGENCY PLAN, CHEMICAL HANDLING, PROPER CLEAN-UP PROCEDURES, AND ALL EXIDE SAFETY PROCEDURES INCLUDING LOCKOUT TAG-OUT, CONFINED SPACE ENTRY, RIGHT-TO-KNOW, BLOOD LEAD MONITORING, RESPIRATORY PROTECTION, AND MSDS.

DUTIES AND RESPONSIBILITIES:

- Clean and repair respirators daily.
- Supervise and conduct cleaning of the change house and the lunchroom daily.
- Issue all of the required personal protective equipment.
- Wash, dry and sort work clothes, coveralls, and associated clothing daily.
- Maintain an inventory of supplies and order supplies and equipment when needed.
- Must follow all of Exide's safety rules and practices.

RESPONSE
ATTACHMENT A14
(Figure 1 and 3 only)
SPCC PLAN

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W E
S

LEGEND:

- CONTOUR
- APPROXIMATE SITE BOUNDARY
- WELL LOCATION

NOTES:

1. AERIAL PHOTOGRAPHY AND TOPOGRAPHY BY GULF COAST AERIAL MAPPING MAY 2003.
2. SITE BOUNDARY FROM MAY 1991 SURVEY PERFORMED BY MJ DERIEUX AND ASSOCIATES INC. (BATON ROUGE) AND SEPTEMBER 18, 1996 SURVEY BY TOTTE AND TABLADA, INC (BATON ROUGE).
3. WELL LOCATIONS FROM LOUISIANA DEPARTMENT OF TRANSPORTATION, PUBLIC WORKS AND WATER RESOURCES DIVISION WATER RESOURCES SECTION.

SCALE IN FEET
2' CONTOUR INTERVAL

EXIDE TECHNOLOGIES

BATON ROUGE, LOUISIANA

Date	1" = 200'
Drawn By	M.D.L.
Chk'd By	
Date	9.9.03
Drawn By	M.D.L.
Chk'd By	
Date	10.9.03
Job No.	2003-1058-02
Job No.	2003-1058-24-22
Date	OCT 20 2003

200 SCALE TOPOGRAPHIC MAP
(WITHIN 1,000 ft.)

Advanced GeoServices Corp.
1056 Andrew Drive, Suite A
West Chester, Pennsylvania 19380
(610) 843-9130
FAX: (610) 843-9159

FIGURE:
1

RESPONSE
ATTACHMENT A15

APPENDIX 15

WASTE MINIMIZATION PLAN

WASTE MINIMIZATION PLAN

EXIDE TECHNOLOGIES
BATON ROUGE SMELTER
BATON ROUGE, LOUISIANA

EPA ID NUMBER: LAD 008184137

October 2005

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TABLE 1 – WASTE GENERATED BY THE BATON ROUGE SMELTER

1.0 INTRODUCTION

Exide Technologies (Exide) is committed to managing wastes generated by the Baton Rouge Smelter in an environmentally sound manner. As a part of the overall environmental policy, Exide is focusing efforts to reduce the amount of waste material generated by implementing an effective waste minimization program. The goal of Exide's Waste Minimization Plan is to significantly reduce the amount of waste that is generated and disposed of from the Baton Rouge Smelter. Meeting this goal will help to reduce operating costs, limit potential liabilities and strengthen the Baton Rouge Smelter's public image of concern for improving the environment and it's employee's work place. Exide's management is in full support of this waste minimization program.

Waste minimization is the reduction of wastes generated, by one of two main methods, source reduction and recycling. Source reduction is the reduction or elimination of waste at the source, usually within the process. Recycling is the use or reuse of a waste as an effective substitute for a commercial product or as an ingredient or feedstock in an industrial process. Additional waste minimization practices include inventory controls, reclassification of wastes, waste segregation, spill control and good housekeeping practices.

This Waste Minimization Plan outlines procedures for waste reduction and provides examples of waste minimization programs that are currently in practice at the Baton Rouge Smelter. This plan includes a description of waste minimization assessment procedures, including an initial assessment that was completed by Exide, identifying target waste streams to be reduced and setting goals for this reduction. Additionally, this plan discusses source reduction procedures, recycling procedures and additional waste reduction practices that can be incorporated at the Baton Rouge Smelter.

2.0 BACKGROUND

Exide processes lead bearing raw materials, including spent lead acid batteries, emissions control dust, sludges and by products into metallic lead for resale and reuse. Some of the raw materials used in the process and stored on site are classified as hazardous wastes by regulation. Exide was issued a Hazardous Waste Permit (LAD008184137) to operate three container storage areas (the Truck/trailer Storage area and the Whole Battery Storage area). Exide operates a Containment Building, which is currently under interim status. A hazardous waste treatment unit, the Slag Stabilization unit, is also permitted under LAD008184137.

Most of the raw materials used by the Baton Rouge smelter to produce lead are purchased off-site. The lead-bearing raw materials are delivered to the facility in trucks or trailers and are unloaded at the loading dock. If the material is classified a hazardous, it will be received under manifest, as specified in the Louisiana Department of Environmental Quality, Hazardous Waste Division Environmental Regulatory Code. Other nonhazardous and exempt materials are received under bill of lading. Some of these lead-bearing materials are received in drums. These drums will be emptied directly into a feedstock pile in the Containment Building.

Lead acid batteries are either fed directly into the battery breaker or are stored temporarily onsite in one of two permitted storage area, the truck/trailer storage area or the whole battery storage area. Lead acid batteries are processed in the battery breaker unit, by cutting the batteries, and hydraulically separating the individual components. The plastic is thoroughly washed to remove residual acid and lead. It is then loaded into trailers and shipped offsite for recycling. The battery acid, a weak sulfuric acid solution, is neutralized with sodium hydroxide and crystallized to form sodium sulfate salt. The salt is sold as a product. The lead material from the batteries is processed to convert lead sulfate to lead oxide. The lead oxide paste is then stored in the Paste Storage Area of the containment building, prior to recycling.

The facility operates one blast furnace and one reverberatory furnace that are used to smelt the lead-bearing raw materials. The molten lead is cast either into ingots using two casting machines or blocks using molds. Additionally, the facility operates a billet casting machine to produce lead billets. The finished lead is tested to determine if it meets client specifications and is then loaded into trucks and transported off-site for reuse.

As a part of the lead recycling, a blast furnace slag is generated. This slag contains mostly iron, silica and calcium oxides, with typically less than 1% lead. However, the slag is classified as a hazardous waste due to the lead content, since it typically cannot pass the TCLP analysis for lead. The slag is allowed to cool, crushed to small diameter, and treated using a mixture of cement and sodium silicate, as specified in the facilities Hazardous Waste Permit. The stabilized slag is rock-like in appearance and engineering properties. After treatment, the slag is placed in a permitted onsite Solid Waste landfill.

3.0 WASTE MINIMIZATION ASSESSMENT

In order to meet the goal of minimizing the amount of waste generated at the Baton Rouge Smelter, a comprehensive management approach to waste is necessary. The first step in this management approach was to conduct a waste minimization assessment. This assessment consisted of a waste inventory to identifying the types of waste generated at the smelter and an assessment to look at ways to reduce or eliminate this waste. The assessment reviewed plant operations and waste streams, and select specific areas as targets for waste minimization. As a part of this Waste Minimization Plan, a waste minimization assessment will be performed annually to review current waste minimization practices and develop strategies for new initiatives.

Exide has performed the initial waste minimization assessment as described above. Table 1 presents a list of wastes that are produced at the Baton Rouge Smelter. The inventory identified six hazardous waste streams. Three of the hazardous waste streams, baghouse dust, old baghouse bags and wastewater treatment plant sludges are currently recycled in the furnaces to reclaim lead content. The highest volume waste stream that is not being reused or recycled is the spent blast furnace slag. The assessment identified a number of long-range goals for minimization of the slag. The inventory also identified thirteen nonhazardous and solid waste streams. The waste assessment indicated that four of the waste streams are currently being recycled. The assessment also identified several low volume wastes generated at the Smelter, such as waste paper and wooden pallets, that might be successfully addressed for recycling over the short term.

4.0 TYPES OF WASTE MINIMIZATION PRACTICES

This section presents an overview of waste minimization practices based on EPA guidance documents on facility pollution prevention. Also included in this section is specific information about waste minimization projects that are currently incorporated at the Baton Rouge Smelter.

4.1 Source Reduction Efforts

Source reduction is the reduction or elimination of waste generated at the source, within the process. These efforts involve changing the way the chemical process actually occurs or substituting the chemicals used to create the finished product. Source reduction is the most effective method of waste minimization, but it is also potentially the most complex and expensive since it involves process changes. Source reduction methods include process changes, alternative feedstocks or raw materials, improvements in feedstock purity, increases in efficiency of machinery and recycling within the process (recycle loops).

An example of source reduction that can be employed at the Baton Rouge Smelter is the use of desulfurization of the battery plate feed material. By desulfurizing the battery plates, the slag generated from the blast furnace will typically have a lower lead content, therefore requiring less treatment prior to disposal, and reducing the volume in the landfill.

4.2 Recycling Efforts

Recycling is the use or reuse of an intermediate or byproduct (that would otherwise be discarded as a waste) as an effective substitute for a commercial product, or as an ingredient or feedstock in a process. Recycling also includes reuse of wastes or constituents of a waste. The Baton Rouge Smelter is a recycling facility that recycles spent lead acid batteries and lead-bearing material.

Many of the waste streams identified in the initial waste minimization assessment are currently being recycled, including:

- Used oil, collected from the autoshop and brought in by Exide employees. This oil is recycled by International Oil of Chalmette, Louisiana.
- Scrap metals (steel and iron) are collected and recycled through Southern Scrap Metals, Inc.
- Metal drums are processed through the blast furnace as iron flux.
- Fluorescent light bulbs are collected and recycled by Lamp Recyclers.
- All of the lead bearing waste materials generated by the Baton Rouge Smelter are recycled in the furnaces, including all of the baghouse dust generated by the five site baghouses, any old and worn baghouse bags, used tyvek suits, old respirator cartridges, and wastewater treatment plant sludge.

Exide is continuing to look for new recycling opportunities. The waste minimization assessment identified several waste steams as potential candidates for recycling, including white paper, aluminum cans and pallets.

4.3 Other Waste Minimization Practices

Other waste minimization practices include inventory controls, waste segregation, spill control and good housekeeping practices. Inventory control involves the reduction of on hand quantities of potentially dangerous chemicals. This will reduce the amount of waste that could result from spills or expired shelf-life. Waste segregation includes proper handling of wastes to avoid volume increases. Spill control and good housekeeping practices are in place to reduce the amount of waste generated by spills or process upsets. In the case of the salt generated by the battery breaker operations, reducing the amount of salt that is spilled during loading and sampling of the transport vehicles has reduced the amount of material that needed to be disposed on through an offsite disposal company. Additionally, by implementing improved spill control policies, the amount of spilled salt that is generated is small enough that it can be reintroduced into the process.

5.0 WASTE MINIMIZATION GOALS

In order to maintain a strong waste minimization program, Exide proposes to establish clear, measurable, short-range and long-range goals for waste minimization and waste reduction. The initial goal of Exide's waste minimization program was to establish a waste minimization task force. The task force is composed of the Environmental Manager, who is the chairman of the task force, the laboratory manager, the Environmental Superintendent and the Plant Superintendent.

This task force will be responsible for the implementation of the waste minimization plan and dissemination of waste minimization information to the Baton Rouge Smelter employees. The task force will meet annually to update this waste minimization plan. The task force will also be responsible for setting and revising plan goals. The waste minimization goals are outlined below.

5.1 One Year Goals

The one-year goals include:

- Establishing a recycling program for aluminum cans, white paper and cardboard.
- Continue to evaluate long term recycling and source reduction opportunities.
- Joining the Louisiana Environmental Leadership Pollution Prevention Program, a joint effort by LDEQ and Louisiana industries to promote waste minimization.

5.2 Two to Five Year Goals

The two to five year goals include:

- Installing an oil/water separator in the waste oil tank, increasing the amount of usable material that is sold to International Oil Services.
- Establishing a program that recycles wooden pallets.

5.3 Long Range Goals

Exide's long range waste minimization goals include:

- Reduce the volume of onsite disposal of stabilized blast furnace slag.
- Continuous evaluation of waste minimization methods to significantly decrease the amount of other waste generated at the Baton Rouge Smelter.

5.4 Training

Waste minimization training will be conducted as a part of Exide's Environmental Training Program. Training will include discussion of waste minimization goals, proper material handling and placement, and continued evaluation of waste reduction strategies.

6.0 CONCLUSIONS

The goals presented in this Waste Minimization Plan are designed to significantly reduce the amount of waste that is generated and disposed of from the Baton Rouge Smelter. Waste minimization will improve profitability and reduce regulatory compliance cost, liability and risk. By reducing the amount of waste generated at the Baton Rouge Smelter, Exide will achieve improved protection of the environment and provide a healthier work place for the employees. Exide has already made strides in reducing wastes; however, new and innovative waste reduction methods are still necessary to meet the goal of this plan. Meeting the goal of waste minimization is the responsibility of each employee and must become an accepted part of the day to day plant operations.

This Waste Minimization Plan will be reviewed annually, by the waste minimization task force and will be updated as necessary.

TABLES

TABLE 1

WASTE GENERATED BY THE BATON ROUGE SMELTER

TYPE OF WASTE	GENERATING DEPARTMENT	PROPER PLACEMENT
HAZARDOUS WASTE		
1) Baghouse Dust	Baghouse Crew	Recycle - Furnace
2) Old Baghouse Bags	Baghouse Crew	Recycle - Furnace
3) Wastewater Treatment Plant Sludge	Wastewater Treatment	Recycle - Furnace
4) Spent Refractory Brick	Production	Waste Management
5) Blast Furnace Slag	Production	Stabilize, Onsite Landfill
SOLID and NONHAZARDOUS WASTE		
1) Lunch Room Trash	All Departments	IWS Dumpster
2) Cardboard and Shrink Warp	Battery Breaker	IWS Hopper
3) Wooden Pallets	Battery Breaker	Shredder or Recycle
4) Tyvek Suits	All Departments	Recycle - Furnace
5) Office Trash	Office	IWS Dumpster
6) Fluorescent Light Bulbs	Electrical	Recycle
7) Empty 55-Gallon Drums	Dock	Wash and Recycle
8) Scrap Steel and Iron	All Departments	Recycle
9) Scrap PVC Pipe	Maintenance	IWS Hopper
10) Construction Debris	All Departments	Onsite Landfill
11) Off-Spec Salt	Battery Breaker	BFI Landfill
12) Expired or Unused Chemicals	Laboratory	Furnace (if there is potential for lead recovery) or Lab Pack (if there is no potential for lead recovery)
13) Parts Washing Solvents	Maintenance	Safety-Kleen
14) Used Oil	Maintenance	International Petroleum
15) Scrap Tires	Maintenance	Commercial Tire

RESPONSE
ATTACHMENT A17

APPENDIX 17

PHOTOGRAPHS

Post-Closure Hazardous Waste Pile #2

Post-Closure Hazardous Waste Pile #1

Closed Solid Waste Landfill

RESPONSE
ATTACHMENT A21

APPENDIX 21

DOCUMENTATION FOR NO HISTORICAL OR ECOLOGICAL IMPACTS

ADVANCED GEOSERVICES CORP. *"Engineering for the Environment"™*

1055 Andrew Drive, Suite A
West Chester, PA 19380-4293
(610) 840-9100 Fax (610) 840-9199
www.agcinfo.com

July 7, 2005 2003-1058-03

Date: 7-22-05
No known archaeological sites or historic properties will be affected by this undertaking. This effect determination could change should new information come to our attention.
Pam Breaux: Pam Breaux
State Historic Preservation Officer

Ms. Rachel Watson
Louisiana Division of Archaeology
P. O. Box 44247
Baton Rouge, LA 70804

RE: Exide Technologies, Baton Rouge, Louisiana
Request for Confirmation

Dear Ms. Watson:

Advanced GeoServices Corp. (AGC), on behalf of Exide Technologies (Exide), requests a letter of confirmation regarding the following matter. Exide operates a secondary lead smelter at 2400 Brooklawn Drive in Baton Rouge, East Baton Rouge Parish, Louisiana.

In accordance with the Louisiana Hazardous Waste Regulations, specifically LAC 33:V.517.5.a, applicants for Hazardous Waste Permits must provide a list of all known historic sites, recreational areas, archaeological sites, designated wildlife-management areas, swamps and marshes, habitats for endangered species, and other sensitive ecological areas within 1,000 feet of the facility perimeter or as otherwise appropriate.

According to our information, there currently exists no such designated areas for which your agency maintains records within 1,000 feet of the site. The site location is identified on the attached vicinity map.

If our information is consistent with that of your Department, we request a confirmatory statement to the fact. If such sensitive ecological areas do exist, contrary to our information, please so indicate.

Should you have any questions or require further information, please feel free to contact me at (610) 840-9189.

Sincerely,

ADVANCED GEOSERVICES CORP.

Jen DiJoseph

Jennifer W. DiJoseph
Project Professional

JWD:vm

Enclosure

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State of Louisiana

KATHLEEN BABINEAUX BLANCO
GOVERNOR

DEPARTMENT OF WILDLIFE AND FISHERIES

DWIGHT LANDRENEAU
SECRETARY

Name	Jennifer W. DiJoseph
Company	Advanced GeoServices Corp.
Street Address	1055 Andrew Drive, Suite A
City, State, Zip	West chester, PA 19380-4293
Project	Lead smelter - hazardous waste regulations
Date	July 28, 2005
Invoice Number	05072806

Personnel of the Habitat Section of the Fur and Refuge Division have reviewed the preliminary data for the captioned project. The proposed project may impact the the pallid sturgeon (Scaphirhychus albus) and its habitat. The pallid sturgeon was listed under Endangered Species Act (16 U.S.C. 1531-1544) as endangered on September 6, 1990. Federal protection became effective on October 9, 1990. The pallid sturgeon is confined to the Mississippi and Atchafalaya rivers in southern Louisiana. This species requires large and free-flowing riverine habitat; it occurs in strong current over firm gravel or sandy substrate. The Pallid sturgeons are adapted for living close to the bottom of large, shallow rivers with sand and gravel bars. The primary reason for their decline is believed to be loss of habitat caused by the construction of dams that have modified flows, reduced turbidity, and lowered water temperatures. We advice you to take the necessary measures in order to avoid any degradation of water quality in the Mississippi river. If you have any questions, please contact LNHP zoologist at 225-765-2821. Contact David Walther with the USFWS at 337-291-3100 to coordinate activities concerning threatened and endangered species.

After careful review of our database, no other impacts to rare, threatened, or endangered species or critical habitats are anticipated for the proposed project. No state or federal parks, wildlife refuges, scenic streams, or wildlife management areas are known at the specified sites 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. The quantity and quality of data collected by the LNHP are dependent on the research and observations of many individuals. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in Louisiana have not been surveyed. This report does not address the occurrence of wetlands at the site in question. Heritage reports 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. If you have any questions or need additional information, please call Louisiana Natural Heritage Program Assistant Data Manger SteveCarpenedo at 225-765-2357.

Sincerely,

Gary Lester, Coordinator
Natural Heritage Program

RESPONSE
ATTACHMENT A27

APPENDIX 27

SEISMIC STANDARD CERTIFICATION

CERTIFICATION OF COMPLIANCE – SEISMIC STANDARD

I certify that the Exide Technologies Baton Rouge facility located at 2400 Brooklawn Drive, Baton Rouge, East Baton Rouge Parish, Louisiana meets the seismic standard requirements of LAC 33:V.517.T.1. This certification is based on the following information:

- East Baton Rouge Parish is not listed in 40 CRF 264, Appendix VI; therefore the seismic standard is not applicable;
- *Geohydrology of the Shallow Aquifer of Bation Rouge* by Charles G. Smith, Jr. 1969, L.S.U. indicates that the facility is located in a fault free zone and in excess of 3,000 feet from the nearest holocene fault;
- *Fault and Salt Map of South Louisiana* by R.E. Wallace 1982 indicates that faults that have had displacement in the Holocene time are not located within 200 feet of the facility; and
- An analysis of aerial photos within a 3,000 foot radius of the facility.

10/17/05

Paul G. Stratman, P.E. No. 29150

F:\OFICEAGC\PROJECTS\Work\EXIDE\Baton Rouge, LA\Deficiency Responses\Seismic Certification.doc

DATABASE FEATURES
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- Corrections
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RELATED RESOURCES
- Code of Federal Regulations
- Federal Register
- List of CFR Sections Affected
- Regulations.gov
- Unified Agenda
- All NARA Publications

ABOUT GOVERNMENT
Ben's Guide to U.S. Government

Electronic Code of Federal Regulations (e-CFR)

BETA TEST SITE

e-CFR Data is current as of July 6, 2005

Title 40: Protection of Environment

PART 264—STANDARDS FOR OWNERS AND OPERATORS OF HAZARDOUS WASTE TREATMENT, STORAGE, AND DISPOSAL FACILITIES
Subpart EE—Hazardous Waste Munitions and Explosives Storage

Browse Previous | Browse Next

Appendix VI to Part 264—Political Jurisdictions [1] in Which Compliance With §264.18(a) Must Be Demonstrated

Alaska

Aleutian Islands
Anchorage
Bethel
Bristol Bay
Cordova-Valdez
Fairbanks-Fort Yukon
Juneau
Kenai-Cook Inlet
Ketchikan-Prince of Wales
Kodiak
Lynn Canal-Icy Straits
Palmer-Wasilla-Talkeena
Seward
Sitka
Wade Hampton
Wrangell Petersburg
Yukon-Kuskokwim

EAST BATON ROUGE PARISH, LA IS NOT ON THIS LIST.

Arizona

Cochise
Graham
Greenlee
Yuma

California

All

Colorado

Archuleta
Conejos
Hinsdale

Mineral
Rio Grande
Saguache

Hawaii

Hawaii

Idaho

Bannock
Bear Lake
Bingham
Bonneville
Caribou
Cassia
Clark
Franklin
Fremont
Jefferson
Madison
Oneida
Power
Teton

LOUISIANA NOT LISTED

Montana

Beaverhead
Broadwater
Cascade
Deer Lodge
Flathead
Gallatin
Granite
Jefferson
Lake
Lewis and Clark
Madison
Meagher
Missoula
Park
Powell
Sanders
Silver Bow
Stillwater
Sweet Grass
Teton
Wheatland

Nevada

All

New Mexico

Bernalillo
Catron
Grant
Hidalgo
Los Alamos
Rio Arriba
Sandoval
Sante Fe
Sierra

Socorro
Taos
Torrance
Valencia

Utah

Beaver
Box Elder
Cache
Carbon
Davis
Duchesne
Emery
Garfield
Iron
Juab
Millard
Morgan
Piute
Rich
Salt Lake
Sanpete
Sevier
Summit
Tooele
Utah
Wasatch
Washington
Wayne
Weber

Washington

Chelan
Clallam
Clark
Cowlitz
Douglas
Ferry
Grant
Grays Harbor
Jefferson
King
Kitsap
Kittitas
Lewis
Mason
Okanogan
Pacific
Pierce
San Juan Islands
Skagit
Skamania
Snohomish
Thurston
Wahkiakum
Whatcom
Yakima

Wyoming

Fremont
Lincoln
Park
Sublette
Teton

Uinta
Yellowstone National
Park

[46 FR 57285, Nov. 23, 1981; 47 FR 953, Jan. 8, 1982]

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Last updated: June 8, 2005

RESPONSE
ATTACHMENT A28

APPENDIX 28

CLIMATOLOGICAL DATA

BATON ROUGE CLIMATE DATA
1994 TO 2005

Max (F)	J	F	M	A	M	J	J	A	S	O	N	D
1995	61.3	67	71.1	79.5	86.2	89.9	92.2	93.3	90.9	80	70.2	63.6
1996	63.8	64.8	68.4	76.2	87.2	88.8	91.1	88.9	86	78.2	70.5	66
1997	59.9	63.2	74.5	72.6	82.3	87.4	91.8	90.6	89.7	80.3	65.9	60.7
1998	63.7	63.9	69.4	76.2	88.1	92.6	93.7	93.6	89.1	82.3	73	65
1999	67.7	69.9	70.9	82.4	85.4	89.2	90.3	95.5	87.9	79.7	72.5	64.2
2000	64.9	72.6	76	77.7	89	91.1	93.1	95.5	88.6	81.1	66.8	56.1
2001	58.4	70.7	67.5	81.5	86.1	87.1	90.9	89.2	85.4	77.2	76.6	66.1
2002	64	62.2	72.3	80.7	86.2	89.6	90.9	91.4	87.6	79.2	67.7	63.2
2003	58.1	62.9	71.2	79.1	88	88.7	90	92.2	87	80.5	74.5	63.1
2004	63.2	60	76.1	77.1	85.2	88.9	91.8	91.4	90	83.7	72.1	62.5
Average	62.5	65.72	71.74	78.3	86.37	89.33	91.58	92.16	88.22	80.22	70.98	63.05

Average Maximum 78.3475

Min (F)	J	F	M	A	M	J	J	A	S	O	N	D
1995	41.4	43.1	52.5	57	67.6	67.5	74.1	73.8	66.9	57.5	45.5	42.7
1996	39	43.3	44.8	53.6	66	69.1	72.6	71.1	66.4	57.1	49.5	44.3
1997	42.5	46.5	53.8	52.2	63.4	70.5	73.1	71.7	67.3	55.7	45.4	38.9
1998	44	43	47.3	54.3	67.1	73.7	75.2	73.2	72.5	59.7	52.4	46.8
1999	44	47.3	47.6	61.2	63.6	71.3	72.9	74.6	64.2	55.4	45.5	40.3
2000	43.2	47.1	52.1	53.3	67.5	70.1	72.7	73	66.6	53.7	45.2	35
2001	37	47.7	46.1	59.6	62.5	68.9	72.4	72.8	66.3	52.3	49.5	43.9
2002	41.2	38.3	48.9	60.4	63	69.1	72.5	71.9	71.6	64.5	46.3	40.8
2003	36.3	42.9	50.6	55.3	67.9	71.7	72.8	73.3	66.6	56.3	50	38
2004	40.7	41.9	53.1	53.5	64.7	71.8	73.4	70.4	68.7	65.5	53	39.6
Average	40.93	44.11	49.68	56.04	65.33	70.37	73.17	72.58	67.71	57.77	48.23	41.03

Average Minimum 57.24583

Average Monthly 67.79667

METEOROLOGICAL DATA FOR 1995

BATON ROUGE, LA (BTR)

LATITUDE: 30° 31' 59" N | LONGTITUDE: 91° 08' 58" W | ELEVATION (FT): GRND: 64 BARO: 73 | TIME ZONE: CENTRAL (UTC+06) | WBAN: 13970

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	61.3	67.0	71.1	79.5	86.2	89.9	92.2	93.3	90.9	80.0	70.2	63.6	78.8
	HIGHEST DAILY MAXIMUM	77	80	85	87	91	95	100	97	97	92	85	82	100
	DATE OF OCCURRENCE	11	27	24	19	15	27	28	20	3	1	1	5	JUL 28
	MEAN DAILY MINIMUM	41.4	43.1	52.5	57.0	67.6	67.5	74.1	73.8	66.9	57.5	45.5	42.7	57.5
	LOWEST DAILY MINIMUM	28	29	33	42	56	58	69	70	54	42	33	23	23
	DATE OF OCCURRENCE	24	8	10	2	21	14	8	14	23	21	30	11	DEC 11
	AVERAGE DRY BULB	51.3	55.0	61.8	68.2	76.9	78.7	83.1	83.5	78.9	68.7	57.8	53.1	68.1
	MEAN WET BULB	48.1	50.6	58.0	63.6	73.1	73.2	78.0	76.6	70.3	62.3	53.1	48.6	63.0
	MEAN DEW POINT	44.2	45.4	55.0	60.7	71.4	70.7	76.2	74.4	66.2	57.6	48.4	44.1	59.5
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	12	20	24	28	22	1	0	0	107
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	6	4	0	0	0	0	0	0	0	0	0	11	21
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	423	280	158	31	0	0	0	0	1	31	232	410	1566
	COOLING DEGREE DAYS	8	9	68	137	377	418	572	583	425	159	29	52	2837
RH	MEAN (PERCENT)		73	82	80	86	81	83	80	71	72	74	76	
	HOUR 06 LST		86	94	97	98	98	97	95	89	85	87	87	
	HOUR 12 LST		62	68	64	71	62	69	60	50	53	55	62	
	HOUR 18 LST		63	75	67	78	68	74	74	63	70	72	70	
	HOUR 24 LST		82	90	93	97	96	95	94	84	84	84	85	
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	3	6	4	5	3	0	0	2	0	5	3	7	38
	THUNDERSTORMS	4	0	10	6	13	4	10	16	6	4	6	5	84
CLOUDINESS	SUNRISE-SUNSET: (TENTHS)													
	CEILOMETER (≤ 12,000 FT.)		4	6	3		2	3	2	2	3		4	
	SATELLITE (> 12,000 FT.)												4	
	MIDNIGHT-MIDNIGHT: (TENTHS)													
	CEILOMETER (≤ 12,000 FT.)		4	6			2	2			3		4	
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR	2						1	6	13	8		7	
	PARTLY CLOUDY							1	4		2		2	
	CLOUDY	1						2	1	2	4		7	
PR	MEAN STATION PRESS. (IN.)	30.01	30.04	29.96	29.86	29.84	29.87	29.89	29.84	29.89	29.91	30.05	30.06	29.93
	MEAN SEA-LEVEL PRESS. (IN.)	30.09	30.12	30.04	29.94	29.92	29.95	29.97	29.91	29.97	29.99	30.13	30.14	30.01
WINDS	RESULTANT SPEED (MPH)	0.6	0.3	2.4	3.3	3.3	0.7	1.3	0.9	2.1	2.5	1.5	1.3	1.0
	RES. DIR. (TENS OF DEGS.)	24	35	10	13	15	10	21	6	4	5	7	4	10
	MEAN SPEED (MPH)	7.2	7.2	7.7	7.0	7.0	4.8	6.6	3.6	5.0	5.8	6.9	7.5	6.4
	PREVAIL.DIR.(TENS OF DEGS.)		33	11	9	17	6	28	8	3	6	5	11	35
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	31	26	31	39	30	26	31	33	21	24	33	39	39
	DIR. (TENS OF DEGS.)	21	21	27	23	28	17	07	05	25	22	22	28	28
	DATE OF OCCURRENCE	6	10	7	11	18	29	29	21	16+	27	11	18	DEC 18
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	34	29	43	48	36	34	41	38	25	31	45	52	52
	DIR. (TENS OF DEGS.)	22	22	25	24	13	19	05	05	06	22	23	30	30
	DATE OF OCCURRENCE	6	10+	7	11	18	29	29	21+	14	27	11	18	DEC 18
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	7.27	3.56	10.70	9.55	10.82	2.34	2.36	5.34	2.70	3.10	8.16	8.99	74.89
	GREATEST 24-HOUR (IN.)	3.04	2.07	3.78	7.17	4.66	1.18	1.06	1.38	1.15	1.42	5.42	7.57	7.57
	DATE OF OCCURRENCE	26-27	28	29-29	10-11	18-19	29-30	01-02	21-22	21	02-03	02-03	17-18	DEC 17-18
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	9	9	14	10	11	7	13	12	6	8	13	9	121
	PRECIPITATION ≥ 0.10	8	5	9	6	8	5	7	10	3	6	9	7	83
	PRECIPITATION ≥ 1.00	3	2	4	3	4	1	0	1	1	1	1	2	23
SNOWFALL	SNOW,ICE PELLETS,HAIL:													
	TOTAL (IN.)	T	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		
	GREATEST 24-HOUR (IN.)	T	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		
	DATE OF OCCURRENCE	04+												
	MAXIMUM SNOW DEPTH (IN.)	0	0	0	0		0	0	0	0	0	0		
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0

METEOROLOGICAL DATA FOR 1996

BATON ROUGE, LA (BTR)

LATITUDE: 30° 32′ 14″ N | LONGITUDE: 91° 08′ 49″ W | ELEVATION (FT): GRND: 64 BARO: 73 | TIME ZONE: CENTRAL (UTC+6) | WBAN: 13970

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	63.8	64.8	68.4	76.2	87.2	88.8	91.1	88.9	86.0	78.2	70.5	66.0	77.5
	HIGHEST DAILY MAXIMUM	77	84	82	86	92	92	95	92	93	85	84	79	95
	DATE OF OCCURRENCE	26+	26	16+	28+	28+	30+	23+	20+	16	27+	1	6	JUL 23+
	MEAN DAILY MINIMUM	39.0	43.3	44.8	53.6	66.0	69.1	72.6	71.1	66.4	57.1	49.5	44.3	56.4
	LOWEST DAILY MINIMUM	21	15	23	36	45	60	66	68	50	39	33	18	15
	DATE OF OCCURRENCE	8	5	9	7	1	10+	5	31+	29	23	27	20	FEB 5
	AVERAGE DRY BULB	51.4	54.0	56.6	64.9	76.6	79.0	81.9	80.0	76.2	67.7	60.0	55.2	67.0
	MEAN WET BULB	46.7	49.3	50.3	59.4	71.2	73.4	75.6	74.3	70.4	62.8	55.9	51.8	61.8
	MEAN DEW POINT	41.9	43.9	43.6	55.1	68.7	71.3	73.3	72.4	67.9	59.8	52.6	48.0	58.2
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	8	14	23	16	8	0	0	0	69
	MAXIMUM ≤ 32°	0	2	0	0	0	0	0	0	0	0	0	0	2
	MINIMUM ≤ 32°	12	7	5	0	0	0	0	0	0	0	0	6	30
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	423	365	293	95	3	0	0	0	5	49	182	312	1727
	COOLING DEGREE DAYS	8	54	40	101	370	428	529	472	344	135	41	14	2536
RH	MEAN (PERCENT)	74	72	67	74	79	82	79	84	80	80	80	79	78
	HOUR 06 LST	86	86	86	92	97	98	95	97	94	94	90	91	92
	HOUR 12 LST	62	57	52	57	60	64	61	66	62	61	64	66	61
	HOUR 18 LST	65	64	53	58	66	74	72	77	72	76	79	73	69
	HOUR 24 LST	82	84	78	87	91	95	91	95	92	92	88	88	89
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	4	3	1	2	4	1	1	0	0	1	2	10	29
	THUNDERSTORMS	4	2	9	10	5	16	16	13	6	7	3	4	95
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)				2	2	2							
	SATELLITE (> 12,000 FT.)			2			2							
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)				3	2	2							
	SATELLITE (> 12,000 FT.)			2										
	NUMBER OF DAYS WITH:													
	CLEAR		5	10		10	6							
	PARTLY CLOUDY	1	3	3		3	9							
	CLOUDY	3	4	5		5	4							
PR	MEAN STATION PRESS. (IN.)	30.01	30.03	29.99	29.93	29.93	29.90	29.93	29.95	29.84	29.96	30.06	30.05	29.96
	MEAN SEA-LEVEL PRESS. (IN.)	30.09	30.11	30.07	30.01	30.01	29.98	30.01	30.03	29.92	30.04	30.14	30.13	30.05
WINDS	RESULTANT SPEED (MPH)	0.9	2.3	0.9	2.9	4.7	1.0	0.3	0.4	0.9	0.9	1.5	1.0	1.1
	RES. DIR. (TENS OF DEGS.)	19	22	21	18	17	16	23	03	02	24	12	22	18
	MEAN SPEED (MPH)	8.7	9.1	8.2	7.8	6.8	4.2	4.9	3.8	4.5		7.1	6.7	
	PREVAIL.DIR.(TENS OF DEGS.)	11	22	05	19	20	08	24	06	07	06	11	18	17
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	29	26	38	26	25	36	23	25	28	32	28	26	38
	DIR. (TENS OF DEGS.)	27	22	27	28	06	21	28	15	28	28	18	21	27
	DATE OF OCCURRENCE	18	19	18	29	29	24	25+	06	16	22	24	10	MAR 18
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	36	32	49	36	33	46	33	32	34	41	35	31	49
	DIR. (TENS OF DEGS.)	33	23	29	28	07	16	15	16	29	28	22	20	29
	DATE OF OCCURRENCE	24+	19	18	13	29	24	17	06	16	22	24	10	MAR 18
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	6.41	3.27	6.21	5.92	3.14	5.04	2.52	5.94	6.57	10.17	2.30	1.83	59.32
	GREATEST 24-HOUR (IN.)	3.94	2.13	3.29	2.28	1.20	2.51	0.46	1.18	2.24	4.44	0.98	0.69	4.44
	DATE OF OCCURRENCE	26	27-28	17-18	12-13	08-09	23-24	18-19	17-18	20-21	25	7	15-16	OCT 25
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	12	7	11	10	4	10	14	20	11	10	7	9	125
	PRECIPITATION ≥ 0.10	6	5	8	8	4	8	9	11	7	9	4	6	85
	PRECIPITATION ≥ 1.00	2	1	2	2	1	2	0	2	3	3	0	0	18
SNOWFALL	SNOW,ICE PELLETS,HAIL:													
	TOTAL (IN.)	0.0												
	GREATEST 24-HOUR (IN.)	0.0												
	DATE OF OCCURRENCE													
	MAXIMUM SNOW DEPTH (IN.)	0												
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0	0												

METEOROLOGICAL DATA FOR 1997

BATON ROUGE, LA (BTR)

LATITUDE: 30° 32′ 14″ N | LONGITUDE: 91° 08′ 49″ W | ELEVATION (FT): GRND: 64 BARO: 73 | TIME ZONE: CENTRAL (UTC+ 6) | WBAN: 13970

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	59.9	63.2	74.5	72.6	82.3	87.4	91.8	90.6	89.7	80.3	65.9	60.7	76.6
	HIGHEST DAILY MAXIMUM	78	80	84	83	90	94	95	95	95	92	83	77	95
	DATE OF OCCURRENCE	27+	21	29+	21	27	23	04	30	22+	01	01	09	SEP 22+
	MEAN DAILY MINIMUM	42.5	46.5	53.8	52.2	63.4	70.5	73.1	71.7	67.3	55.7	45.4	38.9	56.8
	LOWEST DAILY MINIMUM	21	30	39	38	49	59	70	63	59	35	30	27	21
	DATE OF OCCURRENCE	18	11	07	18	05	02	16+	25	12	28	17	28+	JAN 18
	AVERAGE DRY BULB	51.2	54.9	64.2	62.4	72.9	79.0	82.5	81.2	78.5	68.0	55.7	49.8	66.7
	MEAN WET BULB	47.0	51.2	60.0	57.4	67.4	73.4	76.3	74.8	71.7	61.4	51.5	45.8	61.5
	MEAN DEW POINT	42.5	47.7	56.8	52.8	64.4	71.3	74.3	72.4	68.4	57.0	47.7	41.5	58.1
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	1	11	26	23	18	4	0	0	83
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	10	3	0	0	0	0	0	0	0	0	1	8	22
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	450	300	91	105	3	0	0	0	0	79	277	464	1769
	COOLING DEGREE DAYS	29	23	72	32	255	426	548	510	414	180	5	2	2496
RH	MEAN (PERCENT)	76	80	79	74	79	81	82	79	76	74	79	76	78
	HOUR 00 LST	82	86	88	87	91	91	93	91	90	86	88	88	88
	HOUR 06 LST	85	90	91	87	93	96	96	95	95	92	91	91	92
	HOUR 12 LST	66	69	66	62	62	66	64	60	55	53	62	61	62
	HOUR 18 LST	73	72	69	60	68	72	75	69	62	65	74	66	69
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	6	2	6	1	2	5	3	0	0	2	2	2	31
	THUNDERSTORMS	5	3	6	8	13	13	16	11	1	6	4	3	89
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)	30.07	30.07	29.99	29.88	29.92	29.84	29.92	29.95	29.88	29.96	29.97	29.95	29.95
	MEAN SEA-LEVEL PRESS. (IN.)	30.15	30.15	30.06	29.96	30.00	29.92	30.00	30.02	29.96		30.05	30.03	
WINDS	RESULTANT SPEED (MPH)	0.4	3.3	2.5	1.8	2.1	1.0	0.9	0.4	0.3	2.2	0.6	0.6	0.8
	RES. DIR. (TENS OF DEGS.)	16	08	17	11	15	15	31	34	12	12	06	29	12
	MEAN SPEED (MPH)	8.1	8.2	7.2	7.5	5.8	5.1	4.2	3.9	4.3	6.3	5.3	6.1	6.0
	PREVAIL.DIR.(TENS OF DEGS.)	04	06	11	11	11	19	06	09	05	11	05	33	
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	28	30	26	32	29	28	37	29	22	23	32	26	37
	DIR. (TENS OF DEGS.)	21	20	16	23	17	07	28	27	21	23	22	29	28
	DATE OF OCCURRENCE	04	21+	01	05	02	24	10	08	24	24	21	24	JUL 10
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	34	37	33	39	38	37	47	36	26	31	44	32	47
	DIR. (TENS OF DEGS.)	21	20	15	23	19	07	28	27	21	23	22	28	28
	DATE OF OCCURRENCE	04	21+	01	05	02	24	10	08	24	24	21	29	JUL 10
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	6.04	7.98	3.43	9.51	7.46	7.83	4.71	4.26	1.18	3.49	6.06	6.32	68.27
	GREATEST 24-HOUR (IN.)	1.96	2.72	0.95	3.34	1.75	5.30	1.39	1.61	1.02	1.55	2.06	3.65	5.30
	DATE OF OCCURRENCE	07-08	24-25	12-13	04-05	03	17-18	10	20	02	25-26	12	20-21	JUN 17-18
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	15	13	9	7	13	10	12	12	4	6	10	10	121
	PRECIPITATION ≥ 0.10	9	9	6	6	11	7	9	7	1	5	5	8	83
	PRECIPITATION ≥ 1.00	3	3	0	5	3	3	1	1	1	1	3	1	25
SNOWFALL	SNOW,ICE PELLETS,HAIL:													
	TOTAL (IN.)													
	GREATEST 24-HOUR (IN.)													
	DATE OF OCCURRENCE													
	MAXIMUM SNOW DEPTH (IN.)													
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0													

METEOROLOGICAL DATA FOR 1998

BATON ROUGE, LA (BTR)

LATITUDE: 30° 32′ 14″ N | LONGITUDE: 91° 08′ 49″ W | ELEVATION (FT): GRND: 64 BARO: 73 | TIME ZONE: CENTRAL (UTC+ 6) | WBAN: 13970

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	63.7	63.9	69.4	76.2	88.1	92.6	93.7	93.6	89.1	82.3	73.0	65.0	79.2
	HIGHEST DAILY MAXIMUM	73	77	83	84	97	97	97	100	97	93	84	83	100
	DATE OF OCCURRENCE	03	10	30+	07	31	19	12+	29+	03	01	01	07+	AUG 29+
	MEAN DAILY MINIMUM	44.0	43.0	47.3	54.3	67.1	73.7	75.2	73.2	72.5	59.7	52.4	46.8	59.1
	LOWEST DAILY MINIMUM	32	30	28	41	55	60	72	68	65	45	38	31	28
	DATE OF OCCURRENCE	28+	08	11	11	01	07	27+	05	04	24	06	16	MAR 11
	AVERAGE DRY BULB	53.9	53.5	58.4	65.3	77.6	83.2	84.5	83.4	80.8	71.0	62.7	55.9	69.2
	MEAN WET BULB	51.0	49.1	53.1	60.0	71.5	76.3	77.3	75.6	74.5	64.9	58.7	52.1	63.7
	MEAN DEW POINT	48.1	44.3	47.1	55.5	68.3	73.7	74.7	72.8	72.3	61.5	55.8	49.4	60.3
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	11	25	29	28	17	2	0	0	112
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	4	3	2	0	0	0	0	0	0	0	0	2	11
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	338	316	253	70	0	0	0	0	0	15	94	335	1421
	COOLING DEGREE DAYS	2	0	56	86	398	552	612	580	484	211	31	61	3073
RH	MEAN (PERCENT)	84	74	69	74	75	77	77	76	80	77	81	83	77
	HOUR 06 LST	92	90	87	92	94	95	94	95	93	93	93	93	93
	HOUR 12 LST	72	58	54	56	57	58	61	56	64	55	65	71	61
	HOUR 18 LST	75	61	57	60	61	65	66	65	74	74	79	79	68
	HOUR 24 LST	92	86	80	86	90	91	89	91	90	92	91	91	89
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	5	1	3	1	1	1	0	1	0	4	10	5	32
	THUNDERSTORMS	8	4	3	3	1	8	15	15	3	2	1	1	64
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)	29.95	29.82	29.95	29.88	29.84	29.89	29.93	29.91	29.78	30.01	30.01	30.09	29.92
	MEAN SEA-LEVEL PRESS. (IN.)	30.03	29.90		29.96	29.92	29.97	30.01		29.86		30.09	30.17	
WINDS	RESULTANT SPEED (MPH)	2.1	0.2	2.7	2.4	1.5	1.6	1.3	0.3	1.9	2.4	0.7	1.6	1.1
	RES. DIR. (TENS OF DEGS.)	11	02	17	17	18	15	21	08	05	08	11	10	13
	MEAN SPEED (MPH)	6.9	7.4	8.4	6.8	6.0	8.7	5.6	4.2	7.6	4.7	5.0	6.0	6.4
	PREVAIL.DIR.(TENS OF DEGS.)	11	30	12	17	19	19	25	07	08	11	06	07	11
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	26	39	29	26	26	28	31	31	26	22	20	25	39
	DIR. (TENS OF DEGS.)	08	17	11	24	11	23	23	26	10	15	18	25	17
	DATE OF OCCURRENCE	07+	10	17	18	29	14	25	06	11	05	10	08	FEB 10
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	32	51	39	32	30	38	38	46	37	25	37	33	51
	DIR. (TENS OF DEGS.)	07	17	14	25	12	18	22	20	33	17	36	23	17
	DATE OF OCCURRENCE	07	10	17	18	29	22	25	18	28	05+	10	08	FEB 10
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	14.94	5.60	4.03	5.05	0.35	2.51	3.56	3.05	8.54	2.23	3.05	3.58	56.49
	GREATEST 24-HOUR (IN.)	4.41	1.42	1.93	3.35	0.35	0.77	1.39	1.00	3.75	2.20	1.65	1.12	4.41
	DATE OF OCCURRENCE	12	22	16-17	28-29	28-29	05-06	21-22	06-07	11-12	06	14-15	28	JAN 12
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	12	9	7	8	1	9	11	10	12	3	7	11	100
	PRECIPITATION ≥ 0.10	10	5	4	5	1	6	6	4	9	1	5	8	64
	PRECIPITATION ≥ 1.00	5	3	2	1	0	0	1	0	4	1	1	1	19
SNOWFALL	SNOW, ICE PELLETS, HAIL:													
	TOTAL (IN.)													
	GREATEST 24-HOUR (IN.)													
	DATE OF OCCURRENCE													
	MAXIMUM SNOW DEPTH (IN.)													
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0													

METEOROLOGICAL DATA FOR 1999

BATON ROUGE, LA (BTR)

LATITUDE: 30° 32′ 14″ N | LONGITUDE: 91° 08′ 49″ W | ELEVATION (FT): GRND: 70 BARO: 70 | TIME ZONE: CENTRAL (UTC + 6) | WBAN: 13970

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	67.7	69.9	70.9	82.4	85.4	89.2	90.3	95.5	87.9	79.7	72.5	64.2	79.6
	HIGHEST DAILY MAXIMUM	81	81	83	91	90	93	94	100	96	90	81	81	100
	DATE OF OCCURRENCE	21	11+	06	24	23+	05	23	19	06	04	23+	04	AUG 19
	MEAN DAILY MINIMUM	44.0	47.3	47.6	61.2	63.6	71.3	72.9	74.6	64.2	55.4	45.5	40.3	57.3
	LOWEST DAILY MINIMUM	20	30	33	40	49	65	70	66	48	37	33	28	20
	DATE OF OCCURRENCE	05	22	16	18	01	19	19+	16	23	25+	27	26	JAN 05
	AVERAGE DRY BULB	55.9	58.6	59.3	71.8	74.5	80.3	81.6	85.1	76.1	67.6	59.0	52.3	68.5
	MEAN WET BULB	51.4	53.1	54.3	65.4	68.1	74.1	75.9	76.8	68.2	61.6		47.9	
	MEAN DEW POINT	46.8	47.4	49.4	61.1	64.3	71.6	73.8	73.6	63.8	57.6		43.2	
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	2	4	13	22	30	16	1	0	0	88
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	6	3	0	0	0	0	0	0	0	0	0	8	17
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	312	213	182	30	2	0	0	0	0	67	189	402	1397
	COOLING DEGREE DAYS	35	42	11	241	304	465	523	629	339	152	17	16	2774
RH	MEAN (PERCENT)	74	70	73	73	74	79	82	73	72	76	77	75	75
	HOUR 00 LST	85	81	84	86	88	92	95	85	87	89	92	87	88
	HOUR 06 LST	89	86	89	93	94	94	97	93	91	91	96	88	92
	HOUR 12 LST	58	57	57	54	55	63	65	56	51	55	51	59	57
	HOUR 18 LST	65	55	60	57	59	69	73	65	62	73	74	68	65
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	2	1	2	3	3	3	1	0	1	4	7	3	30
	THUNDERSTORMS	3	2	8	1	10	12	16	10	6	3	1	1	73
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)	30.04	30.05	29.97	29.91	29.89	29.92	29.97	29.86	29.88	30.00		30.08	
	MEAN SEA-LEVEL PRESS. (IN.)	30.12	30.13	30.04	29.99	29.97	29.99	30.05	29.94	29.96	30.07			
WINDS	RESULTANT SPEED (MPH)	3.4	2.1	1.6	4.3	1.2	1.1	0.8	0.9	1.3	2.3		1.1	
	RES. DIR. (TENS OF DEGS.)	16	19	12	19	13	17	26	21	08	08		15	
	MEAN SPEED (MPH)	7.6	6.9	7.3	8.3	5.6	5.3	4.3	5.2	4.5	4.4		6.3	
	PREVAIL.DIR.(TENS OF DEGS.)	17	19	11	17	12	07	24	23	08	05	11	10	11
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	39	33	33	25	39	31	36	29	24	21	20	33	39
	DIR. (TENS OF DEGS.)	24	25	20	19	22	17	07	11	25	11	33	07	22
	DATE OF OCCURRENCE	22	27	08	22+	11	09	27	09	04	07+	02	18	MAY 11
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	47	47	46	32	52	37	47	37	29	29	29	38	52
	DIR. (TENS OF DEGS.)	23	22	21	18	25	17	06	11	25	12	31	07	25
	DATE OF OCCURRENCE	22+	27	08	22	10	09	27	09	04	07	02	18	MAY 10
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	5.48	1.78	5.39	0.64	5.49	6.67	5.97	0.38	4.08	7.04	0.87	5.27	49.06
	GREATEST 24-HOUR (IN.)	1.68	0.97	2.33	0.57	1.94	3.29	1.44	0.28	2.43	3.23	0.54	2.05	3.29
	DATE OF OCCURRENCE	22	17-18	13	26	10-11	25-26	09-10	31	28-29	08-09	25	18	JUN 25-26
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	9	5	12	2	9	12	16	2	8	7	5	9	96
	PRECIPITATION ≥ 0.10	6	3	8	1	6	9	11	2	6	4	3	6	65
	PRECIPITATION ≥ 1.00	3	0	1	0	3	3	2	0	1	3	0	2	18
SNOWFALL	SNOW,ICE PELLETS,HAIL:													
	TOTAL (IN.)													
	GREATEST 24-HOUR (IN.)													
	DATE OF OCCURRENCE													
	MAXIMUM SNOW DEPTH (IN.)													
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0													

METEOROLOGICAL DATA FOR 2000

BATON ROUGE, LA (BTR)

LATITUDE: 30° 32' 14" N | LONGITUDE: 91° 08' 49" W | ELEVATION (FT): GRND: 70 BARO: 70 | TIME ZONE: CENTRAL (UTC + 6) | WBAN: 13970

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	64.9	72.6	76.0	77.7	89.0	91.1	93.1	95.5	88.6	81.1	66.8	56.1	79.4
	HIGHEST DAILY MAXIMUM	81	84	83	87	95	94	99	105	104	91	84	77	105
	DATE OF OCCURRENCE	02	18	28+	19	26	25+	20	30	04	05	08+	11	AUG 30
	MEAN DAILY MINIMUM	43.2	47.1	52.1	53.3	67.5	70.1	72.7	73.0	66.6	53.7	45.2	35.0	56.6
	LOWEST DAILY MINIMUM	27	26	35	35	55	60	66	69	50	38	27	20	20
	DATE OF OCCURRENCE	26+	06	12	09	16+	08	26+	14+	27+	11	22	20	DEC 20
	AVERAGE DRY BULB	54.1	59.9	64.1	65.5	78.3	80.6	82.9	84.3	77.6	67.4	56.0	45.6	68.0
	MEAN WET BULB	49.1		59.8	60.8	70.8	73.3	74.8	75.6	70.2	60.4	52.3	41.5	
	MEAN DEW POINT	42.8		56.8	56.9	67.0	70.2	71.3	72.3	66.6	55.5	48.9	35.9	
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	15	24	25	29	13	1	0	0	107
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	7	2	0	0	0	0	0	0	0	0	4	11	24
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	355	198	99	62	0	0	0	0	7	57	315	597	1690
	COOLING DEGREE DAYS	23	55	79	82	418	476	560	606	392	136	54	0	2881
RH	MEAN (PERCENT)	70	69	80	76	72	77	72	73	74	72	81	73	74
	HOUR 00 LST	78	82	94	91	87	90	86	85	87	89	92	81	87
	HOUR 06 LST	83	88	97	96	94	94	92	94	91	91	93	82	91
	HOUR 12 LST	58	49	63	56	53	57	53	52	57	47	64	62	56
	HOUR 18 LST	60	52	63	60	59	70	58	61	64	60	76	69	63
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	6	4	4	4	2	2	1	0	3	6	5	3	40
	THUNDERSTORMS	3	1	6	6	2	10	8	8	6	2	2	2	56
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)	30.11		29.95	29.96	29.91	29.97	29.92	29.95	29.87	30.09	30.00	30.16	
	MEAN SEA-LEVEL PRESS. (IN.)	30.19		30.02	30.03	29.98	30.04	29.99	30.02	29.94	30.16	30.07	30.23	
WINDS	RESULTANT SPEED (MPH)	1.3		2.0	1.8	3.2	1.4	2.4	0.7	2.5	2.5	1.4	1.7	
	RES. DIR. (TENS OF DEGS.)	16		14	20	19	17	24	25	09	09	12	04	
	MEAN SPEED (MPH)	7.7	6.8	6.0	6.4	7.9	5.5	5.4	4.8	5.8	4.4	5.4	6.5	6.0
	PREVAIL.DIR.(TENS OF DEGS.)	23	17	10	16	18	11	27	24	05	11	12	07	07
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	25	28	31	29	33	25	33	37	24	26	26	36	37
	DIR. (TENS OF DEGS.)	20	19	28	27	07	22	28	07	10	20	18	27	07
	DATE OF OCCURRENCE	03	23	27	03	05	25+	23	30	21+	05	08	16	AUG 30
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	33	33	40	35	41	29	44	48	33	29	33	43	48
	DIR. (TENS OF DEGS.)	24	18	28	27	08	28	30	09	22	18	17	30	09
	DATE OF OCCURRENCE	03	18	27	03	05	24+	23	30	12	05	08	16	AUG 30
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	2.78	0.64	3.36	1.55	1.15	4.78	3.61	2.68	3.04	1.07	10.71	2.73	38.10
	GREATEST 24-HOUR (IN.)	0.96	0.57	1.39	0.65	1.11	2.04	2.30	1.45	1.38	0.84	3.65	0.82	3.65
	DATE OF OCCURRENCE	03	26	26-27	23-24	05	18-19	09	10-11	08	05-06	18-19	01	NOV 18-19
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	8	2	8	7	3	15	8	7	7	3	14	8	90
	PRECIPITATION ≥ 0.10	6	1	6	4	1	7	3	5	5	2	10	6	56
	PRECIPITATION ≥ 1.00	0	0	1	0	1	2	1	1	1	0	3	0	10
SNOWFALL	SNOW,ICE PELLETS,HAIL:													
	TOTAL (IN.)													
	GREATEST 24-HOUR (IN.)													
	DATE OF OCCURRENCE													
	MAXIMUM SNOW DEPTH (IN.)													
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0													

METEOROLOGICAL DATA FOR 2001

BATON ROUGE, LA (BTR)

LATITUDE: 30° 32′ 14″ N | LONGITUDE: 91° 08′ 49″ W | ELEVATION (FT): GRND: 67 BARO: 70 | TIME ZONE: CENTRAL (UTC + 6) | WBAN: 13970

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	58.4	70.7	67.5	81.5	86.1	87.1	90.9	89.2	85.4	77.2	76.6	66.1	78.1
	HIGHEST DAILY MAXIMUM	71	84	78	88	92	93	94	94	91	87	84	82	94
	DATE OF OCCURRENCE	30+	15	15	13	30	04+	21	22	20+	24	26	16	AUG 22
	MEAN DAILY MINIMUM	37.0	47.7	46.1	59.6	62.5	68.9	72.4	72.8	66.3	52.3	49.5	43.9	56.6
	LOWEST DAILY MINIMUM	21	27	36	39	49	60	67	70	50	35	33	25	21
	DATE OF OCCURRENCE	03	04	10	18	23	02	15	28+	28+	28	21	27	JAN 03
	AVERAGE DRY BULB	47.7	59.2	56.8	70.6	74.3	78.0	81.7	81.0	75.9	64.8	63.1	55.0	67.3
	MEAN WET BULB	43.9	54.8	51.7	65.0	68.2	72.9	76.3		70.3	59.6	57.0	50.7	
	MEAN DEW POINT	39.7	50.7	46.2	61.3	64.8	70.9	74.7		67.8	55.9	53.1	46.2	
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	5	10	24	17	5	0	0	0	61
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	13	3	0	0	0	0	0	0	0	0	0	4	20
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	529	210	252	38	0	0	0	0	3	99	106	325	1562
	COOLING DEGREE DAYS	0	54	4	210	294	398	524	504	339	99	54	22	2502
RH	MEAN (PERCENT)	78	77	72	77	76	83	83	88	82	78	77	76	79
	HOUR 00 LST	86	87	82	91	93	96	95	97	94	93	90	87	91
	HOUR 06 LST	90	91	90	96	97	97	98	99	95	92	95	92	94
	HOUR 12 LST	65	62	57	57	54	64	66	71	63	55	53	61	61
	HOUR 18 LST	69	66	60	61	63	75	74	81	79	76	74	67	70
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	6	5	3	2	3	1	1	2	1	4	3	4	35
	THUNDERSTORMS	2	5	8	1	6	11	9	10	6	4	1	4	67
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)	30.12	30.10	29.93	30.03	29.93	29.92	29.93		29.92	30.05	30.04	30.03	
	MEAN SEA-LEVEL PRESS. (IN.)	30.19	30.17	30.00	30.11	30.01	30.00	30.00		29.99	30.12	30.12	30.11	
WINDS	RESULTANT SPEED (MPH)	1.5	3.0	0.7	4.7	3.2	1.5	0.7		1.5	2.6	2.2	1.3	
	RES. DIR. (TENS OF DEGS.)	09	13	36	15	19	14	25		07	11	14	12	
	MEAN SPEED (MPH)	5.9	7.1	6.3	7.9	7.0	5.9	4.3	3.9	4.0	5.0	5.0	5.6	5.7
	PREVAIL.DIR.(TENS OF DEGS.)	06	12	30	17	19	18	28	06	05	06	07	13	06
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	29	33	31	23	26	31	32	31	32	26	30	39	39
	DIR. (TENS OF DEGS.)	23	20	14	20	19	23	05	08	26	31	28	26	26
	DATE OF OCCURRENCE	29	16	11	11+	21	04	12	11	02	13	29	13	DEC 13
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	45	41	39	31	31	43	44	36	41	39	36	48	48
	DIR. (TENS OF DEGS.)	30	20	15	18	20	23	06	09	26	36	28	26	26
	DATE OF OCCURRENCE	29	16	11	22	21	04	12	11	02	13	29	13	DEC 13
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	4.00	1.83	7.35	0.55	0.83	21.36	3.20	5.77	7.11	5.49	0.58	4.25	62.32
	GREATEST 24-HOUR (IN.)	1.19	0.59	2.19	0.54	0.27	9.97	1.07	1.24	1.98	2.94	0.45	2.79	9.97
	DATE OF OCCURRENCE	18-19	09	02-03	24	12	06-07	11-12	05	02	13	29	13	JUN 06-07
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	7	7	13	2	5	18	12	18	8	7	5	7	109
	PRECIPITATION ≥ 0.10	7	5	8	1	5	13	6	10	8	5	1	5	74
	PRECIPITATION ≥ 1.00	2	0	4	0	0	4	0	1	4	2	0	1	18
SNOWFALL	SNOW,ICE PELLETS,HAIL:													
	TOTAL (IN.)													
	GREATEST 24-HOUR (IN.)													
	DATE OF OCCURRENCE													
	MAXIMUM SNOW DEPTH (IN.)													
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0													

METEOROLOGICAL DATA FOR 2002

BATON ROUGE, LA (BTR)

LATITUDE: 30° 32′ 14″ N | LONGITUDE: 91° 08′ 49″ W | ELEVATION (FT): GRND: 67 BARO: 70 | TIME ZONE: CENTRAL (UTC + 6) | WBAN: 13970

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	64.0	62.2	72.3	80.7	86.2	89.6	90.9	91.4	87.6	79.2	67.7	63.2	77.9
	HIGHEST DAILY MAXIMUM	84	77	87	89	93	94	94	96	95	91	84	77	96
	DATE OF OCCURRENCE	31	25+	16	29	11+	12+	22+	02	12+	01	10	18	AUG 02
	MEAN DAILY MINIMUM	41.2	38.3	48.9	60.4	63.0	69.1	72.5	71.9	71.6	64.5	46.3	40.8	57.4
	LOWEST DAILY MINIMUM	18	24	24	43	47	62	70	67	65	47	30	29	18
	DATE OF OCCURRENCE	04	28	05	06	20	15	17+	10+	28+	17+	29	07	JAN 04
	AVERAGE DRY BULB	52.6	50.3	60.6	70.6	74.6	79.4	81.7	81.7	79.6	71.9	57.0	52.0	67.7
	MEAN WET BULB	49.1	44.1	55.3	64.7	67.6	72.4	75.3	74.6	73.6	67.0	52.9	48.1	62.1
	MEAN DEW POINT	44.5	36.4	50.1	60.8	63.8	69.4	73.2	72.2	71.5	64.5	49.1	44.0	58.3
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	12	19	20	26	14	3	0	0	94
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	10	7	3	0	0	0	0	0	0	0	1	4	25
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	416	408	225	29	8	0	0	0	0	13	258	396	1753
	COOLING DEGREE DAYS	39	2	94	204	312	439	524	526	445	233	25	2	2845
RH	MEAN (PERCENT)	76	63	72	75	73	77	81	79	82	81	78	77	76
	HOUR 00 LST	86	72	83	84	87	89	93	91	92	88	87	86	86
	HOUR 06 LST	87	81	87	91	93	92	95	94	94	90	90	89	90
	HOUR 12 LST	64	49	59	61	52	59	65	60	66	69	62	63	61
	HOUR 18 LST	65	50	58	63	60	68	73	71	79	81	76	72	68
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	3	0	3	4	0	2	1	0	2	2	5	1	23
	THUNDERSTORMS	0	1	5	2	5	13	14	10	4	4	3	3	64
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)	30.05	30.12	30.01	29.98	29.94	29.89	29.96	29.92	29.82	29.90	30.04	30.02	29.97
	MEAN SEA-LEVEL PRESS. (IN.)	30.12	30.20	30.09	30.06	30.02	29.97	30.04	30.00	29.89	29.98	30.11	30.10	30.05
WINDS	RESULTANT SPEED (MPH)	1.7	1.4	3.2	2.3	1.6	1.5	0.6	1.1	1.6	1.9	0.5	0.8	1.0
	RES. DIR. (TENS OF DEGS.)	15	05	15	19	18	12	22	05	05	11	10	17	13
	MEAN SPEED (MPH)	6.5	6.6	8.6	6.7	7.2	4.8	3.6	4.4	5.6	5.3	5.5	6.6	6.0
	PREVAIL.DIR.(TENS OF DEGS.)	13	35	18	19	20	09	07	07	07	10	36	19	09
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	30	29	35	31	32	30	29	30	33	37	28	60	60
	DIR. (TENS OF DEGS.)	23	18	26	14	27	19	07	16	21	15	21	29	29
	DATE OF OCCURRENCE	24	19	31	08	17	28	22	16	20	03	10	31	DEC 31
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	37	35	44	38	38	37	37	40	40	47	35	78	78
	DIR. (TENS OF DEGS.)	23	18	26	13	26	23	08	17	21	16	21	28	28
	DATE OF OCCURRENCE	24	19	31	08	17	27	22	16	20	03	10	31	DEC 31
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	4.28	1.44	9.43	4.64	1.83	3.94	3.38	4.63	6.20	9.30	3.76	7.15	59.98
	GREATEST 24-HOUR (IN.)	1.21	0.53	3.46	4.28	1.01	1.15	0.92	2.03	3.07	2.81	1.46	2.35	4.28
	DATE OF OCCURRENCE	05	20	31	08	17	25-26	28	11	25-26	02-03	04-05	03-04	APR 08
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	11	5	8	3	6	14	15	9	16	17	10	11	125
	PRECIPITATION ≥ 0.10	7	4	6	2	4	7	7	5	12	9	9	9	81
	PRECIPITATION ≥ 1.00	1	0	3	1	1	0	0	2	2	5	1	4	20
SNOWFALL	SNOW,ICE PELLETS,HAIL:													
	TOTAL (IN.)													
	GREATEST 24-HOUR (IN.)													
	DATE OF OCCURRENCE													
	MAXIMUM SNOW DEPTH (IN.)													
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0													

METEOROLOGICAL DATA FOR 2003

BATON ROUGE, LA (BTR)

LATITUDE: 30° 32' 14" N | LONGITUDE: 91° 08' 49" W | ELEVATION (FT): GRND: 67 BARO: 70 | TIME ZONE: CENTRAL (UTC + 6) | WBAN: 13970

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	58.1	62.9	71.2	79.1	88.0	88.7	90.0	92.2	87.0	80.5	74.5	63.1	77.9
	HIGHEST DAILY MAXIMUM	75	77	81	86	93	94	92	96	94	88	86	78	96
	DATE OF OCCURRENCE	29	14	28+	18	30+	24	31+	26+	02	23	05+	28	AUG 26+
	MEAN DAILY MINIMUM	36.3	42.9	50.6	55.3	67.9	71.7	72.8	73.3	66.6	56.3	50.0	38.0	56.8
	LOWEST DAILY MINIMUM	20	32	33	38	55	68	70	68	52	45	27	27	20
	DATE OF OCCURRENCE	24	11	31	10	28	16+	27+	12	30+	28	25	07	JAN 24
	AVERAGE DRY BULB	47.2	52.9	60.9	67.2	78.0	80.2	81.4	82.8	76.8	68.4	62.3	50.6	67.4
	MEAN WET BULB	42.2	49.7	56.7	61.7	71.1	74.9	75.9	76.2	69.9	62.6	57.2	45.6	62.0
	MEAN DEW POINT	35.5	46.5	53.3	57.6	67.7	73.2	74.0	74.0	66.7	59.1	53.0	40.2	58.4
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	12	13	22	26	7	0	0	0	80
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	11	1	0	0	0	0	0	0	0	0	4	8	24
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	546	333	134	53	0	0	0	0	0	28	154	441	1689
	COOLING DEGREE DAYS	4	2	17	127	411	465	517	558	363	142	77	0	2683
RH	MEAN (PERCENT)	68	82	79	74	74	84	83	80	77	78	76	72	77
	HOUR 00 LST	77	89	89	88	89	95	94	94	90	92	92	83	89
	HOUR 06 LST	81	92	95	95	92	96	96	97	93	95	90	87	92
	HOUR 12 LST	54	75	67	55	56	69	64	62	56	56	56	55	60
	HOUR 18 LST	57	72	66	59	61	77	76	71	71	73	71	64	68
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	1	3	8	0	1	2	0	3	5	5	5	2	35
	THUNDERSTORMS	0	4	4	3	1	14	12	8	7	1	1	3	58
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)	30.16	29.96	29.86	29.91	29.85	29.82	29.96	29.92	29.91	29.93	30.03	30.08	29.95
	MEAN SEA-LEVEL PRESS. (IN.)	30.24	30.04	29.94	29.99	29.93	29.90	30.03	29.99	29.99	30.01	30.11	30.16	30.03
WINDS	RESULTANT SPEED (MPH)	1.1	0.9	0.4	1.8	2.2	1.3	1.3	1.3	2.3	1.4	1.4	0.5	0.7
	RES. DIR. (TENS OF DEGS.)	30	11	12	15	07	14	23	06	05	05	08	10	09
	MEAN SPEED (MPH)	6.5	6.8	5.3	6.7	7.3	5.2	4.7	4.7	4.3	4.6	5.8	6.4	5.7
	PREVAIL.DIR.(TENS OF DEGS.)	06	04	05	19	17	07	23	06	02	02	03	28	05
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	24	31	28	33	25	39	28	28	35	20	33	35	39
	DIR. (TENS OF DEGS.)	32	22	22	17	20	19	18	20	12	13	16	26	19
	DATE OF OCCURRENCE	16	22	20	06	17+	15	31	12	01	30+	27	09	JUN 15
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	33	37	33	38	30	47	35	32	44	24	43	41	47
	DIR. (TENS OF DEGS.)	36	21	21	18	21	19	23	15	12	30	16	25	19
	DATE OF OCCURRENCE	16	22+	20	06	17+	15	31	30+	01	14	27	09	JUN 15
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	0.52	7.26	2.14	3.18	0.45	7.38	4.85	3.23	4.47	1.63	5.49	2.62	43.22
	GREATEST 24-HOUR (IN.)	0.27	4.09	0.96	1.98	0.35	1.84	1.68	1.90	1.70	1.39	2.66	1.31	4.09
	DATE OF OCCURRENCE	29	20-21	06	07-08	17	29-30	02-03	12	12-13	09-10	26-27	29	FEB 20-21
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	3	9	8	7	2	18	14	11	9	6	6	4	97
	PRECIPITATION ≥ 0.10	2	6	4	3	2	14	9	5	7	2	3	4	61
	PRECIPITATION ≥ 1.00	0	2	0	2	0	2	2	1	1	1	2	1	14
SNOWFALL	SNOW,ICE PELLETS,HAIL:													
	TOTAL (IN.)													
	GREATEST 24-HOUR (IN.)													
	DATE OF OCCURRENCE													
	MAXIMUM SNOW DEPTH (IN.)													
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0													

METEOROLOGICAL DATA FOR 2004

BATON ROUGE, LA (BTR)

LATITUDE: 30° 32′ 14″ N | LONGITUDE: 91° 08′ 49″ W | ELEVATION (FT): GRND: 67 BARO: 70 | TIME ZONE: CENTRAL (UTC + 6) | WBAN: 13970

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	63.2	60.0	76.1	77.1	85.2	88.9	91.8	91.4	90.0	83.7	72.1	62.5	78.5
	HIGHEST DAILY MAXIMUM	79	75	82	88	92	93	99	97	95	91	86	79	99
	DATE OF OCCURRENCE	03	20	20	24+	29	18+	15	01	18	04+	01	06	JUL 15
	MEAN DAILY MINIMUM	40.7	41.9	53.1	53.5	64.7	71.8	73.4	70.4	68.7	65.5	53.0	39.6	58.0
	LOWEST DAILY MINIMUM	24	28	38	38	47	67	69	58	58	46	37	24	24
	DATE OF OCCURRENCE	28	08	11+	15	04	07	28+	15	29+	15	26	26	DEC 26
	AVERAGE DRY BULB	52.0	51.0	64.6	65.3	75.0	80.4	82.6	80.9	79.4	74.6	62.6	51.1	68.3
	MEAN WET BULB	47.4	47.8	58.6	59.7	69.0	74.7	75.8	72.7	70.6	69.7	58.6	46.4	62.6
	MEAN DEW POINT	42.3	44.3	53.5	55.7	65.9	72.7	73.5	69.1	66.8	67.4	55.7	40.6	59.0
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	4	18	24	24	17	5	0	0	92
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	11	5	0	0	0	0	0	0	0	0	0	10	26
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	412	401	77	83	10	0	0	0	0	9	122	445	1559
	COOLING DEGREE DAYS	15	0	75	99	326	467	552	501	436	313	55	16	2855
RH	MEAN (PERCENT)	74	81	72	75	77	83	78	72	71	82	81	70	76
	HOUR 00 LST	82	86	85	91	89	93	91	87	84	92	88	82	88
	HOUR 06 LST	89	91	92	94	94	95	94	90	88	95	90	84	91
	HOUR 12 LST	59	71	54	55	59	67	61	54	53	65	66	52	60
	HOUR 18 LST	64	74	58	60	67	78	70	59	61	78	81	65	68
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	5	2	9	3	2	2	1	1	0	5	3	4	37
	THUNDERSTORMS	1	7	1	4	12	22	17	11	3	4	8	3	93
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)	30.07	30.04	30.08	29.95	29.96	29.94	29.90	29.91	29.87	29.89	30.01	30.11	29.98
	MEAN SEA-LEVEL PRESS. (IN.)	30.15	30.12		30.03	30.04	30.01	29.98	29.99	29.95	29.97	30.09	30.19	
WINDS	RESULTANT SPEED (MPH)	0.9	2.2	2.6	2.2	3.5	0.9	0.3	1.0	2.8	2.8	2.0	0.8	1.2
	RES. DIR. (TENS OF DEGS.)	09	06	13	15	17	06	06	16	06	21	09	10	12
	MEAN SPEED (MPH)	6.7	7.7	7.0	6.6	6.6	4.9	3.8	4.5	5.6	6.1	6.9	6.4	6.1
	PREVAIL.DIR.(TENS OF DEGS.)	08	08	11	11	17	15	22	02	06	08	08	09	06
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	28	35	25	32	32	36	28	24	24	25	35	36	36
	DIR. (TENS OF DEGS.)	28	18	19	12	26	32	19	21	08	18	17	24	24
	DATE OF OCCURRENCE	25	05	05+	06	01	03	05	27+	23+	18	27	07	DEC 07
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	35	43	31	40	40	52	32	30	30	35	41	46	52
	DIR. (TENS OF DEGS.)	30	17	17	12	26	32	18	24	07	18	17	22	32
	DATE OF OCCURRENCE	25	05	04	06	01	03	05	20	23	18	27	07	JUN 03
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	3.76	11.44	2.42	6.70	10.64	10.41	2.03	3.06	1.47	9.02	6.60	3.14	70.69
	GREATEST 24-HOUR (IN.)	1.75	4.12	1.25	3.86	4.32	2.71	0.72	1.36	0.69	5.30	2.05	1.62	5.30
	DATE OF OCCURRENCE	29-30	04-05	14	30	12	24-25	08	11-12	12	08-09	02-03	08-09	OCT 08-09
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	9	12	5	7	12	20	13	10	4	9	10	6	117
	PRECIPITATION ≥ 0.10	6	11	4	5	10	15	5	6	3	5	10	4	84
	PRECIPITATION ≥ 1.00	1	4	1	2	3	5	0	1	0	3	2	2	24
SNOWFALL	SNOW,ICE PELLETS,HAIL:													
	TOTAL (IN.)													
	GREATEST 24-HOUR (IN.)													
	DATE OF OCCURRENCE													
	MAXIMUM SNOW DEPTH (IN.)													
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0													

RESPONSE
ATTACHMENT A29

APPENDIX 29

ENTRY OF WATER CERTIFICATION

CERTIFICATION FOR PROTECTION AGAINST ENTRY OF WATER

During the preparation of the Hazardous Waste Renewal Application, I have conducted a review of surface water drainage and topographic conditions on and around the Site. I have also reviewed the Federal Emergency Management Administration (FEMA) mapping for the area. Based on those reviews, I am providing this certification that surface water drainage from off-site areas does not impact the permitted hazardous waste units at the Site. In addition, the significant topographic relief between the permitted hazardous waste areas and adjacent water bodies (i.e., the Baton Rouge Bayou and Mississippi River) provides a natural barrier to protect against entry of water.

10/17/05

Paul G. Stratman, P.E. No. 29150

RESPONSE
ATTACHMENT A30

APPENDIX 30

WELL DATA

WELL CONSTRUCTION DATA TABLE
EXIDE BATON ROUGE SMELTER

	MW-1R	MW-4R	MW-12R	MW-13R	MW-16	MW-17	MW-18
Latitude	30°35'2"	30°35'12"	30°35'14"	30°35'4"	30°35'10"	30°35'7"	30°35'5"
Longitude	91°14'33"	91°14'43"	91°14'42"	91°14'43"	91°14'44"	91°14'45"	91°14'44"
Type	Detection	Detection	Detection	Detection	Detection	Detection	Detection
Unit Monitored	Up Gradient	Waste Pile #1	Waste Pile #1	Waste Pile #2	Waste Pile #1	Waste Pile #2	Waste Pile #2
Date Constructed	1/20/1995	12/21/1994	12/20/1994	12/28/1994	12/22/1994	12/22/1994	2/8/1995
Construction	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Sampling Method	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer
Casing Elevation (ft MSL)	85.10	46.17	50.63	78.80	48.29	53.64	76.64
Well Depth	45.00	34.00	40.00	46.70	28.00	40.00	42.00
Screen Interval, from (ft MSL)	46.10	21.50	18.80	41.10	29.20	28.90	43.90
to (ft MSL)	36.10	11.50	9.80	31.10	19.20	18.90	33.90

	MW-1A	MW-14A	MW-15A	MW-19	MW-20	MW-21
Latitude	30°35'2"	30°35'23"	30°35'20"	30°35'14"	30°35'9"	30°35'8"
Longitude	91°14'33"	91°14'38"	91°14'40"	91°14'56"	91°14'57"	91°14'51"
Type	Detection	Detection	Detection	Detection	Detection	Detection
Unit Monitored	Up Gradient	Old Landfill	Old Landfill	Landfill	Landfill	Landfill
Date Constructed	3/15/1999	3/17/1999	3/16/1999	3/30/1998	3/30/1998	3/30/1998
Construction	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Sampling Method	Bailer	Bailer	Bailer	Dedicated Bailer	Dedicated Bailer	Dedicated Bailer
Casing Elevation (ft MSL)	83.26	78.32	79.98	79.06	48.29	44.51
Well Depth	44	36	38	55	22	22
Screen Interval, from (ft MSL)	43.5	35.5	37.5	34.06	30.29	26.51
to (ft MSL)	33.5	25.5	27.5	24.06	25.29	21.51

NOTES:

1. Information from Annual Hazardous Waste Groundwater Monitoring Report dated January 2004; Old Landfill Solid Waste Semiannual Groundwater Monitoring Report for June 2004 event dated August 2004; and New Landfill Solid Waste Semiannual Groundwater Monitoring Report For June 2004 event dated August 2004.

aquaterra

FIELD LOG OF WELL NO. MW-1A

Project Number: 9701400
Project Name: EXIDE CORP. - BATON ROUGE SMELTER
Well Location: BATON ROUGE, LA

Date Completed: 3/15/99
Drill Rig: Failing 1500
By: D. JONES

Depth (ft)	Elev.	FEATURE	GENERALIZED SOIL STRATIGRAPHY
-1.25	83.26		
0	82.01	Concrete Pad (5'x5'x4")	4" Diameter, Steel Guard Posts; Ground Surface
		8" Diameter Borehole	See Soil Boring MW-1A for detailed presentation of soil conditions
		2" Diameter SCH 40 PVC Riser (flush, thrdd joints)	Water level in well @ depth 40.11 ft on 4/15/99 @ 1020 hours
		Cement/Bentonite Grout (1)	
25.0	57.01	Top of Fine Sand Pack	
		Fine Sand Pack(3)	
26.0	56.01	Top of Bentonite Seal	
		Bentonite Seal(2)	
29.0	53.01	Top of Fine Sand Pack	
		Fine Sand Pack(3)	
30.5	51.51	Top of Filter Pack	
33.5	48.51	Top of Screen	
		Filter Pack(3)	
		2" Diameter SCH 40 PVC Slotted Wellscreen (Slot Size: 0.010")	
43.5	38.51	Bottom of Screen	
44.0	38.01	Bottom of Sump	
		2" Diameter SCH 40 PVC Sump	

DEPTH (ft)

Bottom of Borehole 44 Ft.

Note: Drawing not to scale

(1) Grout Placement: TREMIE METHOD
Total Grout Mixture: 6 bags cement, 60 gal. water, 30 lbs.bent.
Grout Weight: Input: 13.1 lbs./gal
Output: N.A.

(2) Bentonite Pellets: Size: 1/2 inch Volume: 5 gallon Hydration Time: 12 hrs.

(3) Sand Placement: TREMIE METHOD
Fine Sand Pack Type: 40/80 Volume: 0.5 bags x0.91= 0.45 ft.^{3}
Filter Pack Type: 20/40 Volume: 9 bags x0.46= 8.19 ft.^{3}

Miscellaneous Information
Exterior Casing: N.A.
Centralizer Data: N.A.
Developed By: D. JONES Date: 3/17/99
Amount Drill Water Lost: 0 gallons
Method: BAILER

03-02709012

aquaterra

FIELD LOG OF WELL NO. MW-14A

Project Number: 9701400
Project Name: EXIDE CORP. - BATON ROUGE SMELTER
Well Location: BATON ROUGE, LA

Date Completed: 3/17/99
Drill Rig: Failing 1500
By: D. JONES

Depth (ft)	Elev.	FEATURE	GENERALIZED SOIL STRATIGRAPHY
-4.25	78.32		
0	74.07	Concrete Pad (5'x5'x4")	4" Diameter, Steel Guard Posts; Ground Surface
		6" Diameter Borehole	See Soil Boring MW-14A for detailed presentation of soil conditions
		2" Diameter SCH 40 PVC Riser (flush, thrdd joints)	Water level in well @ depth 33.22 ft on 4/15/99 @ 1030 hours
		Cement/Bentonite Grout (1)	
17.0	57.07	Top of Fine Sand Pack	
		Fine Sand Pack(3)	
18.0	56.07	Top of Bentonite Seal	
		Bentonite Seal(2)	
21.0	53.07	Top of Fine Sand Pack	
		Fine Sand Pack(3)	
23.0	51.07	Top of Filter Pack	
25.5	48.57	Top of Screen	
		Filter Pack(3)	
		2" Diameter SCH 40 PVC Slotted Wellscreen (Slot Size: 0.010")	
35.5	38.57	Bottom of Screen	
36.0	38.07	Bottom of Sump	
		2" Diameter SCH 40 PVC Sump	

DEPTH (ft)

Bottom of Borehole 36 Ft.

Note: Drawing not to scale

(1) Grout Placement: TREMIE METHOD
Total Grout Mixture: 3 bags cement, 30 gal. water, 20 lbs.bent.
Grout Weight: Input: 13.3 lbs./gal
Output: N.A.

(2) Bentonite Pellets: Size: 1/2 inch Volume: 2.5 gallon Hydration Time: 8 hrs.

(3) Sand Placement: TREMIE METHOD
Fine Sand Pack Type: 40/80 Volume: 1 bags x0.91= 0.91 ft.^{3}
Filter Pack Type: 20/40 Volume: 4 bags x0.46= 3.64 ft.^{3}

Miscellaneous Information
Exterior Casing: N.A.
Centralizer Data: N.A.
Developed By: D. JONES Date: 3/17/99
Amount Drill Water Lost: 0 gallons
Method: BAILER

03-02709013

aquaterra

FIELD LOG OF WELL NO. MW-15A

Project Number: 9701400
Project Name: EXIDE CORP. - BATON ROUGE SMELTER
Well Location: BATON ROUGE, LA

Date Completed: 3/16/99
Drill Rig: Failing 1500
By: D. JONES

Depth (ft)	Elev.	FEATURE	GENERALIZED SOIL STRATIGRAPHY
-2.5	79.98		
0	77.48	Concrete Pad (5'x5'x4")	4" Diameter, Steel Guard Posts; Ground Surface
		8" Diameter Borehole	See Soil Boring MW-15A for detailed presentation of soil conditions
		2" Diameter SCH 40 PVC Riser (flush, thrdd joints)	Water level in well @ depth 34.55 ft on 4/15/99 @ 1040 hours
		Cement/Bentonite Grout (1)	
19.0	58.48	Top of Fine Sand Pack	
		Fine Sand Pack(3)	
20.0	57.48	Top of Bentonite Seal	
		Bentonite Seal(2)	
24.0	53.48	Top of Fine Sand Pack	
		Fine Sand Pack(3)	
25.5	51.98	Top of Filter Pack	
27.5	49.98	Top of Screen	
		Filter Pack(3)	
		2" Diameter SCH 40 PVC Slotted Wellscreen (Slot Size: 0.010")	
37.5	39.98	Bottom of Screen	
38.0	39.48	Bottom of Sump	
		2" Diameter SCH 40 PVC Sump	

DEPTH (ft)

Bottom of Borehole 40.0 Ft.

Note: Drawing not to scale

(1) Grout Placement: TREMIE METHOD
Total Grout Mixture: 4 bags cement, 40 gal. water, 25 lbs.bent.
Grout Weight: Input: 13.5 lbs./gal Output: N.A.

(2) Bentonite Pellets: Size: 1/2 Inch Volume: 5 gallon Hydration Time: 12 hrs.

(3) Sand Placement: TREMIE METHOD
Fine Sand Pack Type: 40/80 Volume: 1 bags x0.91= 0.91 ft.^{3}
Filter Pack Type: 20/40 Volume: 9 bags x0.46= 8.19 ft.^{3}

Miscellaneous Information
Exterior Casing: N.A.
Centralizer Data: N.A.
Developed By: D. JONES Date: 3/17/99
Amount Drill Water Lost: 0 gallons
Method: BAILER

03-02709014

Select Wells

Registered Water Wells

Public Works & Water Resources Division
Water Resources Section

Wells located within 2 mile radius of Latitude 30°35'06" and Longitude 91°14'34" – Exide Production Well No. 967

Parish	Section	Owner Name	DOTD Well #	Owner Well #	Driller's Name	Well Depth (ft)	Well Use	Casing Size (in)	Drill Date	Water Level (ft)	W.L. Date Measured	Geologic Unit	Latitude	Longitude	Avail Info	Distance in Miles
East Baton Rouge	044	TOTAL WOOD REC	- 428		LAMBERT'S	190	PUBLIC SUPPLY	2	01/94	46	01/14/94	11204BR	303456	911255	D W	1.64
East Baton Rouge	086	MCVEA	- 457		SUMMERS, D. K.	913	DOMESTIC	4	08/47	80	00/00/58	12112BR	303518	911234	M W	1.99
East Baton Rouge	044	CAPITAL WTR COR	- 460		CLEMARD	460	DESTROYED	4	08/47	40	08/01/47	11206BR	303440	911257	Q W	1.67
East Baton Rouge	044	ACME BRICK	- 464		CLEMARD	280	DESTROYED	4	1947	55	00/00/47	11204BR	303453	911252	W	1.70
East Baton Rouge	044	ACME BRICK	- 515	2	UNKNOWN	280	PLUGGED	4	1958			11204BR	303451	911250		1.74
East Baton Rouge	044	UNION TANK CAR	- 645		EBERHART	2579	INDUSTRIAL	12X8	11/57	+35	12/05/57	12228BR	303500	911405	ED Q W	0.49
East Baton Rouge	083	KAISER ALUMINUM	- 675		AIRHART	720	ABANDONED	2	05/56	67	05/01/56	12110BR	303558	911432	E W	1.00
East Baton Rouge	044	SCHUYLKILL META	- 748	1	SUMMERS, D. K.	1277	INDUSTRIAL	6X4	03/60	41	03/10/60	12115BR	303507	911434	D W	0.02
East Baton	044	U S GEOL SURVEY	- 898		U.S.G.S.	101	PLUGGED	1.25	10/72	29.72	01/14/73	112SLBR	303512	911259	D Q W	1.57

Rouge																	
East Baton Rouge	044	PROOF-COAT	- 937		HERRINGTON	336	PLUGGED	6	1967	40.63	05/28/74	11204BR	303445	911256	W	1.66
East Baton Rouge	044	EXIDE CORP	- 967	2	SUMMERS BROS	1920	PLUGGED	8X4	05/70	57	05/18/70	12224BR	303506	911434	D W	0.00
East Baton Rouge	044	REYNOLDS METALS	- 979	2	LAYNE (LA)	1300	PLUGGED	12X6	09/70	112	05/21/74	12115BR	303456	911428	DM PW	0.22
East Baton Rouge	044	REYNOLDS METALS	- 980	1	EBERHART	1270	PLUGGED	12X6	07/62	116	02/29/76	12115BR	303504	911428	D W	0.11
East Baton Rouge	044	SCHUYLKILL META	-1020	3	SUMMERS, D. K.	2441	INDUSTRIAL	10X6X4	07/79	94	06/15/79	12226BR	303502	911434	ED W	0.08
East Baton Rouge	044	UNION TANK CAR	-1034	2	EBERHART	2608	INDUSTRIAL	10X6	01/82	70	12/11/81	12228BR	303501	911405	ED W	0.49
East Baton Rouge	044	REYNOLDS METALS	-1048	3	LAYNE (LA)	1288	INDUSTRIAL	12X6X6	01/83	126	01/31/83	12115BR	303456	911428	EDM W	0.22
East Baton Rouge	044	PETRO PROCESSOR	-1078		UNKNOWN	230	PLUGGED	4	.	60.75	08/06/84	11204BR	303454	911431	Q W	0.23
East Baton Rouge	044	U S GEOL SURVEY	-1086		U.S.G.S.	25	PLUGGED	2	01/85	8.05	02/12/85	112SLBR	303512	911259	D Q W	1.57
East Baton Rouge	079	U S GEOL SURVEY	-1087		U.S.G.S.	44	DESTROYED	2	01/85	17.21	02/12/85	112SLBR	303641	911346	D Q W	1.98
East Baton Rouge	044	U S GEOL SURVEY	-1088		U.S.G.S.	30	PLUGGED	2	01/85	12.58	02/14/85	112SLBR	303444	911315	D Q W	1.37
East Baton Rouge	044	U S GEOL SURVEY	-1089		U.S.G.S.	20	PLUGGED	2	01/85	1.75	02/14/85	112SLBR	303442	911316	D Q W	1.36
East Baton Rouge	044	NPC SERVICES	-1097	BRW-1	CAPOZZOLI	42	PLUGGED	4	03/85	27.99	05/08/85	112SLBR	303458	911435	D W	0.15
East Baton	044	NPC	-1098	BRW-2	CAPOZZOLI	42	PLUGGED	4	04/85	10.45	05/08/85	112SLBR	303448	911429	D W	0.35

Rouge		SERVICES														
East Baton Rouge	044	NPC SERVICES	-1099	BRW-3	CAPOZZOLI	63	PLUGGED	4	04/85	6.46	05/08/85	112SLBR	303447	911430	D W	0.37
East Baton Rouge	044	NPC SERVICES	-1100	SDG-1	CAPOZZOLI	73	MONITOR	4	01/85	10.43	03/14/85	112SLBR	303502	911454	D W	0.34
East Baton Rouge	044	NPC SERVICES	-1101	SDG-2	GDC	78	MONITOR	4	01/85	8.72	03/14/85	112SLBR	303449	911438	D W	0.33
East Baton Rouge	045	NPC SERVICES	-1102	SDG-3	CAPOZZOLI	80	MONITOR	4X4	01/85	8.79	03/14/85	112SLBR	303444	911436	D W	0.42
East Baton Rouge	045	NPC SERVICES	-1103	SDG-4	CAPOZZOLI	82	MONITOR	4X4	01/85	12.23	03/14/85	112SLBR	303444	911423	D W	0.46
East Baton Rouge	044	NPC SERVICES	-1104	SUG-1	CAPOZZOLI	109	MONITOR	4X4	02/85	45.53	03/14/85	112SLBR	303502	911440	D W	0.12
East Baton Rouge	044	NPC SERVICES	-1105	SUG-2	CAPOZZOLI	114	MONITOR	4X4	02/85	51.22	03/14/85	112SLBR	303454	911428	D W	0.25
East Baton Rouge	044	NPC SERVICES	-1106	SB-2	CAPOZZOLI	27	PLUGGED	2	05/85	29.05	07/31/85	112SLBR	303518	911421	ED W	0.31
East Baton Rouge	044	NPC SERVICES	-1107	SB-3	CAPOZZOLI	119	PLUGGED	2	05/85	45.01	07/31/85	112SLBR	303517	911415	ED W	0.38
East Baton Rouge	044	NPC SERVICES	-1108	SB-4	CAPOZZOLI	29	PLUGGED	2	05/85	27.50	07/31/85	112SLBR	303510	911403	ED W	0.52
East Baton Rouge	044	NPC SERVICES	-1109	SB-5	CAPOZZOLI	33	PLUGGED	2	05/85	31.06	07/31/85	112SLBR	303518	911407	ED W	0.50
East Baton Rouge	044	NPC SERVICES	-1110	VB-1	CAPOZZOLI	106	MONITOR	4	07/85	47.94	07/31/85	112SLBR	303513	911428	ED W	0.17
East Baton Rouge	044	NPC SERVICES	-1111	VB-3A	GDC	19	PLUGGED	2	07/85			112SLBR	303515	911422	ED	0.26
East Baton	044	NPC	-1112	VB-6	CAPOZZOLI	36	PLUGGED	2	06/85	28.47	07/31/85	112SLBR	303513	911413	ED W	0.37

Rouge		SERVICES														
East Baton Rouge	044	NPC SERVICES	-1113	VB-7	CAPOZZOLI	122	PLUGGED	2	06/85	47.02	07/31/85	112SLBR	303511	911408	ED W	0.44
East Baton Rouge	044	NPC SERVICES	-1114	VB-8	CAPOZZOLI	30	PLUGGED	2	06/85	29.80	07/31/85	112SLBR	303514	911409	ED W	0.44
East Baton Rouge	044	NPC SERVICES	-1115	VB-9	CAPOZZOLI	112	MONITOR	4	07/85	35.48	07/31/85	112SLBR	303509	911401	ED W	0.55
East Baton Rouge	044	NPC SERVICES	-1116	VB-10	CAPOZZOLI	27	PLUGGED	2	06/85	29.50	07/31/85	112SLBR	303513	911400	ED W	0.58
East Baton Rouge	044	NPC SERVICES	-1117	VB-14	GDC	35	PLUGGED	2	06/85	33.99	07/31/85	112SLBR	303519	911405	ED W	0.54
East Baton Rouge	044	NPC SERVICES	-1118	VB-15	GDC	116	PLUGGED	2	07/85	43.47	07/31/85	112SLBR	303520	911401	ED W	0.61
East Baton Rouge	044	NPC SERVICES	-1119	VB-15A	GDC	95	PLUGGED	2	07/85	38.27	07/31/85	112SLBR	303520	911401	ED W	0.61
East Baton Rouge	044	NPC SERVICES	-1120	VB-16A	GDC	32	PLUGGED	2	06/85	32.80	07/31/85	112SLBR	303521	911409	ED W	0.50
East Baton Rouge	044	NPC SERVICES	-1121	VB-19	GDC	104	PLUGGED	2	07/85	41.61	07/31/85	112SLBR	303518	911416	ED W	0.37
East Baton Rouge	044	NPC SERVICES	-1122	VB-20	POPE	285	PLUGGED	2	07/85	57.27	07/31/85	11204BR	303517	911413	ED W	0.40
East Baton Rouge	044	NPC SERVICES	-1124	SDG-1	CAPOZZOLI	103	MONITOR	4X4	12/84	21.66	01/08/85	112SLBR	303521	911310	ED W	1.41
East Baton Rouge	044	NPC SERVICES	-1125	SDG-2	CAPOZZOLI	108	MONITOR	4X4	04/85	15.55	04/20/85	112SLBR	303516	911311	ED W	1.38
East Baton Rouge	044	NPC SERVICES	-1126	SDG-3	CAPOZZOLI	86	MONITOR	4X4	02/85	10.01	03/12/85	112SLBR	303512	911309	ED W	1.40
East Baton	044	NPC	-1127	SDG-4	CAPOZZOLI	94	MONITOR	4	01/85	10.05	03/12/85	112SLBR	303511	911306	ED W	1.45

Rouge		SERVICES														
East Baton Rouge	044	NPC SERVICES	-1128	SUG-1	CAPOZZOLI	107	MONITOR	4X4	12/84	11.44	01/08/85	112SLBR	303521	911307	ED W	1.46
East Baton Rouge	044	NPC SERVICES	-1129	SUG-2	CAPOZZOLI	115	MONITOR	4X4	02/85	24.50	03/12/85	112SLBR	303513	911300	ED W	1.55
East Baton Rouge	044	KAISER ENERGY	-1131		GUICHARD	949	RIG SUPPLY	4	09/85	105	09/30/85	12112BR	303522	911323	D W	1.21
East Baton Rouge	044	NPC SERVICES	-1140	BM-5D	STAMM-SCHEELE	215	PLUGGED	2X2	12/84	15.67	01/08/85	11204BR	303448	911417	D W	0.44
East Baton Rouge	044	NPC SERVICES	-1141	BM-55	STAMM-SCHEELE	154	PLUGGED	2	12/84	13.58	01/08/85	11204BR	303448	911417	DM W	0.44
East Baton Rouge	044	NPC SERVICES	-1142	DDG1	STAMM-SCHEELE	420	OBSERVATION	6	02/85	27	02/11/85	11204BR	303507	911306	DM W	1.45
East Baton Rouge	044	NPC SERVICES	-1143	DDG2	STAMM-SCHEELE	410	OBSERVATION	12X4	01/85	27.80	01/26/85	11204BR	303506	911304	DM W	1.48
East Baton Rouge	044	NPC SERVICES	-1144	DUG-1	STAMM-SCHEELE	340	MONITOR	12X4	01/85	27.86	02/08/85	11204BR	303520	911309	D W	1.43
East Baton Rouge	045	NPC SERVICES	-1145	DDG-1	STAMM-SCHEELE	285	MONITOR	4	02/85	15	02/17/85	11204BR	303438	911437	D W	0.54
East Baton Rouge	045	NPC SERVICES	-1146	DDG2	STAMM-SCHEELE	330	OBSERVATION	6	01/85	14.50	01/03/85	11204BR	303437	911418	D W	0.61
East Baton Rouge	044	NPC SERVICES	-1147	DUG-1	STAMM-SCHEELE	406	MONITOR	4	02/85	14	02/25/85	11204BR	303452	911426	D W	0.30
East Baton Rouge	044	RICE-CARDEN	-1152	1	STAMM-SCHEELE	1231	INDUSTRIAL	6X4X4	05/87	122	05/26/87	12115BR	303455	911417	EDM BPW	0.35
East Baton Rouge	044	KAISER ENERGY	-1154	KAISER AL1	GRINER	975	PLUGGED	4	04/86	80	04/30/86	12112BR	303538	911509	D W	0.84
East Baton	044	REYNOLDS	-1155		EBERHART	1296	INDUSTRIAL	12X8	08/87	120.5	08/19/87	12115BR	303502	911424	ED W	0.18

Rouge		METALS														
East Baton Rouge	044	NPC SERVICES	-1166	DDG-1	WARE LIND	300	MONITOR	4	12/87	78.4	11/29/87	11204BR	303511	911415	ED W	0.33
East Baton Rouge	044	NPC SERVICES	-1167	DDG-2	WARE LIND	300	MONITOR	4	12/87	82.0	12/10/87	11204BR	303509	911403	ED W	0.51
East Baton Rouge	044	NPC SERVICES	-1168	DUG-1	WARE LIND	300	MONITOR	4	12/87	78.3	12/11/87	11204BR	303521	911415	ED W	0.42
East Baton Rouge	044	ANTON PLASTICS	-1184		LAMBERT'S	195	INDUSTRIAL	4	05/88	35	06/01/88	11204BR	303451	911253	D W	1.69
East Baton Rouge	044	NPC SERVICES	-1260	P-2303	STAMM-SCHEELE	1252	INDUSTRIAL	10X8X8X8	01/94	94	02/09/94	12115BR	303503	911450	EDM PW	0.27
East Baton Rouge	082	JESTC-STATE	-1314	#2 POTABLE	LAYNE (BR)	2003	PUBLIC SUPPLY	10	06/02	78	06/19/02	12224BR	303552	911527	EDMQB W	1.24
East Baton Rouge	044	CHEVRON	-5021Z	KAISER 1	BROWN, H.	285	PLUGGED		04/82			11204BR	303509	911254		1.65
East Baton Rouge	045	MARTIN EXPLOR	-5034Z	EWELL 2	GUICHARD	336	PLUGGED		07/82			11204BR	303438	911405		0.72
East Baton Rouge	083	KAISER ALUMINUM	-5093Z		UNKNOWN	105	PLUGGED		12/78			112UPTC	303558	911442		1.00
East Baton Rouge	044	KAISER ENERGY	-5098Z	KAISER 1	BROWN, H.	205	PLUGGED	4	05/84	60	05/18/84	11204BR	303522	911332	D W	1.07
East Baton Rouge	083	KAISER ALUMINUM	-5103Z		UNKNOWN	58	PLUGGED	2	.			112SLBR	303558	911432		1.00
East Baton Rouge	048	ROLLINS ENV SER	-5120Z	GM15-A	SOIL TESTING	40	MONITOR	2	07/84			112SESC	303353	911313		1.93
East Baton Rouge	048	ROLLINS ENV SER	-5121Z	GM15-B	SOIL TESTING	64	MONITOR	2	07/84			112SESC	303353	911313		1.93
East Baton	048	ROLLINS ENV	-	9C-R	WARE LIND	136	MONITOR	4	12/85			112SLBR	303435	911302	D	1.63

Rouge		SER	5188Z													
East Baton Rouge	048	ROLLINS ENV SER	- 5212Z	9C	EUSTIS	130	PLUGGED		02/86			11200NWM	303407	911258		1.94
East Baton Rouge	044	NPC SERVICES	- 5213Z	GM-1	GERAGHTY	34	PLUGGED		07/81			112SESC	303521	911304		1.51
East Baton Rouge	044	NPC SERVICES	- 5215Z	GM-2S	GERAGHTY	37	PLUGGED		07/81			112SESC	303513	911300		1.55
East Baton Rouge	044	NPC SERVICES	- 5216Z	GM-3	GERAGHTY	21	PLUGGED		07/81			112SESC	303507	911300		1.55
East Baton Rouge	044	NPC SERVICES	- 5217Z	BL-2	UNDERGROUND	26	PLUGGED		12/81			112SESC	303448	911437		0.35
East Baton Rouge	044	NPC SERVICES	- 5218Z	BL-5	UNDERGROUND	33	PLUGGED		11/81			112SESC	303445	911436		0.40
East Baton Rouge	044	NPC SERVICES	- 5219Z	GM-7	GERAGHTY	49	PLUGGED		05/81			112SESC	303445	911436		0.40
East Baton Rouge	044	NPC SERVICES	- 5220Z	GM-8D	GERAGHTY	49	PLUGGED		05/81			112SESC	303448	911438		0.35
East Baton Rouge	045	NPC SERVICES	- 5221Z	P-16	CAPOZZOLI	98	PLUGGED		08/82			112SLBR	303442	911441		0.47
East Baton Rouge	044	NPC SERVICES	- 5279Z	P-930-1	LAYNE (ENV)	35	PIEZOMETER	2	11/91	18	11/09/91	112SESC	303448	911434	D W	0.34
East Baton Rouge	044	NPC SERVICES	- 5280Z	P-1030-5	LAYNE (ENV)	85	PIEZOMETER	2	11/91	16	11/23/91	112SESC	303448	911434	D W	0.34
East Baton Rouge	044	NPC SERVICES	- 5281Z	W-0511-1	LAYNE (ENV)	38	PLUGGED	4	03/92	10	03/13/92	112SESC	303448	911434	D W	0.34
East Baton Rouge	044	NPC SERVICES	- 5282Z	W-0514-1	LAYNE (ENV)	58	PLUGGED	4	03/92	10	03/28/92	112SESC	303448	911434	D W	0.34
East Baton	044	NPC	-	W-0516-1	LAYNE (ENV)	92	PLUGGED	4	03/92	20	03/09/92	112SESC	303448	911434	D W	0.34

Rouge		SERVICES	5283Z													
East Baton Rouge	044	NPC SERVICES	- 5284Z	W-0521-1	LAYNE (ENV)	58	PLUGGED	4	02/92	14	02/29/92	112SESC	303448	911434	D W	0.34
East Baton Rouge	044	NPC SERVICES	- 5285Z	W-0610-1	LAYNE (ENV)	78	PLUGGED	4	03/92	12	03/19/92	112SESC	303448	911434	D W	0.34
East Baton Rouge	044	NPC SERVICES	- 5286Z	W-0626-1	LAYNE (ENV)	68	RECOVERY	4	12/91	21	12/14/91	112SESC	303448	911434	D W	0.34
East Baton Rouge	044	NPC SERVICES	- 5287Z	W-0821-1	LAYNE (ENV)	63	RECOVERY	4	02/92	16	02/29/92	112SESC	303448	911434	D W	0.34
East Baton Rouge	044	NPC SERVICES	- 5288Z	W-0825-1	LAYNE (ENV)	68	RECOVERY	4	10/91	11	10/17/91	112SESC	303452	911433	D W	0.27
East Baton Rouge	044	NPC SERVICES	- 5289Z	W-0825-1	LAYNE (ENV)	68	RECOVERY	4	10/91	10	10/16/91	112SESC	303452	911433	D W	0.27
East Baton Rouge	044	NPC SERVICES	- 5290Z	W-1024-1	LAYNE (ENV)	76	RECOVERY	4	02/92	12	02/09/92	112SESC	303448	911434	D W	0.34
East Baton Rouge	044	NPC SERVICES	- 5291Z	W-1119-1	LAYNE (ENV)	73	RECOVERY	4	02/92	12	02/21/92	112SESC	303448	911434	D W	0.34
East Baton Rouge	044	NPC SERVICES	- 5292Z	W-1121-1	LAYNE (ENV)	55	RECOVERY	4	02/92	14	02/13/92	112SESC	303448	911434	D W	0.34
East Baton Rouge	044	NPC SERVICES	- 5293Z	W-1124-1	LAYNE (ENV)	78	PLUGGED	4	02/92	12	02/24/92	112SESC	303448	911434	D W	0.34
East Baton Rouge	044	NPC SERVICES	- 5294Z	W-1126-1	LAYNE (ENV)	58	RECOVERY	4	10/91	10	10/29/92	112SESC	303452	911433	D W	0.27
East Baton Rouge	044	NPC SERVICES	- 5295Z	WT-08	LAYNE (ENV)	44	RECOVERY	4	12/91	14	12/20/91	112SESC	303448	911434	D W	0.34
East Baton Rouge	033	ROLLINS ENV SER	- 5296Z	P-48A	ENCOR	12	PIEZOMETER	2	03/92	1.3	03/27/92	112SESC	303422	911308	D W	1.65
East Baton	033	ROLLINS ENV	-	P-49A	ENCOR	12	PIEZOMETER	2	03/92	2.9	03/27/92	112SESC	303422	911317	D W	1.52

Rouge		SER	5297Z													
East Baton Rouge	044	NPC SERVICES	- 5298Z	P-1030-1	LAYNE (ENV)	85	PIEZOMETER	2	09/91	18	09/12/91	112SESC	303448	911431	D W	0.35
East Baton Rouge	044	NPC SERVICES	- 5365Z	BRW-4	WARE LIND	30	PLUGGED	4	03/86	0.7	03/26/86	112SESC	303448	911430	D W	0.35
East Baton Rouge	044	NPC SERVICES	- 5366Z	BRW-5	WARE LIND	40	PLUGGED	4	03/86	0	03/27/86	112SESC	303449	911430	D W	0.33
East Baton Rouge	044	NPC SERVICES	- 5367Z	BRW-6	WARE LIND	15	PLUGGED	4	03/86	3.4	03/25/86	112SESC	303447	911429	D W	0.37
East Baton Rouge	044	NPC SERVICES	- 5368Z	BRW-7	WARE LIND	47	PLUGGED	4	03/86	8.7	03/28/86	112SLBR	303448	911431	D W	0.35
East Baton Rouge	044	NPC SERVICES	- 5369Z	BRW-8	WARE LIND	40	PLUGGED	4	03/86	8.2	03/31/86	112SLBR	303448	911431	D W	0.35
East Baton Rouge	044	NPC SERVICES	- 5370Z	BRW-9	WARE LIND	63	PLUGGED	4	03/86	9.7	04/01/86	112SLBR	303448	911432	D W	0.35
East Baton Rouge	044	NPC SERVICES	- 5371Z	BRW-10	WARE LIND	25	PLUGGED	4	03/86	2.2	04/02/86	112SESC	303448	911428	D W	0.36
East Baton Rouge	044	NPC SERVICES	- 5420Z	PBB11-20	LAYNE (ENV)	27	PIEZOMETER	2	12/91	9	12/06/91	112SESC	303439	911422	D W	0.55
East Baton Rouge	044	NPC SERVICES	- 5421Z	PBB11-30	LAYNE (ENV)	27	PIEZOMETER	2	12/91	8	12/04/91	112SESC	303439	911422	D W	0.55
East Baton Rouge	044	NPC SERVICES	- 5422Z	PBB11-40	LAYNE (ENV)	27	PIEZOMETER	2	12/91	7	12/07/91	112SESC	303439	911422	D W	0.55
East Baton Rouge	044	NPC SERVICES	- 5423Z	PBB21-1	LAYNE (ENV)	42	PIEZOMETER	4	11/91	9	11/17/91	112SESC	303445	911429	D W	0.41
East Baton Rouge	044	NPC SERVICES	- 5424Z	PBB21-N-10	LAYNE (ENV)	37	PIEZOMETER	2	11/91	7	11/16/91	112SESC	303444	911428	D W	0.43
East Baton	044	NPC	-	PBB21-	LAYNE (ENV)	37	PIEZOMETER	2	11/91	9	11/16/91	112SESC	303444	911428	D W	0.43

Rouge		SERVICES	5425Z	1N10												
East Baton Rouge	044	NPC SERVICES	- 5426Z	P-0626-1	LAYNE (ENV)	75	PIEZOMETER	2	12/91	9	12/18/91	112SESC	303453	911431	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 5427Z	P-0626-2	LAYNE (ENV)	61	PIEZOMETER	2	12/91	23	12/17/91	112SESC	303453	911431	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 5428Z	P-0626-3	LAYNE (ENV)	70	PIEZOMETER	2	12/91	21	12/27/91	112SESC	303453	911431	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 5429Z	P-0626-4	LAYNE (ENV)	45	PIEZOMETER	2	12/91	12	12/22/91	112SESC	303453	911431	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 5430Z	P-0626-5	LAYNE (ENV)	68	PIEZOMETER	2	01/92	19	01/11/92	112SESC	303453	911431	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 5431Z	P-0626-6	LAYNE (ENV)	42	PIEZOMETER	2	01/92	11	01/14/92	112SESC	303453	911431	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 5432Z	P-0626-7	LAYNE (ENV)	65	PIEZOMETER	2	01/92	18	01/06/92	112SESC	303453	911432	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 5433Z	P-0626-8	LAYNE (ENV)	40	PIEZOMETER	2	12/91	18	01/02/92	112SESC	303453	911432	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 5434Z	P-930-2	LAYNE (ENV)	70	PIEZOMETER	2	11/91	48	11/13/91	112SESC	303448	911430	D W	0.35
East Baton Rouge	044	NPC SERVICES	- 5435Z	P-930-3	LAYNE (ENV)	40	PIEZOMETER	2	11/91	21	11/14/91	112SESC	303448	911430	D W	0.35
East Baton Rouge	044	NPC SERVICES	- 5436Z	P-1030-1	LAYNE (ENV)	85	PIEZOMETER	2	11/91	23	11/16/91	112SESC	303448	911430	D W	0.35
East Baton Rouge	044	NPC SERVICES	- 5437Z	P-1030-2	LAYNE (ENV)	85	PIEZOMETER	2	11/91	23	11/21/91	112SESC	303448	911431	D W	0.35
East Baton Rouge	044	NPC SERVICES	- 5438Z	P-1030-3	LAYNE (ENV)	40	PIEZOMETER	2	11/91	14	11/26/91	112SESC	303448	911430	D W	0.35
East Baton	044	NPC	-	P-1030-4	LAYNE (ENV)	40	PIEZOMETER	2	11/91	16	11/17/91	112SESC	303448	911430	D W	0.35

Rouge		SERVICES	5439Z														
East Baton Rouge	044	NPC SERVICES	- 5440Z	W-0626-1	LAYNE (ENV)	68	RECOVERY	4	12/91	21	12/14/91	112SESC	303452	911431	D W	0.27
East Baton Rouge	044	NPC SERVICES	- 5441Z	W-0924-1	LAYNE (ENV)	86	RECOVERY	4	01/92	23	01/26/92	112SESC	303451	911435	D W	0.29
East Baton Rouge	044	NPC SERVICES	- 5442Z	W-1025-1	LAYNE (ENV)	83	PLUGGED	4	11/91	13	11/08/91	112SESC	303450	911435	D W	0.31
East Baton Rouge	044	NPC SERVICES	- 5443Z	W-1127-1	LAYNE (ENV)	75	PLUGGED	4	12/91	23	12/08/91	112SESC	303448	911433	D W	0.34
East Baton Rouge	044	NPC SERVICES	- 5444Z	W-1127-2	LAYNE (ENV)	73	PLUGGED	4	10/91	21	10/27/91	112SESC	303447	911434	D W	0.36
East Baton Rouge	044	REYNOLDS METALS	- 5453Z	MW-1	ENVIROCORP	34	MONITOR	4	09/86	18.7	09/05/86	112SESC	303509	911436	D W	0.07
East Baton Rouge	044	REYNOLDS METALS	- 5454Z	MW-2	ENVIROCORP	34	MONITOR	4	09/86	24.5	09/05/86	112SESC	303510	911437	D W	0.09
East Baton Rouge	044	REYNOLDS METALS	- 5455Z	MW-3	ENVIROCORP	36	MONITOR	4	09/86	20.7	09/05/86	112SESC	303508	911437	D W	0.06
East Baton Rouge	044	REYNOLDS METALS	- 5456Z	MW-4	ENVIROCORP	33	MONITOR	4	09/86	22	09/05/86	112SESC	303507	911436	D W	0.04
East Baton Rouge	044	SCHUYLKILL META	- 5470Z	W-4	UNKNOWN	30	PLUGGED		.			112SESC	303512	911443		0.19
East Baton Rouge	044	SCHUYLKILL META	- 5471Z	W-4A	GDC	30	PLUGGED	2	01/87			112SESC	303512	911443	D	0.19
East Baton Rouge	044	SCHUYLKILL META	- 5472Z	W-10A	UNKNOWN	50	PLUGGED		.			112SESC	303513	911436		0.14
East Baton Rouge	044	EXIDE TECHNOLOG	- 5473Z	MW-14	GDC	60	PLUGGED	2	01/87			112SESC	303515	911434	D	0.17
East Baton	044	EXIDE	-	MW-15	GDC	46	PLUGGED	2	01/87			112SESC	303514	911436	D	0.16

Rouge		TECHNOLOG	5474Z														
East Baton Rouge	044	MACDAVIS, GEO	- 5480Z		ECONOMY	250	DOMESTIC	2	09/86	40	09/17/86	11204BR	303521	911259	D W	1.59
East Baton Rouge	084	DAVIS, DUMAS	- 5487Z		ECONOMY	230	DOMESTIC	2	09/86	40	09/26/86	11204BR	303551	911323	D W	1.45
East Baton Rouge	044	NPC SERVICES	- 5511Z	BL-1B	UNKNOWN	56	PLUGGED		.			112SESC	303458	911435		0.15
East Baton Rouge	044	NPC SERVICES	- 5512Z	BM-1D	UNKNOWN	44	PLUGGED		.			112SESC	303452	911440		0.29
East Baton Rouge	044	NPC SERVICES	- 5513Z	BM-1S	UNKNOWN	21	PLUGGED		.			112SESC	303452	911440		0.29
East Baton Rouge	044	NPC SERVICES	- 5514Z	BM-2D	UNKNOWN	55	PLUGGED		.			112SESC	303455	911446		0.29
East Baton Rouge	044	NPC SERVICES	- 5515Z	BM-2S	UNKNOWN	21	PLUGGED		.			112SESC	303455	911446		0.29
East Baton Rouge	044	NPC SERVICES	- 5516Z	BM-3S	UNKNOWN	30	PLUGGED		.			112SESC	303443	911426		0.46
East Baton Rouge	044	NPC SERVICES	- 5517Z	BTW-1A	UNKNOWN	37	PLUGGED		.			112SESC	303444	911427		0.44
East Baton Rouge	044	NPC SERVICES	- 5518Z	BTW-2	UNKNOWN	88	PLUGGED		.			112SESC	303452	911438		0.28
East Baton Rouge	044	NPC SERVICES	- 5519Z	GM-1D	UNKNOWN	109	PLUGGED		.			112SLBR	303503	911441		0.13
East Baton Rouge	044	NPC SERVICES	- 5520Z	GM-1S	UNKNOWN	72	PLUGGED		.			112SESC	303503	911441		0.13
East Baton Rouge	044	NPC SERVICES	- 5521Z	GM-2D	UNKNOWN	121	PLUGGED		.			112SLBR	303455	911430		0.22
East Baton	044	NPC	-	GM-2S	UNKNOWN	68	PLUGGED		.			112SESC	303455	911430		0.22

Rouge		SERVICES	5522Z													
East Baton Rouge	044	NPC SERVICES	- 5523Z	GM-1R	UNKNOWN	30	PLUGGED		.			112SESC	303526	911306		1.50
East Baton Rouge	044	NPC SERVICES	- 5524Z	GM-4	UNKNOWN	20	PLUGGED		.			112SESC	303517	911308		1.43
East Baton Rouge	044	NPC SERVICES	- 5525Z	GM-4D	UNKNOWN	82	PLUGGED		.			112SESC	303446	911426		0.40
East Baton Rouge	044	NPC SERVICES	- 5526Z	GM-6	UNKNOWN	19	PLUGGED		.			112SESC	303520	911312		1.38
East Baton Rouge	044	NPC SERVICES	- 5527Z	GM-7	UNKNOWN	24	PLUGGED		.			112SESC	303521	911312		1.38
East Baton Rouge	044	NPC SERVICES	- 5528Z	GM-7R	UNKNOWN	56	PLUGGED		.			112SESC	303450	911436		0.31
East Baton Rouge	044	NPC SERVICES	- 5529Z	GM-8DR	UNKNOWN	53	PLUGGED		.			112SESC	303452	911438		0.28
East Baton Rouge	044	NPC SERVICES	- 5530Z	GM-8S	UNKNOWN	18	PLUGGED		.			112SESC	303516	911308		1.43
East Baton Rouge	044	NPC SERVICES	- 5531Z	GM-9	UNKNOWN	27	PLUGGED		.			112SESC	303456	911445		0.26
East Baton Rouge	044	NPC SERVICES	- 5532Z	GM-9D	UNKNOWN	95	PLUGGED		.			112SESC	303517	911310		1.40
East Baton Rouge	044	NPC SERVICES	- 5533Z	GM-9S	UNKNOWN	20	PLUGGED		.			112SESC	303517	911310		1.40
East Baton Rouge	044	NPC SERVICES	- 5534Z	GM-12	UNKNOWN	31	PLUGGED		.			112SESC	303446	911432		0.38
East Baton Rouge	044	NPC SERVICES	- 5535Z	P-14	UNKNOWN	105	PLUGGED		.			112SLBR	303445	911425		0.43
East Baton	044	NPC	-	P-17	UNKNOWN	78	PLUGGED		.			112SESC	303451	911428		0.30

Rouge		SERVICES	5536Z													
East Baton Rouge	044	NPC SERVICES	- 5537Z	P-18	UNKNOWN	97	PLUGGED		.			112SESC	303445	911421		0.46
East Baton Rouge	044	NPC SERVICES	- 5538Z	SB-1A	UNKNOWN	27	PLUGGED		.			112SESC	303511	911432		0.10
East Baton Rouge	044	NPC SERVICES	- 5539Z	SB-1B	UNKNOWN	30	PLUGGED		.			112SESC	303513	911432		0.14
East Baton Rouge	044	NPC SERVICES	- 5540Z	SB-2A	UNKNOWN	28	PLUGGED		.			112SESC	303518	911422		0.30
East Baton Rouge	044	NPC SERVICES	- 5541Z	SB-3A	UNKNOWN	28	PLUGGED		.			112SESC	303517	911417		0.35
East Baton Rouge	044	NPC SERVICES	- 5542Z	SM-2S	UNKNOWN	18	PLUGGED		.			112SESC	303521	911312		1.38
East Baton Rouge	044	NPC SERVICES	- 5543Z	SM-3S	UNKNOWN	17	PLUGGED		.			112SESC	303516	911307		1.45
East Baton Rouge	044	NPC SERVICES	- 5544Z	SH-1	UNKNOWN	38	PLUGGED		.			112SESC	303521	911305		1.49
East Baton Rouge	044	NPC SERVICES	- 5545Z	SH-2	UNKNOWN	32	PLUGGED		.			112SESC	303521	911311		1.40
East Baton Rouge	044	NPC SERVICES	- 5546Z	STW-1	UNKNOWN	29	PLUGGED		.			112SESC	303521	911311		1.40
East Baton Rouge	044	NPC SERVICES	- 5547Z	VB-6A	UNKNOWN	25	PLUGGED		.			112SESC	303513	911414		0.36
East Baton Rouge	044	NPC SERVICES	- 5548Z	VB-19A	UNKNOWN	28	PLUGGED		.			112SESC	303519	911417		0.37
East Baton Rouge	044	NPC SERVICES	- 5549Z	GM-8D	UNKNOWN	94	PLUGGED		.			112SESC	303516	911308		1.43
East Baton	044	NPC	-	SDG-2	UNKNOWN	116	PLUGGED		.			112SLBR	303521	911313		1.36

Rouge		SERVICES	5550Z													
East Baton Rouge	055	ROLLINS ENV SER	- 5582Z	OB-282	PSI/NATIONAL	66	MONITOR	2	05/87	20.5	05/13/87	112SESC	303426	911317	D W	1.48
East Baton Rouge	083	KAISER ALUMINUM	- 5586Z	MW-1	UNKNOWN	88	PLUGGED		.			112SLBR	303535	911549		1.35
East Baton Rouge	083	KAISER ALUMINUM	- 5587Z	MW-2	UNKNOWN	90	PLUGGED		.			112SLBR	303541	911548		1.37
East Baton Rouge	083	KAISER ALUMINUM	- 5588Z	MW-3	UNKNOWN	70	PLUGGED		.			112SLBR	303544	911502		0.86
East Baton Rouge	082	KAISER ALUMINUM	- 5589Z	MW-4	UNKNOWN	60	PLUGGED		.			112SLBR	303625	911504		1.59
East Baton Rouge	083	KAISER ALUMINUM	- 5590Z	MW-6	G & E	60	MONITOR	2	08/87	43.4	08/18/87	112SLBR	303542	911500	D W	0.81
East Baton Rouge	082	KAISER ALUMINUM	- 5591Z	MW-7	G & E	120	MONITOR	2	08/87	57.8	08/17/87	112SLBR	303553	911521	D W	1.19
East Baton Rouge	082	KAISER ALUMINUM	- 5592Z	MW-8	G & E	84	MONITOR	2	08/87	69.4	08/18/87	112SLBR	303606	911523	D W	1.40
East Baton Rouge	044	NPC SERVICES	- 5601Z		STAMM-SCHEELE	270	PLUGGED	4	05/87	30	05/12/87	11204BR	303455	911417	D W	0.35
East Baton Rouge	044	NPC SERVICES	- 5624Z	SDG-1	WARE LIND	106	MONITOR	4	12/87	46.4	12/12/87	112SLBR	303519	911415	D W	0.40
East Baton Rouge	044	NPC SERVICES	- 5625Z	SDG-2	WARE LIND	105	MONITOR	4	12/87	39.7	12/10/87	112SLBR	303518	911422	D W	0.30
East Baton Rouge	044	NPC SERVICES	- 5626Z	SDG-4	WARE LIND	107	MONITOR	4	12/87	42.8	12/02/87	112SLBR	303511	911415	D W	0.33
East Baton Rouge	044	NPC SERVICES	- 5627Z	SUG-1	WARE LIND	107	MONITOR	4	12/87	44.8	12/13/87	112SLBR	303519	911401	D W	0.60
East Baton	047	ROLLINS ENV	-	P-29	PSI/NATIONAL	28	PLUGGED		04/85			112SESC	303416	911307		1.72

Rouge		SER	5634Z													
East Baton Rouge	085	TRITON TURNKEY	- 5642Z	JEAN 1	GUICHARD	241	PLUGGED	4	02/88	45	02/04/88	11204BR	303541	911246	D W	1.90
East Baton Rouge	044	REYNOLDS METALS	- 5655Z	R-5	ENVIROCORP	28	MONITOR	4	01/88			112SESC	303512	911444	D	0.20
East Baton Rouge	044	NPC SERVICES	- 5825Z	W-0830-2	LEE, PETER B.	63	RECOVERY	6	04/92	15.38	05/19/25	112SESC	303449	911429	D W	0.34
East Baton Rouge	044	NPC SERVICES	- 5826Z	P-0832-1	LEE, PETER B.	92	PIEZOMETER	2	04/92	19	04/20/92	112SESC	303448	911427	D W	0.36
East Baton Rouge	044	NPC SERVICES	- 5827Z	W-0832-2	LEE, PETER B.	57	PLUGGED	6	04/92	11	04/20/92	112SESC	303448	911427	D W	0.36
East Baton Rouge	044	NPC SERVICES	- 5828Z	W-0832-3	LEE, PETER B.	51	PLUGGED	6	04/92	16.00	05/19/92	112SESC	303447	911427	D W	0.38
East Baton Rouge	044	NPC SERVICES	- 5829Z	W-0832-4	LEE, PETER B.	39	PLUGGED	6	04/92	13.5	04/20/92	112SESC	303446	911427	D W	0.40
East Baton Rouge	044	NPC SERVICES	- 5830Z	W-0931-2	LEE, PETER B.	53	RECOVERY	6	04/92	17.6	06/15/92	112SESC	303448	911429	D W	0.35
East Baton Rouge	044	GROW GROUP INC	- 5844Z	MW-1	FUGRO (GS)	25	PLUGGED	4	03/92	19.0	03/23/92	112SESC	303446	911252	D W	1.72
East Baton Rouge	044	GROW GROUP INC	- 5845Z	MW-2	FUGRO (GS)	25	PLUGGED	4	03/92	12.5	03/23/92	112SESC	303442	911255	D W	1.69
East Baton Rouge	044	GROW GROUP INC	- 5846Z	MW-3	FUGRO (GS)	25	PLUGGED	4	03/92	18.0	03/23/92	112SESC	303446	911255	D W	1.67
East Baton Rouge	044	GROW GROUP INC	- 5847Z	MW-4	FUGRO (GS)	25	PLUGGED	4	03/92	17	03/30/92	112SESC	303444	911255	D W	1.68
East Baton Rouge	044	GROW GROUP INC	- 5848Z	MW-5	FUGRO (GS)	25	PLUGGED	4	03/92	17.5	03/30/92	112SESC	303445	911256	D W	1.66
East Baton	044	GROW	-	MW-6	FUGRO (GS)	25	PLUGGED	4	03/92	16.5	03/30/92	112SESC	303445	911256	D W	1.66

Rouge		GROUP INC	5849Z													
East Baton Rouge	044	GROW GROUP INC	- 5850Z	MW-7	FUGRO (GS)	25	PLUGGED	4	03/92	16.5	03/30/92	112SESC	303443	911256	D W	1.67
East Baton Rouge	044	GROW GROUP INC	- 5851Z	MW-8	FUGRO (GS)	25	PLUGGED	4	03/92	17.0	03/30/92	112SESC	303445	911257	D W	1.65
East Baton Rouge	044	GROW GROUP INC	- 5852Z	MW-9	FUGRO (GS)	25	PLUGGED	4	03/92	17.5	03/30/92	112SESC	303446	911256	D W	1.66
East Baton Rouge	044	NPC SERVICES	- 5880Z	W-0729-3	LEE, PETER B.	84	PLUGGED	6	06/92	12.8	06/15/92	112SESC	303450	911429	D W	0.32
East Baton Rouge	044	NPC SERVICES	- 5881Z	W-0730-2	LEE, PETER B.	56	PLUGGED	6	06/92	10.52	06/15/92	112SESC	303450	911429	D W	0.32
East Baton Rouge	044	NPC SERVICES	- 5882Z	W-0730-3	LEE, PETER B.	68	RECOVERY	6	05/92	13.76	06/15/92	112SESC	303450	911429	D W	0.32
East Baton Rouge	044	NPC SERVICES	- 5883Z	W-0730-4	LEE, PETER B.	48	PLUGGED	6	05/92	13.4	06/15/92	112SESC	303449	911428	D W	0.34
East Baton Rouge	044	NPC SERVICES	- 5884Z	W-0731-1	LEE, PETER B.	53	PLUGGED	6	04/92	14.36	06/15/92	112SESC	303449	911428	D W	0.34
East Baton Rouge	044	NPC SERVICES	- 5885Z	W-0829-3	LEE, PETER B.	80	RECOVERY	6	06/92	16.0	06/17/92	112SESC	303449	911430	D W	0.33
East Baton Rouge	044	NPC SERVICES	- 5886Z	W-0830-1	LEE, PETER B.	71	PLUGGED	6	05/92	12.28	06/15/92	112SESC	303450	911429	D W	0.32
East Baton Rouge	044	NPC SERVICES	- 5887Z	W-0830-3	LEE, PETER B.	54	PLUGGED	6	05/92	14.28	06/15/92	112SESC	303449	911428	D W	0.34
East Baton Rouge	044	NPC SERVICES	- 5888Z	W-0831-1	LEE, PETER B.	53	PLUGGED	6	06/92	15.8	06/15/92	112SESC	303448	911428	D W	0.36
East Baton Rouge	044	NPC SERVICES	- 5889Z	W-0832-4	LEE, PETER B.	55	PLUGGED	6	05/92	15.68	06/15/92	112SESC	303448	911428	D W	0.36
East Baton	044	NPC	-	W-0931-3	LEE, PETER B.	53	PLUGGED	6	06/92	22.28	06/15/92	112SESC	303448	911429	D W	0.35

Rouge		SERVICES	5890Z													
East Baton Rouge	044	NPC SERVICES	- 5891Z	W-0932-2	LEE, PETER B.	53	PLUGGED	6	05/92	19.36	06/15/92	112SESC	303447	911428	D W	0.38
East Baton Rouge	044	NPC SERVICES	- 5892Z	W-0932-3	LEE, PETER B.	52	PLUGGED	6	05/92	18.4	06/15/92	112SESC	303447	911427	D W	0.38
East Baton Rouge	044	NPC SERVICES	- 5897Z	BB4-172S	LAYNE (ENV)	32	MONITOR	2	05/92	7	06/04/92	112SESC	303433	911424	D W	0.65
East Baton Rouge	044	NPC SERVICES	- 5926Z	W-0426-1	LEE, PETER B.	56	PLUGGED	6	07/92	31	08/19/92	112SESC	303454	911435	D W	0.23
East Baton Rouge	044	NPC SERVICES	- 5927Z	W-0829-1	LEE, PETER B.	78	RECOVERY	6	07/92	12	08/19/92	112SESC	303449	911430	D W	0.33
East Baton Rouge	044	NPC SERVICES	- 5928Z	W-0831-1	LEE, PETER B.	53	RECOVERY	6	06/92	16	08/19/92	112SESC	303448	911428	D W	0.36
East Baton Rouge	044	NPC SERVICES	- 5929Z	W-0929-2	LEE, PETER B.	78	RECOVERY	6	06/92	18	08/19/92	112SESC	303449	911430	D W	0.33
East Baton Rouge	044	NPC SERVICES	- 5930Z	W-0930-2	LEE, PETER B.	82	RECOVERY	6	06/92	16	08/19/92	112SESC	303449	911430	D W	0.33
East Baton Rouge	044	NPC SERVICES	- 5931Z	W-1029-2	LEE, PETER B.	68	RECOVERY	6	07/92	33	08/19/92	112SESC	303448	911431	D W	0.35
East Baton Rouge	044	NPC SERVICES	- 5932Z	W-1129-1	LEE, PETER B.	72	PLUGGED	6	07/92	26	08/19/92	112SESC	303448	911431	D W	0.35
East Baton Rouge	044	NPC SERVICES	- 5934Z	SBP-012	T.L. JAMES	23	MONITOR	2	08/92	10	08/19/92	112SESC	303520	911313	D W	1.36
East Baton Rouge	048	ROLLINS ENV SER	- 5935Z	MW-21A	WARE LIND	66	MONITOR	4	11/88			112SESC	303409	911304	D	1.84
East Baton Rouge	048	ROLLINS ENV SER	- 5936Z	MW-21B	WARE LIND	82	MONITOR	2	11/88			112SLBR	303409	911304	D	1.84
East Baton	048	ROLLINS ENV	-	MW13AR	WARE LIND	38	MONITOR	2	01/89	27	02/06/89	112SESC	303359	911304	D W	1.96

Rouge		SER	6074Z													
East Baton Rouge	048	ROLLINS ENV SER	- 6087Z	MW-8AR	WARE LIND	35	MONITOR	2	02/89	26	02/20/89	112SESC	303358	911312	D W	1.88
East Baton Rouge	047	ROLLINS ENV SER	- 6134Z	8B-1	WARE LIND	62	MONITOR	2	03/89	25.1	03/27/89	112SESC	303358	911312	D W	1.88
East Baton Rouge	048	ROLLINS ENV SER	- 6135Z	13B-1	WARE LIND	51	MONITOR	2	03/89	24.6	03/24/89	112SESC	303359	911304	D W	1.96
East Baton Rouge	047	ROLLINS ENV SER	- 6139Z	8B-2	WARE LIND	86	MONITOR	2	04/89	24.3	04/17/89	112SESC	303358	911312	D W	1.88
East Baton Rouge	048	ROLLINS ENV SER	- 6140Z	13B-2	WARE LIND	85	MONITOR	2	04/89	24.8	04/14/89	112SLBR	303359	911304	D W	1.96
East Baton Rouge	048	ROLLINS ENV SER	- 6141Z	13C	WARE LIND	111	MONITOR	2	04/89	23	04/26/89	112SLBR	303359	911304	D W	1.96
East Baton Rouge	048	ROLLINS ENV SER	- 6181Z	25A	WARE LIND	38	MONITOR	4	05/89	13.4	05/31/89	112SESC	303415	911255	D W	1.90
East Baton Rouge	048	ROLLINS ENV SER	- 6182Z	25B-1	WARE LIND	66	MONITOR	2	05/89	14.9	05/31/89	112SESC	303415	911255	D W	1.90
East Baton Rouge	048	ROLLINS ENV SER	- 6183Z	30A	WARE LIND	60	MONITOR	4	05/89	20.3	05/22/89	112SLBR	303407	911255	D W	1.98
East Baton Rouge	048	ROLLINS ENV SER	- 6184Z	30B-1	WARE LIND	74	MONITOR	2	05/89	22.4	05/31/89	112SESC	303407	911255	D W	1.98
East Baton Rouge	047	ROLLINS ENV SER	- 6185Z	9A-W	WARE LIND	31	MONITOR	2	04/89	4.3	05/08/89	112SESC	303407	911310	D W	1.79
East Baton Rouge	048	ROLLINS ENV SER	- 6191Z	9B-1	WARE LIND	74	MONITOR	2	06/89			112SESC	303407	911310	D	1.79
East Baton Rouge	047	ROLLINS ENV SER	- 6263Z	10A-W	WARE LIND	28	MONITOR	2	09/89			112SESC	303412	911310	D	1.73
East Baton	044	NPC	-	P-15	UNKNOWN	50	PLUGGED	6	.			112SESC	303451	911428		0.30

Rouge		SERVICES	6358Z														
East Baton Rouge	048	ROLLINS ENV SER	- 6431Z	35A	WARE LIND	36	MONITOR	2	04/90	16.2	04/16/90	112SESC	303402	911258	D W	2.00
East Baton Rouge	047	ROLLINS ENV SER	- 6432Z	36A	WARE LIND	34	MONITOR	2	04/90	24.8	04/12/90	112SESC	303400	911316	D W	1.80
East Baton Rouge	047	ROLLINS ENV SER	- 6433Z	36B-1	WARE LIND	61	MONITOR	2	04/90	26.7	04/12/90	112SESC	303400	911316	D W	1.80
East Baton Rouge	047	ROLLINS ENV SER	- 6434Z	37A	WARE LIND	24	MONITOR	2	04/90	5.38	05/04/90	112SESC	303402	911312	D W	1.82
East Baton Rouge	047	ROLLINS ENV SER	- 6435Z	37B-1	WARE LIND	51	MONITOR	2	04/90	7.03	05/04/90	112SESC	303402	911312	D W	1.82
East Baton Rouge	047	ROLLINS ENV SER	- 6436Z	37B-2	WARE LIND	60	MONITOR	2	04/90	7.04	05/04/90	112SESC	303402	911312	D W	1.82
East Baton Rouge	047	ROLLINS ENV SER	- 6437Z	38A	WARE LIND	32	MONITOR	2	05/90	4.5	05/04/90	112SESC	303415	911310	D W	1.69
East Baton Rouge	047	ROLLINS ENV SER	- 6438Z	38B-1	WARE LIND	54	MONITOR	2	04/90	5.12	05/04/90	112SESC	303415	911310	D W	1.69
East Baton Rouge	048	ROLLINS ENV SER	- 6439Z	39A	WARE LIND	28	MONITOR	2	04/90	8.35	05/04/90	112SESC	303418	911306	D W	1.72
East Baton Rouge	047	ROLLINS ENV SER	- 6445Z	22A-W	WARE LIND	24	MONITOR	2	05/90	4.6	05/14/90	112SESC	303403	911312	D W	1.81
East Baton Rouge	048	ROLLINS ENV SER	- 6448Z	35B-1	WARE LIND	63	MONITOR	2	05/90	21.4	05/14/90	112SESC	303402	911258	D W	2.00
East Baton Rouge	048	ROLLINS ENV SER	- 6449Z	39B-2	WARE LIND	89	MONITOR	2	05/90	17.3	05/14/90	112SLBR	303418	911306	D W	1.72
East Baton Rouge	048	ROLLINS ENV SER	- 6450Z	40A	WARE LIND	29	MONITOR	2	05/90	8.7	05/14/90	112SESC	303417	911301	D W	1.80
East Baton	048	ROLLINS ENV	-	40B-2	WARE LIND	86	MONITOR	2	05/90	22.5	05/14/90	112SLBR	303417	911301	D W	1.80

Rouge		SER	6451Z													
East Baton Rouge	044	NPC SERVICES	- 6452Z	BRW-4R	SOIL TESTING	35	PLUGGED	4	05/88			112SESC	303452	911435	D	0.27
East Baton Rouge	044	NPC SERVICES	- 6453Z	BRW-9R	SOIL TESTING	62	PLUGGED	4	05/88			112SESC	303451	911436	D	0.29
East Baton Rouge	044	NPC SERVICES	- 6454Z	BRW-11	SOIL TESTING	57	PLUGGED	4	05/88			112SESC	303452	911435	D	0.27
East Baton Rouge	044	NPC SERVICES	- 6455Z	BRW-12	SOIL TESTING	44	PLUGGED	4	05/88			112SESC	303452	911435	D	0.27
East Baton Rouge	044	NPC SERVICES	- 6456Z	BRW-13	SOIL TESTING	35	PLUGGED	4	05/88			112SESC	303452	911435	D	0.27
East Baton Rouge	044	NPC SERVICES	- 6457Z	BRW-15	SOIL TESTING	52	PLUGGED	4	05/88			112SESC	303451	911438	D	0.29
East Baton Rouge	044	NPC SERVICES	- 6458Z	RP-1	SOIL TESTING	45	PLUGGED	2	05/88			112SESC	303452	911435	D	0.27
East Baton Rouge	047	ROLLINS ENV SER	- 6462Z	22B-1	WARE LIND	32	MONITOR	2	05/90	5.79	06/08/90	112SESC	303403	911312	D W	1.81
East Baton Rouge	048	ROLLINS ENV SER	- 6464Z	35B-2	WARE LIND	77	MONITOR	2	05/90	25	06/06/90	112SESC	303402	911258	D W	2.00
East Baton Rouge	085	PATTEN, GEORGIA	- 6473Z		ECONOMY	270	DOMESTIC	2	05/92	53	05/28/92	11204BR	303532	911303	D W	1.58
East Baton Rouge	044	NPC SERVICES	- 6485Z	BRW-14	SOIL TESTING	40	RECOVERY	4	05/90			112SESC	303452	911437	D	0.27
East Baton Rouge	044	NPC SERVICES	- 6488Z	DP-1	T.L. JAMES	117	PIEZOMETER	2	05/93	35	05/10/93	112SLBR	303516	911312	D W	1.36
East Baton Rouge	044	NPC SERVICES	- 6489Z	DP-2	T.L. JAMES	116	PIEZOMETER	2	04/93	35	05/10/93	112SLBR	303516	911311	D W	1.38
East Baton	044	NPC	-	DP-W	T.L. JAMES	117	PIEZOMETER	4	05/93	36	05/10/93	112SLBR	303516	911311	D W	1.38

Rouge		SERVICES	6490Z														
East Baton Rouge	044	NPC SERVICES	- 6491Z	IPW	T.L. JAMES	85	PIEZOMETER	6	03/93	25	05/10/93	112SLBR	303523	911315	D W	1.34
East Baton Rouge	044	NPC SERVICES	- 6492Z	W-0420-1	T.L. JAMES	98	PLUGGED	6	05/93	33	06/01/93	112SLBR	303458	911435	D W	0.15
East Baton Rouge	044	NPC SERVICES	- 6493Z	W-0420-2	T.L. JAMES	104	RECOVERY	6	04/93	38	06/01/93	112SLBR	303458	911435	D W	0.15
East Baton Rouge	044	NPC SERVICES	- 6494Z	W-0420-3	T.L. JAMES	87	PLUGGED	6	05/93	36	06/01/93	112SLBR	303457	911435	D W	0.17
East Baton Rouge	044	NPC SERVICES	- 6495Z	W-0421-1	T.L. JAMES	83	PLUGGED	6	05/93	33	06/01/93	112SLBR	303457	911434	D W	0.17
East Baton Rouge	044	NPC SERVICES	- 6496Z	W-0421-2	T.L. JAMES	88	PLUGGED	6	05/93	37	06/01/93	112SLBR	303457	911434	D W	0.17
East Baton Rouge	047	ROLLINS ENV SER	- 6500Z	8C	WARE LIND	86	MONITOR	2	04/89	24.8	05/02/89	112SESC	303358	911312	D W	1.88
East Baton Rouge	044	FIRST ENERGY	- 6510Z	MCVEA 1	ECONOMY	185	PLUGGED	4	02/90	30	02/21/90	112SLBR	303510	911252	D W	1.68
East Baton Rouge	048	ROLLINS ENV SER	- 6568Z	MW-41A	AQUATERRA, INC.	34	MONITOR	2	10/90	31.3	11/01/90	112SESC	303359	911308	D W	1.91
East Baton Rouge	048	ROLLINS ENV SER	- 6572Z	P-44	ENCOR	100	PLUGGED	2	10/90	22.9	10/25/90	112SLBR	303416	911248	D W	1.99
East Baton Rouge	085	FIRST ENERGY	- 6658Z	JEAN 1	ECONOMY	240	RIG SUPPLY	4	02/91	47	02/07/91	11204BR	303542	911244	D W	1.94
East Baton Rouge	048	ROLLINS ENV SER	- 6680Z	P-45	ENCOR	63	PIEZOMETER	2	04/91	33.3	04/10/91	112SESC	303409	911304	D W	1.84
East Baton Rouge	079	GRANT CHEMICAL	- 6703Z	M-2	UNKNOWN	37	PLUGGED	2	11/81			112SESC	303643	911349		2.00
East Baton	079	GRANT	-	M-3	UNKNOWN	37	PLUGGED	2	11/81			112SESC	303643	911350		1.99

Rouge		CHEMICAL	6704Z													
East Baton Rouge	079	GRANT CHEMICAL	- 6705Z	M-4	UNKNOWN	37	PLUGGED	2	11/81			112SESC	303642	911350		1.97
East Baton Rouge	044	GROW GROUP INC	- 6757Z	BG-2	CUSTOM CORING	10	MONITOR	4	09/91	5.90	09/20/91	112SESC	303442	911254	D W	1.71
East Baton Rouge	044	GROW GROUP INC	- 6758Z	BG-3	CUSTOM CORING	10	MONITOR	4	09/91	7.10	09/20/91	112SESC	303432	911255	D W	1.76
East Baton Rouge	044	GROW GROUP INC	- 6759Z	BG-5	CUSTOM CORING	15	MONITOR	4	09/91	6.1	09/20/91	112SESC	303433	911254	D W	1.76
East Baton Rouge	044	GROW GROUP INC	- 6760Z	BG-6	CUSTOM CORING	15	MONITOR	4	09/91	6.1	09/20/91	112SESC	303442	911254	D W	1.71
East Baton Rouge	044	NPC SERVICES	- 6777Z	W-T02	LAYNE (ENV)	58	PLUGGED	4	02/91	43	02/09/91	112SESC	303457	911436	D W	0.18
East Baton Rouge	044	NPC SERVICES	- 6778Z	W-T03	LAYNE (ENV)	55	PLUGGED	4	01/91	44	01/29/91	112SESC	303456	911434	D W	0.19
East Baton Rouge	044	NPC SERVICES	- 6779Z	W-T04	LAYNE (ENV)	72	PLUGGED	4	01/91	49	01/21/91	112SESC	303454	911433	D W	0.23
East Baton Rouge	044	NPC SERVICES	- 6780Z	W-T05	LAYNE (ENV)	58	PLUGGED	4	01/91	43	01/11/91	112SESC	303456	911436	D W	0.19
East Baton Rouge	044	NPC SERVICES	- 6781Z	W-T06	LAYNE (ENV)	56	RECOVERY	4	01/91	47	01/05/91	112SESC	303454	911438	D W	0.24
East Baton Rouge	044	NPC SERVICES	- 6782Z	W-T07	LAYNE (ENV)	63	RECOVERY	4	12/90	8	12/29/90	112SESC	303452	911439	D W	0.28
East Baton Rouge	044	NPC SERVICES	- 6783Z	W-T08	LAYNE (ENV)	44	RECOVERY	4	12/90	9	12/17/91	112SESC	303451	911438	D W	0.29
East Baton Rouge	044	NPC SERVICES	- 6784Z	W-T09	LAYNE (ENV)	68	RECOVERY	4	02/91	48	02/12/91	112SESC	303451	911433	D W	0.29
East Baton	044	NPC	-	W-T11	LAYNE (ENV)	68	PLUGGED	4	02/91	47	02/19/91	112SESC	303446	911428	D W	0.40

Rouge		SERVICES	6785Z													
East Baton Rouge	044	NPC SERVICES	- 6786Z	W-T12	LAYNE (ENV)	40	PLUGGED	4	02/91	32	02/21/91	112SESC	303446	911428	D W	0.40
East Baton Rouge	044	NPC SERVICES	- 6787Z	W-T15	LAYNE (ENV)	33	PLUGGED	4	02/91	26	02/27/91	112SESC	303446	911426	D W	0.40
East Baton Rouge	044	NPC SERVICES	- 6788Z	W-T16	LAYNE (ENV)	57	PLUGGED	4	02/91	42	02/16/91	112SESC	303447	911427	D W	0.38
East Baton Rouge	044	NPC SERVICES	- 6789Z	W-T17	LAYNE (ENV)	82	PLUGGED	4	02/91	49	03/04/91	112SESC	303446	911429	D W	0.39
East Baton Rouge	044	NPC SERVICES	- 6803Z	W-093-1	LAYNE (ENV)	72	PLUGGED	4	09/91	10	09/16/91	112SESC	303448	911429	D W	0.35
East Baton Rouge	044	NPC SERVICES	- 6804Z	W-0825-1	LAYNE (ENV)	68	RECOVERY	4	10/91	10	10/10/91	112SESC	303452	911433	D W	0.27
East Baton Rouge	044	NPC SERVICES	- 6805Z	W-0827-2	LAYNE (ENV)	27	RECOVERY	4	10/91	12	10/04/91	112SESC	303450	911431	D W	0.31
East Baton Rouge	044	NPC SERVICES	- 6806Z	W-0828-1	LAYNE (ENV)	82	RECOVERY	4	10/91	11	10/10/91	112SESC	303450	911430	D W	0.31
East Baton Rouge	044	NPC SERVICES	- 6807Z	W-0828-2	LAYNE (ENV)	26	RECOVERY	4	10/91	12	10/02/91	112SESC	303449	911431	D W	0.33
East Baton Rouge	044	NPC SERVICES	- 6808Z	W-0929-1	LAYNE (ENV)	18	RECOVERY	4	09/91	10	09/25/91	112SESC	303449	911431	D W	0.33
East Baton Rouge	044	NPC SERVICES	- 6809Z	W-0930-1	LAYNE (ENV)	72	RECOVERY	4	09/91	8	09/00/91	112SESC	303448	911429	D W	0.35
East Baton Rouge	044	NPC SERVICES	- 6810Z	W-1029-1	LAYNE (ENV)	54	PLUGGED	4	09/91	9	09/04/91	112SESC	303448	911431	D W	0.35
East Baton Rouge	044	NPC SERVICES	- 6811Z	W-1030-1	LAYNE (ENV)	85	PLUGGED	4	09/91	8	09/09/91	112SESC	303447	911430	D W	0.37
East Baton	044	NPC	-	W-1126-1	LAYNE (ENV)	58	PLUGGED	4	10/91	12	10/28/91	112SESC	303448	911434	D W	0.34

Rouge		SERVICES	6812Z													
East Baton Rouge	033	ROLLINS ENV SER	- 6813Z	P-46	ENCOR	30	PIEZOMETER	2	12/91	14.5	01/06/92	112SESC	303418	911308	D W	1.69
East Baton Rouge	048	ROLLINS ENV SER	- 6814Z	P-47	ENCOR	24	PIEZOMETER	2	12/91	10.2	01/06/92	112SESC	303419	911255	D W	1.86
East Baton Rouge	033	ROLLINS ENV SER	- 6815Z	P-48	ENCOR	30	PIEZOMETER	2	12/91	4.3	01/06/92	112SESC	303422	911308	D W	1.65
East Baton Rouge	033	ROLLINS ENV SER	- 6816Z	P-49	ENCOR	30	PIEZOMETER	2	12/91	4.0	01/06/92	112SESC	303422	911317	D W	1.52
East Baton Rouge	033	ROLLINS ENV SER	- 6817Z	P-50	ENCOR	30	PIEZOMETER	2	12/91	10.5	01/06/92	112SESC	303423	911325	D W	1.40
East Baton Rouge	033	ROLLINS ENV SER	- 6818Z	P-51	ENCOR	30	PIEZOMETER	2	12/91	3.0	01/06/92	112SESC	303426	911324	D W	1.38
East Baton Rouge	033	ROLLINS ENV SER	- 6819Z	P-52	ENCOR	30	PIEZOMETER	2	12/91	4.0	01/06/92	112SESC	303424	911308	D W	1.63
East Baton Rouge	048	ROLLINS ENV SER	- 6820Z	P-53	ENCOR	25	PIEZOMETER	2	12/91	6.0	01/06/92	112SESC	303422	911254	D W	1.85
East Baton Rouge	044	NPC SERVICES	- 6868Z	SBP-009	T.L. JAMES	20	PIEZOMETER	2	09/92	8	09/15/92	112SESC	303519	911312	D W	1.37
East Baton Rouge	044	NPC SERVICES	- 6869Z	W-0829-2	T.L. JAMES	78	RECOVERY	6	09/92	16	09/26/92	112SESC	303450	911431	D W	0.31
East Baton Rouge	048	ROLLINS ENV SER	- 6886Z	47B-1	ENCOR	50	MONITOR	2	09/92	30.7	10/13/92	112SESC	303359	911304	D W	1.96
East Baton Rouge	044	NPC SERVICES	- 6895Z	W-1028-1	T.L. JAMES	73	RECOVERY	6	10/92	14	10/10/92	112SESC	303449	911433	D W	0.33
East Baton Rouge	044	NPC SERVICES	- 6896Z	W-1128-1	T.L. JAMES	84	PLUGGED	6	10/92	14	10/12/92	112SESC	303449	911437	D W	0.33
East Baton	044	NPC	-	W-1128-2	T.L. JAMES	77	PLUGGED	6	10/92	18	10/05/92	112SESC	303450	911436	D W	0.31

Rouge		SERVICES	6897Z														
East Baton Rouge	085	NPC SERVICES	- 6907Z	STW-2	CAPOZZOLI	25	PLUGGED	2	11/84			112SESC	303522	911309		1.43
East Baton Rouge	044	NPC SERVICES	- 6914Z	W-0928-1	T.L. JAMES	79	RECOVERY	6	10/92	16	10/29/92	112SESC	303450	911432	D W	0.31
East Baton Rouge	044	NPC SERVICES	- 6931Z	SPB011	T.L. JAMES	20	PIEZOMETER	2	11/92	13	11/17/92	112SESC	303519	911311	W	1.39
East Baton Rouge	048	ROLLINS ENV SER	- 6937Z	46B-1	AQUATERRA, INC.	25	MONITOR	2	12/92	9.92	01/05/93	112SESC	303406	911316	D W	1.72
East Baton Rouge	083	BATON ROUGE, LA	- 6941Z	P-8	GRINER	37	PLUGGED	2	.			112SLBR	303604	911418		1.14
East Baton Rouge	079	BATON ROUGE, LA	- 6942Z	P-17	GRINER	37	PLUGGED	2	.			112SESC	303617	911413		1.40
East Baton Rouge	083	BATON ROUGE, LA	- 6943Z	P-27	GRINER	62	PLUGGED	2	.			112SLBR	303537	911413		0.69
East Baton Rouge	079	BATON ROUGE, LA	- 6944Z	P-58	GRINER	63	PLUGGED	2	.			112SESC	303630	911358		1.71
East Baton Rouge	079	BATON ROUGE, LA	- 6945Z	P-63	GRINER	32	PLUGGED	2	.			112SESC	303608	911358		1.33
East Baton Rouge	083	BATON ROUGE, LA	- 6946Z	P-68	GRINER	43	PLUGGED	2	.			112SLBR	303550	911358		1.03
East Baton Rouge	079	BATON ROUGE, LA	- 6947Z	P-74	GRINER	60	PLUGGED	2	.			112SESC	303612	911353		1.43
East Baton Rouge	079	BATON ROUGE, LA	- 6948Z	MW-1	GRINER	53	MONITOR	4	07/92	17	09/11/92	112SESC	303638	911404	D W	1.83
East Baton Rouge	079	BATON ROUGE, LA	- 6949Z	MW-2	GRINER	39	MONITOR	4	07/92	8.4	09/11/92	112SESC	303637	911356	D W	1.85
East Baton	079	BATON	-	MW-3	GRINER	35	MONITOR	4	07/92	4.1	09/11/92	112SESC	303631	911349	D W	1.79

Rouge		ROUGE, LA	6950Z														
East Baton Rouge	079	BATON ROUGE, LA	- 6951Z	MW-3D	GRINER	64	MONITOR	4	07/92	3.6	09/11/92	112SESC	303630	911348	D W	1.78
East Baton Rouge	079	BATON ROUGE, LA	- 6952Z	MW-4	GRINER	31	MONITOR	4	07/92	7.7	09/11/92	112SESC	303613	911343	D W	1.53
East Baton Rouge	079	BATON ROUGE, LA	- 6953Z	MW-4D	GRINER	62	MONITOR	4	07/92	8.0	09/11/92	112SESC	303611	911342	D W	1.51
East Baton Rouge	083	BATON ROUGE, LA	- 6954Z	MW-6	GRINER	32	MONITOR	4	08/92	23.8	09/11/92	112SESC	303548	911344	D W	1.15
East Baton Rouge	083	BATON ROUGE, LA	- 6955Z	MW-8	GRINER	42	MONITOR	4	08/92	11.0	09/11/92	112SLBR	303535	911346	D W	0.97
East Baton Rouge	083	BATON ROUGE, LA	- 6956Z	MW-9	GRINER	45	MONITOR	4	08/92	34.9	09/11/92	112SLBR	303534	911355	D W	0.84
East Baton Rouge	083	BATON ROUGE, LA	- 6957Z	MW-9D	GRINER	97	MONITOR	4	09/92	36.8	09/11/92	112SLBR	303535	911353	D W	0.87
East Baton Rouge	083	BATON ROUGE, LA	- 6958Z	MW-10	GRINER	38	PLUGGED	4	08/92	29.8	09/11/92	112SLBR	303534	911405	D W	0.72
East Baton Rouge	083	BATON ROUGE, LA	- 6959Z	MW-10D	GRINER	57	MONITOR	4	08/92	34.4	09/11/92	112SLBR	303535	911402	D W	0.77
East Baton Rouge	083	BATON ROUGE, LA	- 6960Z	MW-10M	GRINER	45	MONITOR	4	08/92	34.9	09/11/92	112SLBR	303535	911402	D W	0.77
East Baton Rouge	083	BATON ROUGE, LA	- 6961Z	MW-11D	GRINER	50	MONITOR	4	08/92	44.4	09/11/92	112SLBR	303549	911416	D W	0.87
East Baton Rouge	083	BATON ROUGE, LA	- 6962Z	MW-12	GRINER	44	MONITOR	4	08/92	13.4	09/11/92	112SLBR	303559	911414	D W	1.07
East Baton Rouge	079	BATON ROUGE, LA	- 6963Z	MW-13	GRINER	52	MONITOR	4	08/92	11	09/11/92	112SESC	303619	911411	D W	1.45
East Baton	079	BATON	-	MW-14	GRINER	47	MONITOR	4	07/92	16	09/11/92	112SESC	303632	911408	D W	1.76

Rouge		ROUGE, LA	6964Z													
East Baton Rouge	083	BATON ROUGE, LA	- 6965Z	MW-15D	GRINER	52	MONITOR	4	07/92	44.7	09/11/92	112SLBR	303549	911408	D W	0.93
East Baton Rouge	044	NPC SERVICES	- 6976Z	W-0729-2	T.L. JAMES	79	RECOVERY	6	12/92	15	12/31/92	112SLBR	303450	911430	D W	0.31
East Baton Rouge	044	NPC SERVICES	- 6977Z	W0-826-3	T.L. JAMES	74	RECOVERY	6	01/93	16	01/13/92	112SLBR	303451	911433	D W	0.29
East Baton Rouge	044	NPC SERVICES	- 6978Z	W-0828-3	T.L. JAMES	39	RECOVERY	6	12/92	7	12/24/92	112SESC	303450	911431	D W	0.31
East Baton Rouge	044	NPC SERVICES	- 6979Z	W-1126-2	T.L. JAMES	82	PLUGGED	6	01/93	15	01/07/93	112SLBR	303449	911435	D W	0.33
East Baton Rouge	044	NPC SERVICES	- 7000Z	W-0827-3	T.L. JAMES	78	RECOVERY	6	01/93	14	02/01/93	112SESC	303451	911431	D W	0.29
East Baton Rouge	044	NPC SERVICES	- 7001Z	W-0725-2	T.L. JAMES	65	RECOVERY	6	01/93	12	02/01/93	112SESC	303452	911433	D W	0.27
East Baton Rouge	044	NPC SERVICES	- 7016Z	W-0726-4	T.L. JAMES	81	MONITOR	6	02/93	23	02/16/93	112SLBR	303451	911432	D W	0.29
East Baton Rouge	044	NPC SERVICES	- 7017Z	W-0727-2	T.L. JAMES	78	MONITOR	6	02/93	12	02/28/93	112SLBR	303450	911431	D W	0.31
East Baton Rouge	044	NPC SERVICES	- 7018Z	W-0727-4	T.L. JAMES	78	MONITOR	6	02/93	13	02/21/93	112SLBR	303451	911431	D W	0.29
East Baton Rouge	044	NPC SERVICES	- 7019Z	W-0826-2	T.L. JAMES	78	MONITOR	6	02/93	12	02/12/93	112SLBR	303451	911432	D W	0.29
East Baton Rouge	044	NPC SERVICES	- 7077Z	W-0727-3	T.L. JAMES	79	RECOVERY	6	03/93	3	04/15/93	112SLBR	303451	911431	D W	0.29
East Baton Rouge	044	NPC SERVICES	- 7078Z	W-1123-1	T.L. JAMES	81	PLUGGED	6	03/93	17	04/15/93	112SLBR	303451	911437	D W	0.29
East Baton	044	NPC	-	W-1123-2	T.L. JAMES	81	RECOVERY	6	03/93	15	04/15/93	112SLBR	303450	911437	D W	0.31

Rouge		SERVICES	7079Z														
East Baton Rouge	044	NPC SERVICES	- 7080Z	W-1125-1	T.L. JAMES	84	PLUGGED	6	03/93	12	03/09/93	112SLBR	303449	911435	D W	0.33
East Baton Rouge	044	NPC SERVICES	- 7081Z	SP1	T.L. JAMES	30	PIEZOMETER	2	03/93	18	04/19/93	112SESC	303523	911315	D W	1.34
East Baton Rouge	044	NPC SERVICES	- 7082Z	SP2	T.L. JAMES	31	PIEZOMETER	2	03/93	27	04/19/93	112SESC	303523	911315	D W	1.34
East Baton Rouge	044	NPC SERVICES	- 7083Z	SP3	T.L. JAMES	31	PIEZOMETER	2	03/93	27	04/19/93	112SESC	303523	911314	D W	1.36
East Baton Rouge	044	NPC SERVICES	- 7084Z	SPW	T.L. JAMES	31	PIEZOMETER	4	03/93	16	04/19/93	112SESC	303523	911315	D W	1.34
East Baton Rouge	044	NPC SERVICES	- 7093Z	DP-3	T.L. JAMES	115	PIEZOMETER	2	04/93	25	05/13/93	112SLBR	303516	911311	D W	1.38
East Baton Rouge	044	NPC SERVICES	- 7094Z	IP-1	T.L. JAMES	85	PIEZOMETER	4	04/93	25	05/13/93	112SLBR	303524	911315	D W	1.35
East Baton Rouge	044	NPC SERVICES	- 7095Z	IP-2	T.L. JAMES	87	PIEZOMETER	2	04/93	25	05/13/93	112SLBR	303524	911315	D W	1.35
East Baton Rouge	044	NPC SERVICES	- 7096Z	IP-3	T.L. JAMES	86	PIEZOMETER	2	04/93	27	05/13/93	112SLBR	303524	911316	D W	1.33
East Baton Rouge	044	NPC SERVICES	- 7097Z	W-0920-1	T.L. JAMES	84	RECOVERY	6	03/93	22	05/12/93	112SLBR	303453	911440	D W	0.27
East Baton Rouge	044	NPC SERVICES	- 7098Z	W-1020-1	T.L. JAMES	84	RECOVERY	6	04/93	22	05/12/93	112SLBR	303452	911439	D W	0.28
East Baton Rouge	044	NPC SERVICES	- 7135Z	W-0420-1	T.L. JAMES	98	RECOVERY	6	05/93	30	06/09/93	112SESC	303458	911435	D W	0.15
East Baton Rouge	044	NPC SERVICES	- 7136Z	W-0421-1	T.L. JAMES	83	RECOVERY	6	05/93	31	06/09/93	112SESC	303457	911434	D W	0.17
East Baton	044	NPC	-	W-0422-2	T.L. JAMES	98	PLUGGED	6	06/93	29	06/10/93	112SESC	303456	911433	D W	0.19

Rouge		SERVICES	7137Z														
East Baton Rouge	044	NPC SERVICES	- 7138Z	W-0423-1	T.L. JAMES	98	PLUGGED	6	06/93	29	06/17/93	112SESC	303456	911433	D W	0.19
East Baton Rouge	044	NPC SERVICES	- 7139Z	W-0920-2	T.L. JAMES	80	RECOVERY	6	06/93	18	06/24/93	112SESC	303453	911438	D W	0.26
East Baton Rouge	044	NPC SERVICES	- 7140Z	W-0922-1	T.L. JAMES	88	PLUGGED	6	06/93	18	07/05/93	112SESC	303453	911437	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 7141Z	W-1021-2	T.L. JAMES	85	RECOVERY	6	07/93	18	07/12/93	112SESC	303452	911438	D W	0.28
East Baton Rouge	048	ROLLINS ENV SER	- 7154Z	I-10	WARE LIND	60	RECOVERY	6	07/93	29.4	08/17/93	112SESC	303402	911304	D W	1.92
East Baton Rouge	044	NPC SERVICES	- 7166Z	W-0912-1	T.L. JAMES	88	RECOVERY	6	07/93	24	08/10/93	112SESC	303453	911437	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 7167Z	W-0922-2	T.L. JAMES	80	PLUGGED	6	07/93	15	08/10/93	112SESC	303452	911437	D W	0.27
East Baton Rouge	044	NPC SERVICES	- 7168Z	W-0913-1	T.L. JAMES	81	PLUGGED	6	08/93	24	08/19/93	112SESC	303452	911435	D W	0.27
East Baton Rouge	044	NPC SERVICES	- 7169Z	W-1023-2	T.L. JAMES	83	PLUGGED	6	08/93	24	08/12/93	112SESC	303451	911436	D W	0.29
East Baton Rouge	079	BATON ROUGE, LA	- 7170Z	MW-5	GRINER	40	PLUGGED	4	08/93	25.00	09/03/93	112SESC	303558	911348	D W	1.25
East Baton Rouge	079	BATON ROUGE, LA	- 7171Z	MW-15	GRINER	46	PLUGGED	4	08/93	44	09/03/93	112SESC	303549	911406	D W	0.94
East Baton Rouge	079	BATON ROUGE, LA	- 7172Z	MW-16M	GRINER	42	PLUGGED	4	08/93	32.00	09/03/93	112SESC	303543	911356	D W	0.94
East Baton Rouge	079	FERRO CORP	- 7173Z	MW-1A	GRINER	41	MONITOR	4	08/93	8.85	08/20/93	112SESC	303642	911354	D W	1.95
East Baton	079	FERRO CORP	-	MW-1B	GRINER	80	MONITOR	4	07/93	21.45	08/20/93	112SESC	303642	911354	D W	1.95

Rouge			7174Z													
East Baton Rouge	079	FERRO CORP	- 7175Z	MW-2A	GRINER	48	MONITOR	4	07/93	18.20	08/20/93	112SESC	303642	911358	D W	1.93
East Baton Rouge	079	FERRO CORP	- 7176Z	MW-2B	GRINER	78	MONITOR	4	07/93	24.45	08/20/93	112SESC	303642	911358	D W	1.93
East Baton Rouge	079	FERRO CORP	- 7177Z	MW-3A	GRINER	38	MONITOR	4	07/93	15.05	08/20/93	112SESC	303645	911356	D W	1.99
East Baton Rouge	079	FERRO CORP	- 7178Z	MW-3B	GRINER	86	MONITOR	4	07/93	22.5	08/20/93	112SESC	303645	911356	D W	1.99
East Baton Rouge	044	NPC SERVICES	- 7185Z	SBP-046	T.L. JAMES	69	PIEZOMETER	6	08/93	14	08/30/93	112SESC	303523	911310	D W	1.42
East Baton Rouge	044	NPC SERVICES	- 7186Z	W-1023-1	T.L. JAMES	85	PLUGGED	6	08/93	21	08/27/93	112SESC	303541	911436	D W	0.67
East Baton Rouge	044	NPC SERVICES	- 7187Z	W-0423-2	T.L. JAMES	75	PLUGGED	6	09/93	24	09/05/93	112SESC	303456	911433	D W	0.19
East Baton Rouge	044	NPC SERVICES	- 7188Z	W-0424-1	T.L. JAMES	78	RECOVERY	6	09/93	26	09/16/93	112SESC	303523	911310	D W	1.42
East Baton Rouge	044	NPC SERVICES	- 7211Z	W-0425-1	T.L. JAMES	73	PLUGGED	6	09/93	14	10/02/93	112SESC	303454	911430	D W	0.24
East Baton Rouge	044	NPC SERVICES	- 7212Z	W-0426-2	T.L. JAMES	73	PLUGGED	6	09/93	17	10/03/93	112SESC	303454	911430	D W	0.24
East Baton Rouge	044	NPC SERVICES	- 7213Z	W-0526-5	T.L. JAMES	83	PLUGGED	6	10/93	15	10/21/93	112SESC	303453	911430	D W	0.26
East Baton Rouge	044	NPC SERVICES	- 7214Z	W-0626-2	T.L. JAMES	82	RECOVERY	6	10/93	17	10/14/93	112SESC	303453	911431	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 7215Z	W-0522-1	T.L. JAMES	98	PLUGGED	6	11/93	17	11/19/93	112SESC	303456	911433	D W	0.19
East Baton	044	NPC	-	W-0523-2	T.L. JAMES	88	PLUGGED	6	11/93	13	12/03/93	112SESC	303455	911433	D W	0.21

Rouge		SERVICES	7216Z													
East Baton Rouge	044	NPC SERVICES	- 7217Z	W-0526-5	T.L. JAMES	83	RECOVERY	6	10/93	22	10/21/93	112SESC	303453	911431	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 7218Z	W-0624-2	T.L. JAMES	85	PLUGGED	6	11/93	19	11/07/93	112SESC	303454	911433	D W	0.23
East Baton Rouge	044	NPC SERVICES	- 7219Z	W-0625-2	T.L. JAMES	83	RECOVERY	6	10/93	21	10/30/93	112SESC	303453	911432	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 7220Z	W-0626-2	T.L. JAMES	82	RECOVERY	6	10/93	17	10/15/93	112SESC	303453	911431	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 7227Z	P-1126-3	T.L. JAMES	85	PIEZOMETER	2	12/93	25	11/14/93	112SESC	303451	911433	D W	0.29
East Baton Rouge	044	NPC SERVICES	- 7228Z	P-1231-1	T.L. JAMES	87	PIEZOMETER	2	12/93	8	01/14/93	112SESC	303452	911433	D W	0.27
East Baton Rouge	044	NPC SERVICES	- 7229Z	W-0524-3	T.L. JAMES	93	PLUGGED	6	01/94	36	01/14/94	112SESC	303454	911432	D W	0.23
East Baton Rouge	044	NPC SERVICES	- 7230Z	W-0525-3	T.L. JAMES	102	PLUGGED	6	12/93	37	01/14/94	112SLBR	303454	911432	D W	0.23
East Baton Rouge	044	NPC SERVICES	- 7231Z	W-0526-4	T.L. JAMES	93	PLUGGED	6	12/93	36	01/14/94	112SESC	303454	911431	D W	0.23
East Baton Rouge	044	NPC SERVICES	- 7232Z	W-0625-1	T.L. JAMES	102	PLUGGED	6	12/93	34	01/14/94	112SLBR	303453	911431	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 7252Z	W-0419-2	T.L. JAMES	103	PLUGGED	6	01/94	40	02/17/94	112SLBR	303458	911436	D W	0.16
East Baton Rouge	044	NPC SERVICES	- 7253Z	P-0519-2	T.L. JAMES	119	PIEZOMETER	6	01/94	56	02/17/94	112SLBR	303457	911437	D W	0.18
East Baton Rouge	044	NPC SERVICES	- 7254Z	W-0519-3	T.L. JAMES	106	PLUGGED	6	02/94	30	02/17/94	112SLBR	303458	911437	D W	0.16
East Baton	044	NPC	-	W-0520-2	T.L. JAMES	102	RECOVERY	6	02/94	22	03/09/94	112SLBR	303457	911436	D W	0.18

Rouge		SERVICES	7255Z													
East Baton Rouge	044	NPC SERVICES	- 7256Z	W-0521-2	T.L. JAMES	103	PLUGGED	6	02/94	21	03/09/94	112SLBR	303457	911436	D W	0.18
East Baton Rouge	044	NPC SERVICES	- 7257Z	W-0522-2	T.L. JAMES	98	PLUGGED	6	03/94	14	03/09/94	112SESC	303456	911434	D W	0.17
East Baton Rouge	044	NPC SERVICES	- 7320Z	W-0523-3	LEE, PETER B.	92	PLUGGED	6	05/94	35	05/07/94	112SESC	303455	911432	D W	0.21
East Baton Rouge	044	NPC SERVICES	- 7321Z	W-0524-1	LEE, PETER B.	90	PLUGGED	6	05/94	33	05/18/94	112SESC	303455	911432	D W	0.21
East Baton Rouge	044	NPC SERVICES	- 7322Z	W-0524-2	LEE, PETER B.	88	PLUGGED	6	05/94	35	05/11/94	112SESC	303455	911432	D W	0.21
East Baton Rouge	044	NPC SERVICES	- 7323Z	W-0525-2	LEE, PETER B.	93	PLUGGED	6	05/94	35	06/07/94	112SESC	303454	911431	D W	0.23
East Baton Rouge	044	NPC SERVICES	- 7324Z	P-0629-2	LEE, PETER B.	102	PIEZOMETER	2	05/94	35	05/28/94	112SLBR	303451	911428	D W	0.30
East Baton Rouge	044	NPC SERVICES	- 7364Z	W-0526-1	LEE, PETER B.	94	PLUGGED	6	07/94	35	07/22/94	112SESC	303454	911430	D W	0.24
East Baton Rouge	044	NPC SERVICES	- 7365Z	W-0526-3	LEE, PETER B.	94	PLUGGED	6	07/94	35	07/27/94	112SESC	303454	911430	D W	0.24
East Baton Rouge	044	NPC SERVICES	- 7408Z	W-0419-1	LEE, PETER B.	23	PLUGGED	6	08/94			112SESC	303458	911436	D	0.16
East Baton Rouge	044	NPC SERVICES	- 7409Z	W-0519-1	LEE, PETER B.	103	PLUGGED	6	04/94	34	04/06/94	112SESC	303458	911436	D W	0.16
East Baton Rouge	044	NPC SERVICES	- 7410Z	W-0521-3	LEE, PETER B.	97	PLUGGED	6	03/94	38	03/31/94	112SESC	303456	911434	D W	0.19
East Baton Rouge	044	NPC SERVICES	- 7411Z	W-0523-1	LEE, PETER B.	98	PLUGGED	6	04/94	35	04/15/94	112SESC	303455	911433	D W	0.21
East Baton	044	NPC	-	W-0525-1	LEE, PETER B.	90	PLUGGED	6	07/94	33	07/21/94	112SESC	303454	911431	D W	0.23

Rouge		SERVICES	7412Z														
East Baton Rouge	044	NPC SERVICES	- 7413Z	W-0526-2	LEE, PETER B.	89	PLUGGED	6	08/94	33	08/10/94	112SESC	303453	911430	D W	0.26
East Baton Rouge	044	NPC SERVICES	- 7414Z	W-0627-1	LEE, PETER B.	82	RECOVERY	6	08/94	35	08/18/94	112SESC	303452	911430	D W	0.28
East Baton Rouge	044	NPC SERVICES	- 7439Z	PBB-1232-1	LEE, PETER B.	77	PIEZOMETER	2	10/94	15	10/07/94	112SESC	303445	911430	D W	0.41
East Baton Rouge	044	NPC SERVICES	- 7440Z	PBB-1749-1	LEE, PETER B.	20	PIEZOMETER	2	09/94	10	10/05/94	112SESC	303430	911418	D W	0.74
East Baton Rouge	044	NPC SERVICES	- 7441Z	W-0625-3	LEE, PETER B.	83	RECOVERY	6	09/94	25	10/07/94	112SESC	303453	911432	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 7442Z	W-0626-3	LEE, PETER B.	83	RECOVERY	6	08/94	27	10/07/94	112SESC	303452	911431	D W	0.27
East Baton Rouge	044	NPC SERVICES	- 7443Z	W-0627-2	LEE, PETER B.	78	RECOVERY	6	10/94	25	10/07/94	112SESC	303453	911432	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 7444Z	W-0725-1	LEE, PETER B.	83	RECOVERY	6	09/94	12	10/07/94	112SESC	303452	911432	D W	0.27
East Baton Rouge	044	NPC SERVICES	- 7445Z	W-0725-3	LEE, PETER B.	74	RECOVERY	6	09/94	8.0	10/07/94	112SESC	303452	911433	D W	0.27
East Baton Rouge	044	NPC SERVICES	- 7446Z	W-0726-1	LEE, PETER B.	88	RECOVERY	6	09/94	19.5	10/07/94	112SESC	303452	911431	D W	0.27
East Baton Rouge	044	NPC SERVICES	- 7474Z	PBB-1444-2	LEE, PETER B.	141	PIEZOMETER	2	12/94	13	12/13/94	112SESC	303436	911420	D W	0.62
East Baton Rouge	044	NPC SERVICES	- 7475Z	PBB-2042-1	LEE, PETER B.	40	PIEZOMETER	2	12/94	10	12/13/94	112SESC	303431	911420	D W	0.71
East Baton Rouge	044	NPC SERVICES	- 7476Z	PBB-2653-1	LEE, PETER B.	40	PIEZOMETER	2	11/94	5	12/13/94	112SESC	303421	911420	D W	0.89
East Baton	044	NPC	-	PBB-2746-	LEE, PETER B.	90	PIEZOMETER	2	11/94	13.5	12/13/94	112SESC	303423	911426	D W	0.83

Rouge		SERVICES	7477Z	1												
East Baton Rouge	044	NPC SERVICES	- 7478Z	PBB-2746-2	LEE, PETER B.	45	PIEZOMETER	2	11/94	8	12/13/94	112SESC	303422	911426	D W	0.85
East Baton Rouge	044	NPC SERVICES	- 7479Z	PBB-2746-3	LEE, PETER B.	140	PIEZOMETER	2	11/94	13	12/13/94	112SESC	303423	911426	D W	0.83
East Baton Rouge	044	NPC SERVICES	- 7526Z	PBB-1737-2	LEE, PETER B.	51	PIEZOMETER	2	12/94	4	02/01/95	112SESC	303437	911428	D W	0.56
East Baton Rouge	044	NPC SERVICES	- 7527Z	PBB-1836-1	LEE, PETER B.	195	PIEZOMETER	2	12/94	7	02/01/95	11204BR	303437	911428	D W	0.56
East Baton Rouge	044	NPC SERVICES	- 7528Z	PBB-1836-2	LEE, PETER B.	160	PIEZOMETER	2	12/94	10	02/01/95	112SESC	303437	911430	D W	0.56
East Baton Rouge	044	NPC SERVICES	- 7529Z	PBB-1836-3	LEE, PETER B.	95	PIEZOMETER	2	12/94	7	02/01/95	112SESC	303437	911430	D W	0.56
East Baton Rouge	044	NPC SERVICES	- 7530Z	W-0721-1	LEE, PETER B.	74	RECOVERY	6	01/95	15	02/28/95	112SESC	303455	911436	D W	0.21
East Baton Rouge	044	NPC SERVICES	- 7531Z	W-0721-2	LEE, PETER B.	73	RECOVERY	6	01/95	17	02/28/95	112SESC	303455	911436	D W	0.21
East Baton Rouge	044	NPC SERVICES	- 7532Z	W-0722-4	LEE, PETER B.	78	RECOVERY	6	01/95	14	02/28/95	112SESC	303454	911436	D W	0.23
East Baton Rouge	044	NPC SERVICES	- 7533Z	W-0727-1	LEE, PETER B.	82	RECOVERY	6	10/94	17	02/01/95	112SESC	303451	911431	D W	0.29
East Baton Rouge	044	NPC SERVICES	- 7534Z	W-0821-2	LEE, PETER B.	68	RECOVERY	6	01/95	37	02/28/95	112SESC	303454	911437	D W	0.23
East Baton Rouge	044	SCHUYLKILL META	- 7535Z	W-1R	SOILS	48	MONITOR	2X2	01/95	27.6	01/26/95	112SESC	303501	911435	D W	0.10
East Baton Rouge	044	SCHUYLKILL META	- 7536Z	W-4R	SOILS	34	MONITOR	2X2	01/95	5.3	01/26/95	112SESC	303513	911444	D W	0.21
East Baton	044	SCHUYLKILL	-	W-12R	SOILS	40	MONITOR	2X2	01/95	3.4	01/26/95	112SESC	303515	911443	D W	0.23

Rouge		META	7537Z														
East Baton Rouge	044	SCHUYLKILL META	- 7538Z	W-13R	SOILS	49	MONITOR	2X2	01/95	28.7	01/26/95	112SESC	303505	911443	D W	0.15
East Baton Rouge	044	SCHUYLKILL META	- 7539Z	W-16	SOILS	28	MONITOR	2X2	01/95	3.6	01/26/95	112SESC	303510	911445	D W	0.20
East Baton Rouge	044	SCHUYLKILL META	- 7540Z	W-17	SOILS	34	MONITOR	2X2	01/95	6.8	01/26/95	112SESC	303508	911445	D W	0.19
East Baton Rouge	044	SCHUYLKILL META	- 7541Z	W-18	SOILS	42	MONITOR	2X2	02/95	27.2	02/15/95	112SESC	303506	911444	D W	0.16
East Baton Rouge	044	NPC SERVICES	- 7562Z	W-0721-3	LEE, PETER B.	83	RECOVERY	6	01/95	31	04/24/95	112SESC	303454	911436	D W	0.23
East Baton Rouge	044	NPC SERVICES	- 7563Z	W-0722-1	LEE, PETER B.	78	RECOVERY	6	02/95	12	04/24/95	112SESC	303454	911435	D W	0.23
East Baton Rouge	044	NPC SERVICES	- 7564Z	W-0722-3	LEE, PETER B.	84	RECOVERY	6	03/95	4	04/24/95	112SESC	303454	911436	D W	0.23
East Baton Rouge	044	NPC SERVICES	- 7565Z	W-0822-1	LEE, PETER B.	83	RECOVERY	6	02/95	38	04/24/95	112SESC	303454	911436	D W	0.23
East Baton Rouge	044	NPC SERVICES	- 7566Z	W-0622-3	LEE, PETER B.	78	RECOVERY	6	04/95	19	04/24/95	112SESC	303454	911434	D W	0.23
East Baton Rouge	044	NPC SERVICES	- 7567Z	W-0722-2	LEE, PETER B.	83	RECOVERY	6	04/95	16	04/24/95	112SESC	303454	911435	D W	0.23
East Baton Rouge	044	NPC SERVICES	- 7568Z	W-0822-2	LEE, PETER B.	100	RECOVERY	6	05/95	20	05/03/95	112SESC	303453	911435	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 7569Z	W-0822-3	LEE, PETER B.	130	RECOVERY	6	03/95	59	04/24/95	112SESC	303453	911436	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 7570Z	W-1127-3	LEE, PETER B.	83	PLUGGED	6	03/95	27	04/24/95	112SESC	303447	911434	D W	0.36
East Baton	044	NPC	-	P-0427-1	LEE, PETER B.	205	PIEZOMETER	2	02/95	45	05/22/95	11204BR	303454	911429	D W	0.24

Rouge		SERVICES	7577Z														
East Baton Rouge	044	NPC SERVICES	-7578Z	W-0723-1	LEE, PETER B.	80	RECOVERY	6	05/95	8	05/22/95	112SESC	303454	911434	D W	0.23
East Baton Rouge	044	NPC SERVICES	-7579Z	W-0723-4	LEE, PETER B.	90	RECOVERY	6	06/95	10	06/02/95	112SESC	303453	911435	D W	0.25
East Baton Rouge	044	NPC SERVICES	-7580Z	P-0935-4	LEE, PETER B.	184	PIEZOMETER	2	01/95	12	05/22/95	112SESC	303444	911424	D W	0.45
East Baton Rouge	044	NPC SERVICES	-7587Z	SBP-075	LEE, PETER B.	25	PIEZOMETER	4	03/95	10	05/22/95	112SESC	303512	911303	D W	1.50
East Baton Rouge	044	NPC SERVICES	-7588Z	SBP-081	LEE, PETER B.	32	PIEZOMETER	4	04/95	13	05/22/95	112SESC	303528	911309	D W	1.46
East Baton Rouge	044	NPC SERVICES	-7589Z	SBP-082	LEE, PETER B.	92	PIEZOMETER	4	04/95	25	05/22/95	112SLBR	303532	911324	D W	1.26
East Baton Rouge	044	NPC SERVICES	-7590Z	SBP-083	LEE, PETER B.	95	PIEZOMETER	4	05/95	28	05/22/95	112SLBR	303527	911339	D W	0.99
East Baton Rouge	044	NPC SERVICES	-7591Z	SDG-2R2	LEE, PETER B.	117	PIEZOMETER	4	05/95	25	05/26/95	112SLBR	303519	911312	D W	1.37
East Baton Rouge	033	ROLLINS ENV SER	-7601Z	MW-53C	AQUATERRA, INC.	106	MONITOR	2	06/95	30.18	06/21/95	112SLBR	303356	911306	D W	1.97
East Baton Rouge	044	NPC SERVICES	-7603Z	W-0723-2	LEE, PETER B.	73	RECOVERY	6	06/95	15	06/30/95	112SESC	303453	911434	D W	0.25
East Baton Rouge	044	NPC SERVICES	-7604Z	W-0824-2	LEE, PETER B.	77	RECOVERY	6	06/95	10	06/30/95	112SESC	303452	911434	D W	0.27
East Baton Rouge	044	NPC SERVICES	-7605Z	W-0923-2	LEE, PETER B.	132	PLUGGED	6	06/95	15	06/30/95	112SESC	303452	911436	D W	0.27
East Baton Rouge	044	SCHUYLKILL META	-7630Z	P-1/B2	SINGLEY	56	PLUGGED	2	07/95	30	07/15/95	112SLBR	303512	911458	D W	0.41
East Baton	044	SCHUYLKILL	-	P-2/B4	SINGLEY	23	PLUGGED	2	07/95	3	07/16/95	112SESC	303510	911457	D W	0.39

Rouge		META	7631Z														
East Baton Rouge	044	SCHUYLKILL META	- 7632Z	P-3/B6	SINGLEY	24	PLUGGED	2	07/95	3	07/16/95	112SESC	303510	911459	D W	0.42
East Baton Rouge	044	SCHUYLKILL META	- 7633Z	P-4/B6	SINGLEY	95	PLUGGED	2	07/95	16	07/16/95	112SLBR	303510	911459	D W	0.42
East Baton Rouge	044	NPC SERVICES	- 7635Z	W-0723-3	LEE, PETER B.	73	RECOVERY	6	07/95	10	08/31/95	112SESC	303453	911434	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 7636Z	W-0723-5	LEE, PETER B.	73	RECOVERY	6	08/95	8	08/31/95	112SESC	303453	911434	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 7637Z	W-0824-1	LEE, PETER B.	93	RECOVERY	6	07/95	14	08/31/95	112SESC	303452	911434	D W	0.27
East Baton Rouge	044	NPC SERVICES	- 7643Z	W-0724-2	LEE, PETER B.	73	RECOVERY	6	08/95	9	09/20/95	112SESC	303453	911433	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 7644Z	W-0724-3	LEE, PETER B.	73	RECOVERY	6	08/95	19	09/20/95	112SESC	303452	911433	D W	0.27
East Baton Rouge	044	NPC SERVICES	- 7645Z	W-0720-4	LEE, PETER B.	58	RECOVERY	6	09/95	20	09/28/95	112SESC	303455	911437	D W	0.22
East Baton Rouge	044	NPC SERVICES	- 7646Z	W-0820-2	LEE, PETER B.	63	RECOVERY	6	09/95	38	09/20/95	112SESC	303454	911438	D W	0.24
East Baton Rouge	044	NPC SERVICES	- 7647Z	W-0823-3	LEE, PETER B.	122	RECOVERY	6	08/95	15	09/20/95	112SESC	303453	911435	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 7648Z	W-0925-1	LEE, PETER B.	83	RECOVERY	6	09/95	20	09/28/95	112SESC	303451	911434	D W	0.29
East Baton Rouge	044	NPC SERVICES	- 7666Z	W-0825-2	LEE, PETER B.	78	RECOVERY	6	10/95	20	10/20/95	112SESC	303452	911434	D W	0.27
East Baton Rouge	044	NPC SERVICES	- 7667Z	W-1025-2	LEE, PETER B.	83	RECOVERY	6	10/95	34	10/20/95	112SESC	303451	911435	D W	0.29
East Baton	047	ROLLINS ENV	-	I-11	AQUATERRA,	43	RECOVERY	6	10/95	6.5	11/16/95	112SESC	303408	911311	D W	1.76

Rouge		SER	7670Z		INC.											
East Baton Rouge	044	NPC SERVICES	-7680Z	W1027-1	NPC SERVICES	90	RECOVERY	6	08/96	31.6	08/08/96	112SESC	303449	911437	D W	0.33
East Baton Rouge	044	NPC SERVICES	-7681Z	W-0624-3	LEE, PETER B.	87	PLUGGED	6	11/95	27	12/27/95	112SESC	303454	911433	D W	0.23
East Baton Rouge	044	NPC SERVICES	-7682Z	W-0628-2	LEE, PETER B.	78	RECOVERY	6	11/95	37	12/27/95	112SESC	303454	911430	D W	0.24
East Baton Rouge	044	NPC SERVICES	-7683Z	W-0724-1	LEE, PETER B.	91	RECOVERY	6	12/95	28	12/27/95	112SESC	303453	911433	D W	0.25
East Baton Rouge	044	NPC SERVICES	-7684Z	W-0726-3	LEE, PETER B.	88	RECOVERY	6	01/96	30	01/10/96	112SESC	303452	911432	D W	0.27
East Baton Rouge	044	NPC SERVICES	-7685Z	W-0728-2	LEE, PETER B.	83	RECOVERY	6	12/95	36	12/27/95	112SESC	303451	911430	D W	0.29
East Baton Rouge	044	NPC SERVICES	-7686Z	W-0823-1	LEE, PETER B.	88	RECOVERY	6	11/95	25	12/30/95	112SESC	303453	911435	D W	0.25
East Baton Rouge	044	NPC SERVICES	-7687Z	W-0825-2	LEE, PETER B.	78	RECOVERY	6	10/95	26	10/31/95	112SESC	303452	911434	D W	0.27
East Baton Rouge	044	NPC SERVICES	-7688Z	W-1025-2	LEE, PETER B.	83	RECOVERY	6	10/95	27	12/04/95	112SESC	303452	911434	D W	0.27
East Baton Rouge	044	NPC SERVICES	-7715Z	W-0521-4	LEE, PETER B.	93	PLUGGED	6	03/96	54	03/27/96	112SESC	303456	911436	D W	0.19
East Baton Rouge	044	NPC SERVICES	-7716Z	W-0522-3	LEE, PETER B.	93	PLUGGED	6	03/96	55	03/27/96	112SESC	303456	911435	D W	0.19
East Baton Rouge	044	NPC SERVICES	-7717Z	W-0623-2	LEE, PETER B.	93	PLUGGED	6	02/96	57	03/27/96	112SESC	303455	911434	D W	0.21
East Baton Rouge	044	NPC SERVICES	-7718Z	W-0523-4	LEE, PETER B.	88	PLUGGED	6	03/96	55	03/27/96	112SESC	303455	911434	D W	0.21
East Baton	044	NPC	-	W-0726-2	LEE, PETER B.	88	RECOVERY	6	02/96	37	03/27/96	112SESC	303452	911432	D W	0.27

Rouge		SERVICES	7719Z														
East Baton Rouge	044	NPC SERVICES	- 7720Z	W-0728-1	LEE, PETER B.	83	RECOVERY	6	03/96	32	03/27/96	112SESC	303451	911430	D W	0.29
East Baton Rouge	044	NPC SERVICES	- 7757Z	W-0728-3	LEE, PETER B.	83	RECOVERY	6	05/96	34	05/15/96	112SESC	303451	911430	D W	0.29
East Baton Rouge	044	NPC SERVICES	- 7758Z	W-0522-4	LEE, PETER B.	93	PLUGGED	6	05/96	55	05/16/96	112SESC	303456	911435	D W	0.19
East Baton Rouge	047	ROLLINS ENV SER	- 7762Z	I-12	FUGRO (GS)	58	RECOVERY	6	05/96	35	06/03/96	112SESC	303410	911309	D W	1.76
East Baton Rouge	048	ROLLINS ENV SER	- 7767Z	I-13	AQUATERRA, INC.	51	RECOVERY	6	07/96	30.50	07/12/96	112SESC	303400	911303	D W	1.96
East Baton Rouge	044	NPC SERVICES	- 7775Z	W-0620-3	NPC SERVICES	88	PLUGGED	6	07/96	42.0	07/29/96	112SESC	303456	911436	D W	0.19
East Baton Rouge	044	NPC SERVICES	- 7776Z	W-0620-4	NPC SERVICES	78	PLUGGED	6	07/96	34.2	07/31/96	112SESC	303455	911437	D W	0.22
East Baton Rouge	044	NPC SERVICES	- 7777Z	W-0621-2	NPC SERVICES	88	RECOVERY	6	07/96	34.5	07/31/96	112SESC	303455	911436	D W	0.21
East Baton Rouge	044	NPC SERVICES	- 7778Z	W-0621-3	NPC SERVICES	83	RECOVERY	6	08/96	29.0	08/08/96	112SESC	303455	911433	D W	0.21
East Baton Rouge	044	NPC SERVICES	- 7779Z	W-0622-2	NPC SERVICES	77	RECOVERY	6	07/96	34.2	07/29/96	112SESC	303455	911435	D W	0.21
East Baton Rouge	144	NPC SERVICES	- 7847Z	W-0628-1	NPC SERVICES	72	RECOVERY	6	04/97	27	04/24/97	112SESC	303452	911429	D W	0.25
East Baton Rouge	144	NPC SERVICES	- 7848Z	W-0629-1	NPC SERVICES	60	RECOVERY	6	04/97	22	04/24/97	112SESC	303451	911428	D W	0.30
East Baton Rouge	144	NPC SERVICES	- 7849Z	SC SUG 1R	NPC SERVICES	132	MONITOR	4	04/97	23.5	04/24/97	11204BR	303524	911300	D W	1.59
East Baton	144	NPC	-	SCSUG20-	NPC SERVICES	89	MONITOR	4	04/97	15.3	04/24/97	112SESC	303524	911300	D W	1.59

Rouge		SERVICES	7850Z	1												
East Baton Rouge	144	NPC SERVICES	-7851Z	SCSUG40-1	NPC SERVICES	37	MONITOR	4	04/97	15.3	04/24/97	112SESC	303524	911300	D W	1.59
East Baton Rouge	144	NPC SERVICES	-7852Z	SBP-04A	NPC SERVICES	22	PIEZOMETER	2	04/97	20.5	05/01/97	112SESC	303515	911305	D W	1.48
East Baton Rouge	144	NPC SERVICES	-7854Z	SBP-17B	NPC SERVICES	71	PIEZOMETER	2	04/97	24.5	05/01/97	112SESC	303524	911314	D W	1.36
East Baton Rouge	144	NPC SERVICES	-7855Z	SBP-41A	NPC SERVICES	37	PIEZOMETER	2	04/97	23.6	05/14/97	112SESC	303522	911302	D W	1.55
East Baton Rouge	144	NPC SERVICES	-7856Z	SBP-41B	NPC SERVICES	62	PIEZOMETER	2	04/97	22.3	05/14/97	112SESC	303522	911302	D W	1.55
East Baton Rouge	144	NPC SERVICES	-7857Z	SBP-62A	NPC SERVICES	31	PIEZOMETER	2	04/97	27.3	05/14/97	112SESC	303525	911321	D W	1.26
East Baton Rouge	144	NPC SERVICES	-7858Z	SBP-62B	NPC SERVICES	71	PIEZOMETER	2	04/97	27.8	05/14/97	112SESC	303525	911321	D W	1.26
East Baton Rouge	144	NPC SERVICES	-7859Z	SBP-70A	NPC SERVICES	31	PIEZOMETER	2	04/97	27.3	05/14/97	112SESC	303528	911322	D W	1.26
East Baton Rouge	144	NPC SERVICES	-7860Z	SBP-70B	NPC SERVICES	71	PIEZOMETER	2	04/97	27.3	05/14/97	112SESC	303528	911322	D W	1.26
East Baton Rouge	144	NPC SERVICES	-7861Z	SBP-72A	NPC SERVICES	38	PIEZOMETER	2	05/97	33.8	05/14/97	112SESC	303521	911307	D W	1.46
East Baton Rouge	144	NPC SERVICES	-7862Z	SBP-75B	NPC SERVICES	165	PIEZOMETER	2	05/97	49.7	05/20/97	11204BR	303511	911303	D W	1.50
East Baton Rouge	144	NPC SERVICES	-7863Z	SBP-84A	NPC SERVICES	26	PIEZOMETER	2	04/97	22.4	05/14/97	112SESC	303526	911330	D W	1.12
East Baton Rouge	144	NPC SERVICES	-7864Z	SBP-84B	NPC SERVICES	72	PIEZOMETER	2	04/97	27.6	05/14/97	112SESC	303526	911330	D W	1.12
East Baton	144	NPC	-	W-1120-1	NPC SERVICES	67	PIEZOMETER	6	04/97	18.4	04/28/97	112SESC	303452	911440	D W	0.29

Rouge		SERVICES	7865Z														
East Baton Rouge	044	NPC SERVICES	- 7868Z	SBP-17A	NPC SERVICES	34	PIEZOMETER	2	10/96	28	01/16/97	112SESC	303524	911314	D W	1.36
East Baton Rouge	044	NPC SERVICES	- 7869Z	SBP-37A	NPC SERVICES	22	PIEZOMETER	2	08/96	17.1	11/20/96	112SESC	303521	911312	D W	1.38
East Baton Rouge	044	NPC SERVICES	- 7870Z	SBP-37B	NPC SERVICES	53	PIEZOMETER	2	08/96	15.2	11/20/96	112SESC	303521	911312	D W	1.38
East Baton Rouge	044	NPC SERVICES	- 7871Z	SBP-40A	NPC SERVICES	34	PIEZOMETER	2	09/96	23.5	11/20/96	112SESC	303525	911304	D W	1.53
East Baton Rouge	044	NPC SERVICES	- 7872Z	SBP-40B	NPC SERVICES	62	PIEZOMETER	2	10/96	24.8	11/20/96	112SESC	303525	911304	D W	1.53
East Baton Rouge	044	NPC SERVICES	- 7873Z	SBP-40C	NPC SERVICES	122	PIEZOMETER	2	10/96	42.9	11/20/96	112SESC	303525	911304	D W	1.53
East Baton Rouge	044	NPC SERVICES	- 7874Z	SBP-40D	NPC SERVICES	164	PIEZOMETER	2	10/96	45.1	11/20/96	112SESC	303525	911304	D W	1.53
East Baton Rouge	044	NPC SERVICES	- 7875Z	SBP-58A	NPC SERVICES	35	PIEZOMETER	2	10/96	23.0	01/16/97	112SESC	303529	911311	D W	1.44
East Baton Rouge	044	NPC SERVICES	- 7876Z	SBP-58B	NPC SERVICES	122	PIEZOMETER	2	10/96	29.8	11/20/96	112SESC	303529	911311	D W	1.44
East Baton Rouge	044	NPC SERVICES	- 7877Z	SBP-58C	NPC SERVICES	162	PIEZOMETER	2	10/96	46.5	11/20/96	112SESC	303529	911311	D W	1.44
East Baton Rouge	044	NPC SERVICES	- 7878Z	SBP-65A	NPC SERVICES	29	PIEZOMETER	2	08/96	11.6	11/20/96	112SESC	303528	911311	D W	1.43
East Baton Rouge	044	NPC SERVICES	- 7879Z	SBP-65B	NPC SERVICES	53	PIEZOMETER	2	08/96	11.6	11/20/96	112SESC	303528	911311	D W	1.43
East Baton Rouge	044	NPC SERVICES	- 7880Z	SBP-65C	NPC SERVICES	106	PIEZOMETER	2	08/96	26.9	11/20/96	112SLBR	303528	911311	D W	1.43
East Baton	044	NPC	-	SBP-65D	NPC SERVICES	146	PIEZOMETER	2	08/96	35	11/20/96	112SESC	303528	911311	D W	1.43

Rouge		SERVICES	7881Z													
East Baton Rouge	044	NPC SERVICES	- 7882Z	SBP-67A	NPC SERVICES	122	PIEZOMETER	2	09/96	38.85	11/20/96	112SESC	303519	911315	D W	1.32
East Baton Rouge	044	NPC SERVICES	- 7883Z	SBP-67B	NPC SERVICES	214	PIEZOMETER	2	10/96	44.6	11/20/96	11204BR	303519	911316	D W	1.31
East Baton Rouge	044	NPC SERVICES	- 7884Z	SBP-69A	NPC SERVICES	35	PIEZOMETER	2	09/96	DRY	01/16/97	112SESC	303528	911332	D W	1.10
East Baton Rouge	044	NPC SERVICES	- 7885Z	SBP-69B	NPC SERVICES	70	PIEZOMETER	2	08/96	35.6	01/16/97	112SESC	303528	911332	D W	1.10
East Baton Rouge	044	NPC SERVICES	- 7886Z	SBP-69C	NPC SERVICES	160	PIEZOMETER	2	09/96	48.8	01/16/97	112SESC	303528	911332	D W	1.10
East Baton Rouge	044	NPC SERVICES	- 7887Z	SBP-80A	NPC SERVICES	91	PIEZOMETER	2	09/96	11.0	01/16/97	112SESC	303511	911309	D W	1.40
East Baton Rouge	044	NPC SERVICES	- 7888Z	SBP-80B	NPC SERVICES	204	PIEZOMETER	2	09/96	22.94	11/20/96	11204BR	303511	911308	D W	1.42
East Baton Rouge	044	NPC SERVICES	- 7889Z	SBP-82A	NPC SERVICES	31	PIEZOMETER	2	08/96	31	11/20/96	112SESC	303532	911324	D W	1.26
East Baton Rouge	044	NPC SERVICES	- 7890Z	SBP-82B	NPC SERVICES	71	PIEZOMETER	2	08/96	31	11/20/96	112SESC	303532	911324	D W	1.26
East Baton Rouge	044	NPC SERVICES	- 7891Z	SBP-82C	NPC SERVICES	161	PIEZOMETER	2	08/96	48.1	11/20/96	112SESC	303532	911324	D W	1.26
East Baton Rouge	044	NPC SERVICES	- 7892Z	SBP-82D	NPC SERVICES	203	PIEZOMETER	2	09/96	48	11/20/96	11204BR	303532	911324	D W	1.26
East Baton Rouge	044	NPC SERVICES	- 7893Z	VSP-1	NPC SERVICES	30	PIEZOMETER	4	12/96	25.2	01/13/97	112SLBR	303513	911428	D W	0.17
East Baton Rouge	044	NPC SERVICES	- 7894Z	VSP-2	NPC SERVICES	23	PIEZOMETER	4	12/96	32.8	01/13/97	112SESC	303516	911423	D W	0.26
East Baton	044	NPC	-	VSP-3	NPC SERVICES	32	PIEZOMETER	4	12/96	36.6	01/13/97	112SESC	303521	911419	D W	0.38

Rouge		SERVICES	7895Z													
East Baton Rouge	044	NPC SERVICES	- 7896Z	VSP-4	NPC SERVICES	39	PIEZOMETER	4	12/96	38.4	01/14/97	112SESC	303522	911409	D W	0.51
East Baton Rouge	044	NPC SERVICES	- 7897Z	VSP-5	NPC SERVICES	39	PIEZOMETER	4	12/96	38.5	01/14/97	112SESC	303521	911403	D W	0.59
East Baton Rouge	044	NPC SERVICES	- 7898Z	VSP-6	NPC SERVICES	31	PIEZOMETER	4	12/96	31.8	01/14/97	112SESC	303513	911400	D W	0.58
East Baton Rouge	044	NPC SERVICES	- 7899Z	VSP-7	NPC SERVICES	32	PIEZOMETER	4	12/96	30.2	01/14/97	112SESC	303510	911407	D W	0.45
East Baton Rouge	044	NPC SERVICES	- 7900Z	W0823-4	NPC SERVICES	122	RECOVERY	6	02/97	28.7	02/12/97	112SESC	303453	911435	D W	0.25
East Baton Rouge	144	NPC SERVICES	- 7906Z	SC-SUG-1	LAYNE (LA)	107	PLUGGED	4	11/84			112SESC	303526	911308		1.47
East Baton Rouge	144	NPC SERVICES	- 7907Z	SC-SDG-2R	LAYNE (LA)	108	PLUGGED	4	03/85			112SESC	303521	911312		1.38
East Baton Rouge	044	NPC SERVICES	- 7934Z	W-0927-1	NPC SERVICES	82	RECOVERY	6	10/97	24	11/05/97	112SESC	303449	911437	D W	0.33
East Baton Rouge	044	NPC SERVICES	- 7980Z	P-0936-1	WALKER-HILL (CO)	35	MONITOR	2	10/97	7	03/05/98	112SESC	303444	911424	D W	0.45
East Baton Rouge	044	NPC SERVICES	- 7981Z	P-1426-1	WALKER-HILL (CO)	50	MONITOR	2	02/98	7	03/06/98	112SESC	303446	911436	D W	0.38
East Baton Rouge	044	NPC SERVICES	- 7982Z	P-1426-2	WALKER-HILL (CO)	102	MONITOR	2	02/98	7	03/06/98	112SLBR	303446	911436	D W	0.38
East Baton Rouge	044	NPC SERVICES	- 7983Z	P-1535-2	WALKER-HILL (CO)	45	MONITOR	2	01/98	2	03/06/98	112SESC	303440	911429	D W	0.50
East Baton Rouge	044	NPC SERVICES	- 7984Z	P-1535-3	WALKER-HILL (CO)	95	MONITOR	2	01/98	3	03/06/98	112SLBR	303439	911444	D W	0.54
East Baton	044	NPC	-	P-1620-1	WALKER-HILL	40	MONITOR	2	01/98	7	02/13/98	112SESC	303447	911444	D W	0.40

Rouge		SERVICES	7985Z		(CO)											
East Baton Rouge	044	NPC SERVICES	- 7986Z	P-1620-2	WALKER-HILL (CO)	90	MONITOR	2	01/98	9	02/13/98	112SESC	303447	911444	D W	0.40
East Baton Rouge	044	NPC SERVICES	- 7987Z	P-1620-3	WALKER-HILL (CO)	200	MONITOR	2	01/98	10	02/13/98	11204BR	303447	911444	D W	0.40
East Baton Rouge	044	NPC SERVICES	- 7988Z	P-1715-1	WALKER-HILL (CO)	100	MONITOR	2	01/98	6	03/05/98	112SESC	303448	911452	D W	0.45
East Baton Rouge	044	NPC SERVICES	- 7989Z	P-1749-2	WALKER-HILL (CO)	215	MONITOR	2	12/97	3	03/05/98	11204BR	303430	911418	D W	0.74
East Baton Rouge	044	NPC SERVICES	- 7990Z	P-1808-1	WALKER-HILL (CO)	90	MONITOR	2	01/98	10	03/05/98	112SESC	303458	911457	D W	0.41
East Baton Rouge	044	NPC SERVICES	- 7991Z	P-1931-1	WALKER-HILL (CO)	90	MONITOR	2	12/97	4	03/05/98	112SESC	303438	911434	D W	0.54
East Baton Rouge	044	NPC SERVICES	- 7992Z	P-1931-2	WALKER-HILL (CO)	140	MONITOR	2	12/97	4	03/05/98	112SESC	303438	911434	D W	0.54
East Baton Rouge	044	NPC SERVICES	- 7993Z	P-1931-3	WALKER-HILL (CO)	200	MONITOR	2	12/97	4	03/05/98	11204BR	303438	911434	D W	0.54
East Baton Rouge	044	NPC SERVICES	- 7994Z	P-1947-2	WALKER-HILL (CO)	45	MONITOR	2	11/97	1	03/06/98	112SESC	303428	911421	D W	0.76
East Baton Rouge	044	NPC SERVICES	- 7995Z	P-1947-3	WALKER-HILL (CO)	85	MONITOR	2	11/97	1	03/06/98	112SESC	303428	911421	D W	0.76
East Baton Rouge	044	NPC SERVICES	- 7996Z	P-1947-4	WALKER-HILL (CO)	150	MONITOR	2	11/97	1	03/06/98	112SESC	303428	911421	D W	0.76
East Baton Rouge	044	NPC SERVICES	- 7997Z	P-2324-1	WALKER-HILL (CO)	90	MONITOR	2	12/97	1	03/06/98	112SESC	303440	911446	D W	0.54
East Baton Rouge	044	NPC SERVICES	- 7998Z	P-2324-2	WALKER-HILL (CO)	150	MONITOR	2	12/97	2	03/06/98	112SESC	303440	911446	D W	0.54
East Baton	044	NPC	-	P-2342-1	WALKER-HILL	65	MONITOR	2	11/97	2	03/05/98	112SESC	303430	911428	D W	0.70

Rouge		SERVICES	7999Z		(CO)												
East Baton Rouge	044	NPC SERVICES	- 8000Z	P-2342-2	WALKER-HILL (CO)	90	MONITOR	2	11/97	2	03/05/98	112SESC	303430	911428	D W	0.70
East Baton Rouge	044	NPC SERVICES	- 8001Z	P-2442-1	WALKER-HILL (CO)	65	MONITOR	2	12/97	2	03/06/98	112SESC	303429	911429	D W	0.71
East Baton Rouge	044	NPC SERVICES	- 8002Z	P-2953-1	WALKER-HILL (CO)	40	MONITOR	2	11/97	2	03/06/98	112SESC	303419	911421	D W	0.92
East Baton Rouge	044	SCHUYLKILL META	- 8014Z	MW-1	SOIL TESTING	55	MONITOR	2	03/98	27.3	04/22/98	112SESC	303514	911456	D W	0.39
East Baton Rouge	044	SCHUYLKILL META	- 8015Z	MW-19	SOIL TESTING	55	MONITOR	2	03/98	27.3	04/22/98	112SESC	303514	911456	D W	0.39
East Baton Rouge	044	SCHUYLKILL META	- 8016Z	MW-20	SOIL TESTING	22	MONITOR	2	03/98	2.5	04/22/98	112SESC	303509	911457	D W	0.38
East Baton Rouge	044	SCHUYLKILL META	- 8017Z	MW-21	SOIL TESTING	22	MONITOR	2	03/98	1	04/22/98	112SESC	303508	911451	D W	0.28
East Baton Rouge	050	CHESAPEAKE OPER	- 8037Z	KAISER50 1	BURLESON	200	PLUGGED	6	08/98	40	08/06/98	11204BR	303632	911543	D W	2.00
East Baton Rouge	044	NPC SERVICES	- 8056Z	P-1223-3	NPC SERVICES	87	PIEZOMETER	2	08/98	27.61	08/19/98	112SLBR	303442	911434	D W	0.46
East Baton Rouge	044	NPC SERVICES	- 8057Z	P-1426-3	NPC SERVICES	100	PIEZOMETER	2	08/98	19.25	08/17/98	112SLBR	303446	911436	D W	0.38
East Baton Rouge	044	NPC SERVICES	- 8058Z	P-1426-4	NPC SERVICES	101	PIEZOMETER	2	08/98	19.44	08/17/98	112SLBR	303446	911435	D W	0.38
East Baton Rouge	044	NPC SERVICES	- 8059Z	P-1426-5	NPC SERVICES	102	PIEZOMETER	2	08/98	19.91	08/17/98	112SLBR	303446	911436	D W	0.38
East Baton Rouge	044	NPC SERVICES	- 8060Z	P-1426-6	NPC SERVICES	102	PIEZOMETER	2	08/98	19.41	08/17/98	112SLBR	303446	911436	D W	0.38
East Baton	044	NPC	-	P-1426-7	NPC SERVICES	102	PIEZOMETER	2	08/98	19.41	08/17/98	112SLBR	303446	911435	D W	0.38

Rouge		SERVICES	8061Z													
East Baton Rouge	044	NPC SERVICES	- 8062Z	P-1426-8	NPC SERVICES	102	PIEZOMETER	2	08/98	19.71	08/17/98	112SESC	303446	911436	D W	0.38
East Baton Rouge	058	GREATER BR PORT	- 8107Z	MW-1A	SEMS, INC.	37	MONITOR	4	12/98	30.53	12/18/98	112SESC	303357	911306	D W	1.96
East Baton Rouge	044	SCHUYLKILL META	- 8158Z	W-1	URS CORPORATION	46	PLUGGED	2	09/80			112SLBR	303501	911435		0.10
East Baton Rouge	044	SCHUYLKILL META	- 8159Z	W-2	URS CORPORATION	50	PLUGGED	2	09/80			112SLBR	303509	911434		0.06
East Baton Rouge	044	SCHUYLKILL META	- 8160Z	W-7	URS CORPORATION	30	PLUGGED	2	09/80			112SESC	303450	911248		1.77
East Baton Rouge	044	SCHUYLKILL META	- 8161Z	W-8	URS CORPORATION	48	PLUGGED	2	09/80			112SLBR	303509	911445		0.19
East Baton Rouge	044	SCHUYLKILL META	- 8162Z	W-11	URS CORPORATION	50	PLUGGED	2	01/81			112SLBR	303515	911433		0.17
East Baton Rouge	044	SCHUYLKILL META	- 8163Z	W-12	CAPOZZOLI	47	PLUGGED	2	01/85			112SLBR	303515	911443		0.23
East Baton Rouge	044	SCHUYLKILL META	- 8164Z	W-13	CAPOZZOLI	47	PLUGGED	2	01/85			112SLBR	303505	911443		0.15
East Baton Rouge	044	EXIDE CORP	- 8188Z	MW-1A	AQUATERRA, LLC.	44	MONITOR	2	03/99	38.86	04/15/99	112SLBR	303502	911433	D W	0.08
East Baton Rouge	044	EXIDE CORP	- 8189Z	MW-14A	AQUATERRA, LLC.	36	MONITOR	2	03/99	28.97	04/15/99	112SLBR	303523	911438	D W	0.33
East Baton Rouge	044	EXIDE CORP	- 8190Z	MW-15A	AQUATERRA, LLC.	38	MONITOR	2	03/99	32.05	04/15/99	112SLBR	303520	911440	D W	0.29
East Baton Rouge	044	NPC SERVICES	- 8256Z	P-1422-2	NPC SERVICES	120	PIEZOMETER	4	08/99	20	08/25/00	112SLBR	303448	911441	D W	0.36
East Baton	050	LA FACILITY	-	JESTC#1	LAYNE (BR)	315	PUBLIC	4	10/00	71	09/22/00	11205BR	303620	911544	D W	1.83

Rouge		PLN	8464Z				SUPPLY										
East Baton Rouge	079	BATON ROUGE, LA	- 8488Z	MW-17	SOIL TESTING	61	MONITOR	4	02/01	50.9	02/13/01	112SESC	303548	911405	D W	0.93
East Baton Rouge	079	BATON ROUGE, LA	- 8489Z	MW-18	SOIL TESTING	64	MONITOR	4	02/01	53.4	02/13/01	112SESC	303548	911412	D W	0.88
East Baton Rouge	082	LAYNE CHRISTENS	- 8614Z	JESTC #1	RIG WATER	240	RIG SUPPLY	4	04/02	50	04/11/02	11204BR	303552	911526	D W	1.23
East Baton Rouge	044	NPC SERVICES	- 8615Z	W-0424-1	NPC SERVICES	78	PLUGGED	6	09/93	30	05/23/02	112SESC	303455	911431	D W	0.22
East Baton Rouge	044	NPC SERVICES	- 8616Z	W-0520-3	NPC SERVICES	93	PLUGGED	6	05/96	20	05/23/02	112SESC	303454	911431	D W	0.23
East Baton Rouge	044	NPC SERVICES	- 8617Z	W-0620-5	NPC SERVICES	83	PLUGGED	6	05/96	10	05/23/02	112SESC	303454	911432	D W	0.23
East Baton Rouge	044	NPC SERVICES	- 8618Z	W-0621-1	NPC SERVICES	88	PLUGGED	6	04/96	16	05/23/02	112SESC	303453	911431	D W	0.25
East Baton Rouge	044	NPC SERVICES	- 8619Z	W-0622-1	NPC SERVICES	88	PLUGGED	6	04/96	18	05/23/02	112SESC	303454	911432	D W	0.23
East Baton Rouge	044	NPC SERVICES	- 8692Z	P-2522-1	WALKER-HILL (CO)	203	MONITOR	4	11/02			11204BR	303438	911447	D	0.58
East Baton Rouge	044	NPC SERVICES	- 8693Z	P-2528-1	WALKER-HILL (CO)	210	MONITOR	4	11/02	19	11/16/02	11204BR	303437	911440	D W	0.56
East Baton Rouge	044	KCS RAILROAD	- 8739Z		BABIN, WHITNEY	300	PUBLIC SUPPLY	2	04/03	65	04/21/03	00000000	303446	911404	D W	0.62
East Baton Rouge	044	NPC SERVICES	- 8849Z	SBP-088	LEE, PETER B.	95	PIEZOMETER	2	08/04	36.8	09/08/04	00000000	303535	911353	D W	0.87
East Baton Rouge	083	NPC SERVICES	- 8850Z	SBP-089	LEE, PETER B.	95	PIEZOMETER	2	06/04	45	09/09/04	00000000	303541	911441	D W	0.68
East Baton	081	NPC	-	SBP-096	LEE, PETER B.	105	PIEZOMETER	2	07/04	70	09/09/04	00000000	303533	911501	D W	0.68

Rouge		SERVICES	8851Z															

Available Information:
E - Geophysical Log
D - Driller's Log
M - Mechanical Analysis
Q - Quality of Water
P - Pumping Test
W - Water Level
B - Bacteriological Analysis

[Parish Codes] [Well Use Sub-Use Codes] [Explanation of Terms]

RESPONSE
ATTACHMENT A31

APPENDIX 31

LABELS

HAZARDOUS WASTE

FEDERAL LAW PROHIBITS IMPROPER DISPOSAL

If found, contact the nearest police or public safety authority or the U.S. Environmental Protection Agency.

ACCUMULATION START DATE _____ E.P.A. WASTE NO. _____

D.O.T. PROPER SHIPPING NAME _____

_____ U.N. OR N.A. NO. _____

GENERATOR NAME _____

ADDRESS _____

CITY _____ STATE _____

E.P.A. I.D. NO. _____ MANIFEST DOCUMENT NO. _____

J.J. KELLER & ASSOCIATES, INC. • NEENAH, WISCONSIN 54957-0368 NO. 28-HML R (Rev. 11/94)

HAZARDOUS WASTE

FEDERAL LAW PROHIBITS IMPROPER DISPOSAL

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CITY _____ STATE _____

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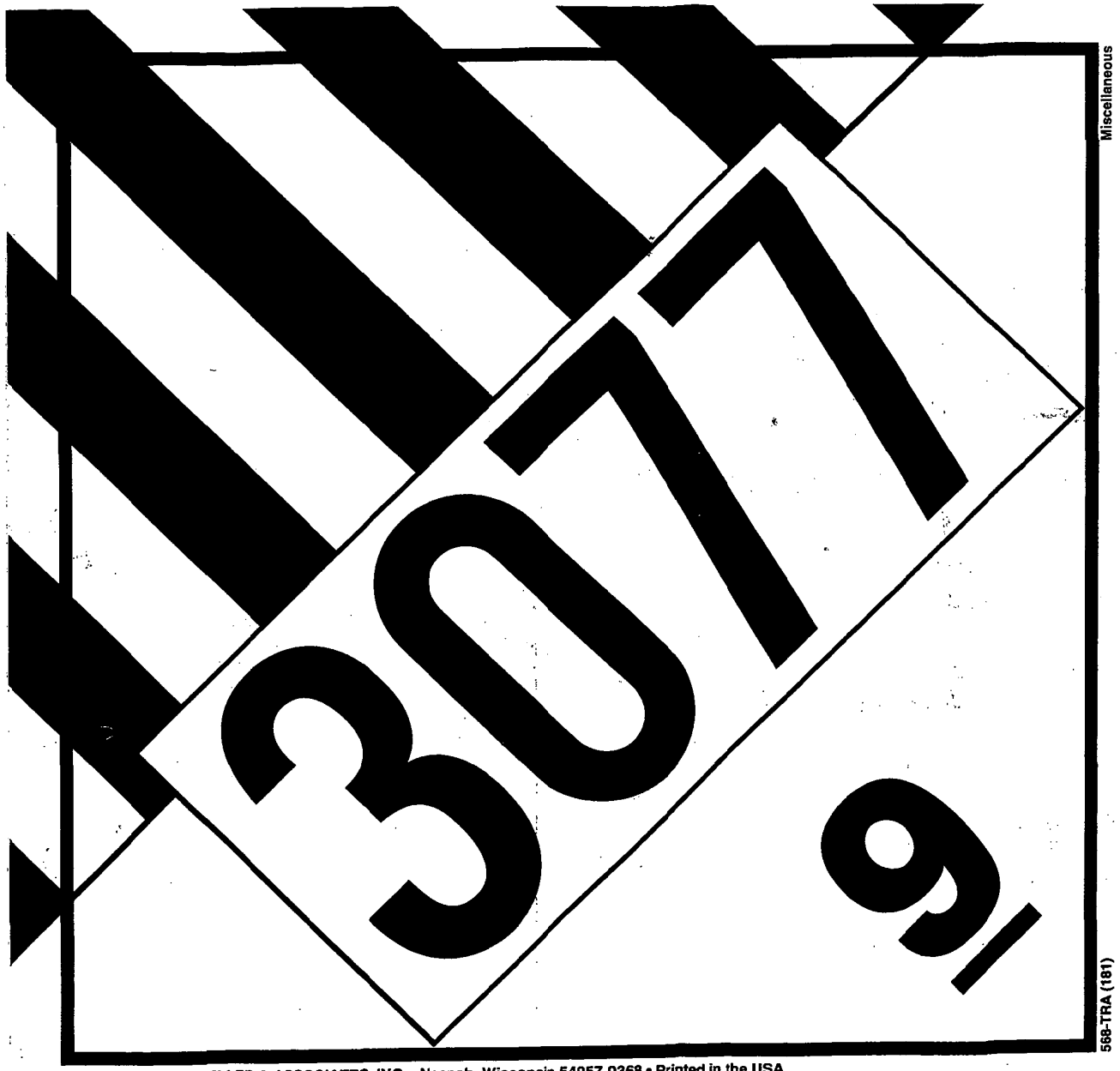
HAZARDOUS WASTE

FEDERAL LAW PROHIBITS IMPROPER DISPOSAL



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Miscellaneous

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