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CLEAN HARBORS BATON ROUGE, LLC
BATON ROUGE, LOUISIANA

Post Closure Permit
Renewal Application
Landfill 717

Volume 1 of 5
Application
Appendices A-E

Prepared for:

Clean Harbors Baton Rouge, LLC
13351 Scenic Highway
Baton Rouge, Louisiana 70807

Agency Interest #1516
LAD 010395127-PC-3

RECEIVED
MAR 24 2008
LDEQ

March 2008

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MAIN FILE

original to IOHW
copy to HW/G2/Booker
PAAR

March 24, 2008

Mr. Bijan Sharafkhani, P.E., Administrator
Louisiana Department of Environmental Quality
Waste Permits Division
602 North Fifth Street
Baton Rouge, LA 70802

Hand Delivered

Re: Post Closure Permit Renewal Application: Landfill Cell 717
Clean Harbors Baton Rouge, LLC
LAD 010 395 127-PC-3
AI# 1516/PER# 20010003

Attention: Ms. Karla Vidrine

Dear Mr. Sharafkhani,

Clean Harbors Baton Rouge, LLC respectfully submits five (5) bound copies of the Post Closure Permit Renewal Application for Landfill Cell 717.

Also as required, the facility will provide a copy of the attached document in the Scotlandville Library in East Baton Rouge Parish.

Should you have any questions or comments relating to this submittal, please do not hesitate to contact me at 225-778-3596.

Sincerely,

John C. Arbuthnot
Sr. Remediation Manager
On Behalf Of
Clean Harbors Baton Rouge, LLC

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cc: file

CLEAN HARBORS BATON ROUGE, LLC

POST CLOSURE PERMIT RENEWAL APPLICATION
LANDFILL CELL 717

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Introduction

Clean Harbors Baton Rouge, LLC respectfully submits this request for renewal of its RCRA Hazardous Waste Post-Closure Permits for one of its closed landfill cells (Cell 717). The permit number for which renewal is requested is LAD 0101395127 PC-3. Clean Harbors Baton Rouge, LLC hereinafter may be referred to as "CH(BR)" or "the Facility" throughout this document and its associated attachments. This application includes the Part II (Part B) Application organized in the current format established in the Louisiana Administrative Code (LAC).

Any questions concerning this application may be directed to one of the following persons:

- Mr. John Arbuthnot
  Sr. Remediation Manager
  Clean Harbors Environmental Services, Inc.
  13351 Scenic Highway
  Baton Rouge, LA 70807
  (225) 778-3596

- Mr. Tamelia Morton
  Sr. Compliance Manager
  Clean Harbors Environmental Services, Inc.
  13351 Scenic Highway
  Baton Rouge, LA 70807
  (225) 778-3570

This application was developed based on technical input from Clean Harbors Baton Rouge, LLC, and Clean Harbors corporate support personnel. EcoScience Resource Group, L.L.C. coordinated the assembly of the entire document.

Clean Harbors Baton Rouge, LLC is a wholly-owned subsidiary of Clean Harbors Environmental Services, Inc., the nation's most experienced hazardous waste management company.

Since this closed unit was originally permitted for Post-Closure in 1998, the facility has safely and efficiently conducted the appropriate post-closure measures including leachate collection and management, groundwater monitoring, and general maintenance and inspections of this landfill unit. No significant changes are contemplated in this application, and the facility expects to continue to manage this closed unit in a manner similar to the previous permit term, consistent with applicable State and Federal Hazardous Waste Management Regulations.

Supplemental Information

Chapter 1-General Provisions and Definitions

Clean Harbors Baton Rouge, LLC acknowledges the general provisions and definitions in this chapter.

Chapter 3-General Conditions for Treatment, Storage, and Disposal Facility Permits

Clean Harbors Baton Rouge, LLC acknowledges the general conditions for Treatment, Storage, and Disposal Facility Permits and will comply with the requirements of this section, to the extent that they become applicable.

Chapter 4-Requirements for Commercial Treatment, Storage, and Disposal Facility Permits

Clean Harbors Baton Rouge, LLC acknowledges this chapter and will comply with it, to the extent that it applies.

Chapters 5 -Permit Application Contents

Clean Harbors Baton Rouge, LLC provided responses to this chapter in Volume I of this Post-Closure Permit Renewal Application.

Chapter 7-Administrative Procedures for Treatment, Storage, and Disposal Facility Permits

Clean Harbors Baton Rouge, LLC acknowledges the administrative procedures for Treatment, Storage, and Disposal Facility Permits.

Chapter 11-Generators

The waste management unit covered by this Post-Closure Permit is closed. Periodically, hazardous wastes may be generated at the facility as a part of the Post-Closure activities. When applicable, Clean Harbors Baton Rouge, LLC will comply with all applicable portions of this chapter.

Chapter 13-Transporters

This chapter is not applicable since this application is a Post-Closure Permit Renewal Application.

Chapter 15-Treatment, Storage, and Disposal Facilities

Applicable sections of this chapter have been addressed in the responses to Chapter 5 in Volume I of this application.

Chapter 17-Air Emission Standards

This chapter is not applicable since this application is for a Post-Closure Permit Renewal Application.

Chapter 18-Containment Buildings

This chapter is not applicable since there are no containment buildings that are part of this Post-Closure Permit Renewal Application.

Chapter 19-Tanks

This chapter is not applicable since there are no tanks that are a part of this Post-Closure Permit Renewal Application.

Chapter 20-Integration with Maximum Achievable Control Technology (MACT) Standards

This chapter is not applicable since there are no incinerators, cement kilns, or other units being permitted under this Post-Closure Permit Renewal Application.

Chapter 21-Containers

This chapter is not applicable to this Post-Closure Permit Renewal Application since no containers will be stored or otherwise managed under this permit.

Chapter 22-Prohibitions on Land Disposal

This chapter does not apply to this Post-Closure Permit Renewal Application since no land disposal activities will take place under this permit.

Chapter 23-Waste Piles

This chapter does not apply to this Post-Closure Permit Renewal Application since no waste piles will be operated under this permit.

Chapter 24-Hazardous Waste Munitions and Explosives Storage

This chapter does not apply to this Post-Closure Permit Renewal Application since no hazardous waste munitions and explosives storage will take place under this permit.

Chapter 25-Landfills

Clean Harbors Baton Rouge, LLC provided responses to this chapter in Volume I of this Post-Closure Permit Renewal Application.

Chapter 26-Corrective Action Management Units and Special Provisions for Cleanup

This chapter does not apply to this Post-Closure Permit Renewal Application since this permit does not cover any Corrective Action Management Units.

Chapter 27-Land Treatment

This chapter does not apply to this Post-Closure Permit Renewal Application since no Land Treatment activities will take place under this permit.

Chapter 28-Drip Pads

This chapter does not apply to this Post-Closure Permit Renewal Application since no drip pads are utilized under this permit.

Chapter 29-Surface Impoundments

This chapter does not apply to this Post-Closure Permit Renewal Application since no surface impoundments are utilized under this permit.

Chapter 30-Hazardous Waste Burned in Boilers and Industrial Furnaces

This chapter does not apply to this Post-Closure Permit Renewal Application since no hazardous waste is burned in boilers and industrial furnaces under this permit.

Chapter 31-Incinerators

This chapter does not apply to this Post-Closure Permit Renewal Application since no incinerators are operated under this permit.

Chapter 32-Miscellaneous Units

This chapter does not apply to this Post-Closure Permit Renewal Application since no hazardous waste is managed in miscellaneous units under this permit.

Chapter 33-Ground Water Protection

Clean Harbors Baton Rouge, LLC provided responses to this chapter in Volume I of this Post-Closure Permit Renewal Application.

Chapter 35-Closure and Post-Closure

Clean Harbors Baton Rouge, LLC provided responses to this chapter in Volume I of this Post-Closure Permit Renewal Application.

Chapter 37-Financial Requirements

Clean Harbors Baton Rouge, LLC provided responses to this chapter in Volume I of this Post-Closure Permit Renewal Application.

Chapter 38-Universal Wastes

This chapter does not apply to this Post-Closure Permit Renewal Application since no universal wastes will be managed under this permit.

Chapter 40-Used Oil

This chapter does not apply to this Post-Closure Permit Renewal Application since no used oil will be managed under this permit.

Chapter 41-Recyclable Materials

This chapter does not apply to this Post-Closure Permit Renewal Application since no recyclable materials will be managed under this permit.

Chapter-42 Conditional Exemption for Low-Level Mixed Waste Storage and Disposal

This chapter does not apply to this Post-Closure Permit Renewal Application since no low-level mixed waste storage and disposal will take place under this permit.

Chapters 43 Interim Status

These chapters do not apply to this Post-Closure Permit Renewal Application since the units subject to this renewal application do not operate under interim status.

Chapter 49-List of Hazardous Wastes

Clean Harbors Baton Rouge, LLC acknowledges this chapter and its potential applicability to the identification of hazardous wastes that may be generated during the post-closure permit period. The proper waste codes will be applied to any wastes generated under this permit.

Chapter 51-Fee Schedules

Clean Harbors Baton Rouge, LLC acknowledges the fee schedules identified in this chapter.

Chapter 53-Military Munitions

This chapter does not apply to this Post-Closure Permit Renewal Application since no activities related to military munitions take place under this permit.

Chapter 5

Permit Application Contents

Subchapter D. Part II General Permit Information Requirements

516. Information Requirements for Solid Waste Management Units

A. The following information is required for each solid waste management unit at a facility seeking a permit:

The Clean Harbors Baton Rouge, LLC facility (the Facility) is seeking to renew the Post-Closure Permit LAD 010395127-PC-3 for Landfill Cell 717, respectively located at 13351 Scenic Highway in East Baton Rouge Parish, Louisiana.

1. *the location of the unit on the topographic map required under LAC 33:V.517.B;*
2. *designation of type of unit;*
3. *general dimensions and structural description (supply any available drawings);*
4. *when the unit was operated; and*
5. *specification of all waste codes for all hazardous wastes that have been managed at the unit;*
6. *details of all ancillary equipment including tanks storing hazardous waste in less than 90-day service and pipes carrying hazardous waste to the injection well(s) must meet the requirements of LAC 33:V.Chapter 19. A certification by an independent Louisiana Registered Professional Engineer must be provided attesting to the adequacy of pipes, valves, and pumps to handle hazardous waste under pressure and to the adequacy of secondary containment provided to meet the requirements of LAC 33:V.Subpart 1.*

The location of Landfill Cell 717 is shown on Drawing 105 in Appendix C and on the maps shown in the Post Closure Care and Monitoring Plan and Construction Quality Assurance Report for Installation of Clay Cap in Appendix N. The general dimensions, design details are also provided in Appendix N. Landfill Cell 717 is constructed with a recompacted clay bottom liner and cap.

Landfill Cell 717 has a surface area of approximately 22.2 acres and a capacity of approximately 1,900,000 cubic yards (1,178 acre-feet). This landfill has a total of four (4) subcells equipped with twenty-five (25) leachate collection risers and three (3) leachate detection and collection risers. This unit last received waste in November 1987. Closure of this unit began in October 1988 in accordance with a LDEQ approved closure plan (Closure Permit LAD 010395127-CP4 dated October 27, 1988) and was completed with the submittal of the closure certification and deed restriction to the East Baton Rouge City Parish and the

LDEQ on November 14 and 16, 1995, respectively. The closure of this unit was approved by the LDEQ on December 18, 1995. On August 19, 1998, the LDEQ issued Post-Closure Permit LAD 010395127-PC-3 (effective date of September 19, 1998) for Landfill Cell 717. This post-closure permit was for a 10-year period (expires September 19, 2008).

This application is for the renewal of Landfill Cell 717 Post-Closure Permit LAD 010395127-PC-3 for another 10-year post-closure care period.

A list of all waste codes for all hazardous wastes managed in this landfill unit is provided in Appendix E.

There is no ancillary equipment including tanks storing hazardous waste or pipes carrying hazardous waste to an injection well proposed as part of the post-closure permit for this landfill cell. There are no injection wells nor are any planned at the CH(BR) facility as part of this post-closure permit renewal application.

B. The owner or operator of any facility containing one or more solid waste management units must submit all available information pertaining to any known release of hazardous wastes or hazardous constituents from such unit or units.

There have been no known releases of hazardous wastes or hazardous constituents from Landfill Cell 717. Information on known releases at the CH(BR) facility that are unrelated to these units has been previously provided in reports and permit applications to the LDEQ.

C. The owner/operator must conduct and provide the results of sampling and analysis of groundwater, land surface and/or subsurface strata, surface water, and/or air, which may include the installation of wells, if the administrative authority ascertains it is necessary to complete a RCRA Facility Assessment that will determine whether a more complete investigation is necessary. If the owner/operator has an EPA approved RCRA Facility Investigation, the results of this investigation may be provided to the administrative authority.

The Facility has been conducting groundwater monitoring and reporting the results to the LDEQ and EPA since the early 1980's. In addition, the Facility has conducted numerous investigations of the subsurface as required by the LHWRR, permits, and consent orders. As required by the May 1989 EPA Administrative Order On Consent pursuant to Section 3008(h) of the Solid Waste Disposal Act, and in accordance with Section F of the Facility's HSWA (Section VII) Permit LAD 010395127-P, a RCRA Facility Investigation (RFI, 1992) and Corrective Measures Study (CMS, 1995/1998/2003) of the site have been completed and the results submitted to LDEQ and EPA. The most recent groundwater results are

summarized in the 2007 Annual Groundwater Monitoring Report provided in Appendix F.

517. Part II Information Requirements (the Formal Permit Application)

The formal permit application information requirements presented in this Section reflect the standards promulgated in LAC 33:V.Subpart 1. These information requirements are necessary in order to determine compliance with all standards. Responses and exhibits shall be numbered sequentially according to the technical standards. The permit application must describe how the facility will comply with each of the sections of LAC 33:V.Chapters 15–37 and 41. Information required in the formal permit application shall be submitted to the administrative authority and signed in accordance with requirements in LAC 33:V.509. The description must include appropriate design information (calculations, drawings, specifications, data, etc.) and administrative details (plans, flow charts, decision trees, manpower projections, operating instructions, etc.) to permit the administrative authority to determine the adequacy of the hazardous waste permit application. Certain technical data, such as design drawings, specifications, and engineering studies, shall be certified by a Louisiana registered professional engineer. If a section does not apply, the permit application must state it does not apply and why it does not apply. This information is to be submitted using the same numbering system and in the same order used in these regulations:

This post-closure permit renewal application for Landfill Cell 717 has been prepared in accordance with the above instructions.

A. a general description of the facility including hours of operation/day and days/week;

Clean Harbors Baton Rouge, LLC is located on approximately 642 acres two miles north of I-110 on Highway 61 (Scenic Highway) in Baton Rouge, Louisiana. The permitted area includes approximately 192 acres. In addition to this Post-Closure Permit for which this application seeks renewal, the facility has a RCRA Part B Permit for the operating portions of the facility, a consolidated Air Permit, an NPDES Discharge Permit, as well as a 10-Day Transfer Facility Authorization, and two other Post-Closure Permits for Landfill Cells 901 and 902.. The site property averages approximately 75 feet above mean sea level. The surrounding property is a combination of rural, agricultural, residential areas, industrial plants, and forested swamps. Waste management areas at the facility include storage tanks, container storage units, waste treatment tanks, a secure landfill, and numerous closed units. Various hazardous wastes are processed at the facility mostly originating from hazardous waste generators in the South-central United States. The facility typically

operates Monday through Friday from 7:00 a.m. until 5:00 p.m.; however, the hours of operation may vary as business needs dictate.

B. a topographic map or maps showing a distance of 1,000 feet around the facility at a scale of 2.5 centimeters (1 inch) equal to not more than 61.0 meters (200 feet); contours must be shown on the map. The contour interval must be sufficient to clearly show the pattern of surface water flow in the vicinity of and from each operational unit of the facility. The map or maps shall clearly show the following:

Drawing 102 at a scale of 1" = 500' in Appendix C is a topographic map showing a distance of 1,000 feet around the facility including closed Landfill Cell 717. This scale was due to the large size of the coverage area.

1. map scale and date;

This information is included on the attached map, as required.

2. orientation of the map (north arrow);

A north arrow is shown on the topographic map.

3. 100-year floodplain area;

[Comment: Owners and operators of all facilities shall provide an identification of whether the facility is located within a 100-year floodplain and a flood hazard map (Corps of Engineers or Department of Housing and Urban development). This identification must indicate the source of data for such determination and include a copy of the relevant Federal Insurance Administration (FIA) flood map, if used. Where maps for the National Flood Insurance Program produced by FIA of the Federal Emergency Management Agency are available, they will normally be determinative of whether a facility is located within or outside of the 100-year floodplain. However, where the FIA map excludes an area (usually areas of the floodplain less than 200 feet in width), these areas must be considered and a determination made as to whether they are in the 100-year floodplain. Where FIA maps are not available for a proposed facility location, the owner or operator must use equivalent mapping techniques to determine if the facility is within the 100-year floodplain, and if so located, what the 100-year flood elevation would be.]

Drawing 106 in Appendix C is topographic map using the Scotlandville 7.5 minute quadrangle sheet as the background with an overlay of the floodplain designation

for this area taken from the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM) Community Panel Number 220058 0060 D Revised May 17, 1993. These are the latest available maps for this area. The topography shown represents 1963 data. No revisions to the topographic features in the vicinity of the Facility have been made by the USGS since that time. The revisions have been pictorial, only. The floodplain designation was scanned from the referenced FIRM and superimposed onto the base map. The floodplain designations do not match well for some of the small drainage features along the Mississippi River bluff on the west side of the map. The floodplain designation in this area reflects potential backwater flooding from the Mississippi River. The U.S. Army Corps of Engineers (USACE), in the letter dated June 8, 1983, states that the design flood for the segment of the Mississippi River adjacent to the property, based on the worst conceivable flooding conditions, has a return interval substantially greater than once in 100 years and a flood elevation in the vicinity of CH(BR) of 51 feet NGVD. As indicated on this map, the Landfill Cell 717 area is not located within the 100-year floodplain. This map does show a small drainage feature based on 1963 topographical data extending east into the permitted Facility near the S&E Building. The elevation of this area was raised in the early 1980's to elevations above 75 feet NGVD (78 feet plant datum) as shown on Drawing 104 in Appendix C. These contours are based on aerial photography taken in March 1990. As shown on Drawing 106, elevation 75 feet is above of the potential floodplain. Therefore, no part of the permitted Facility including the Landfill Cell 717 area is located in a flood zone. Sections T.2.a-c are not applicable.

This drawing has a scale of 1"=500'. This is the best scale that the information can be reasonably shown on a D-size drawing due to the size of the coverage area.

4. *surface waters including intermittent streams and surface flow through the site and a map of the potentiometric surface for aquifers within 100 feet of lowest elevation of disposal cells, or other facilities containing hazardous waste, from 1,000 feet upstream to 1,000 feet downstream, where practicable. Included should be a general area map and cross sections indicating the extent of freshwater sands, and the degree of isolation from waste sources by confining layers of clay;*

The surface waters including intermittent streams are shown on Drawing 104 in Appendix C. The Facility topographic map illustrates the surface water flow throughout the site. A dike that prevents run-on and runoff of surface waters surrounds the perimeter of the permitted site, including Landfill Cell 717. All surface waters onsite are directed to a rainwater basin and/or drainage ditch. All stormwaters are discharged via of a NPDES permitted outfall 002.

The potentiometric surface for the four (4) shallow permeable units monitored at the Facility within 100 feet of the lowest elevation of Landfill Cell 717 are shown

on Figures 8 through 15 in the 2007 Annual Groundwater Monitoring Report in Appendix F.

Cross Sections indicating the extent of freshwater sands and the degree of isolation from waste sources by confining layers of clay beneath the Facility and the general area are shown on the figures in Appendix P.

5. *surrounding land uses (residential, commercial, agricultural, recreational, public) such as schools, day care centers, hospitals, nursing homes, prisons, libraries, etc.;*

   [Comment: A map or aerial photograph showing surrounding land use for the area within two miles of the site is required.]

A map and aerial photograph showing the surrounding land use for the area within a two-mile radius of the Facility is provided on Drawings 101 in Appendix C. The scale of this drawing is 1" = 1200'. This is the best scale that the information can be reasonably shown on a D-size drawing due to the size of the coverage area. As shown on these drawings, the area to the north of the Facility is generally agricultural, residential and industrial; to the east generally residential with some industrial; to the south industrial with some residential; and to the west forested swamps, Mississippi River with some industrial. There are several schools, parks and detention center located within 2 miles of the facility to the south, east and northeast. These include Alsen Community Center, BREC Park in Alsen, Louisiana Correctional Institute (Judson), Elementary Schools in Alsen and to the south towards Scotlandville.

6. *legal boundaries of the TSD facility site;*

The perimeter of the permitted site and portions of the Facility owned properties including buffer zones are shown on Drawings 100 through 103 in Appendix C. A legal description of portions of the Facility owned surrounding property is provided in Appendix O.

7. *access control (fences, gates);*

As shown on Drawing 105 in Appendix C, access to the RCRA permitted site is controlled by a fence and locked gates. The gates are kept locked except when in use. The two main entrance gates are manned with site security 24 hours per day, 7 days per week.

8. injection and withdrawal wells both on site and off site;

[Comment: A map of all known wells, operating or abandoned, on the site and within two miles of the site perimeter as required in LAC 33:V.515.A.15, including the depth of wells, amount of pumpage, water level depth (annual maximum and minimum), and water analysis from the water well nearest the disposal site is also required.]

All known wells, operating and abandoned, within a two-mile radius of the Facility are shown on Drawing 103 in Appendix C. This information was compiled from research of the Louisiana Department of Transportation and Development Public Works records. Information regarding well depth, etc. for these offsite wells are also provided on Table 1 in Appendix C.

Figures 2 through 7 in Appendix C and in the 2007 Annual Groundwater Monitoring Report in Appendix F show the location of all wells on the Facility property. The scale of Figures 2 through 7 in Appendix C is 1" = 300'. This is the best scale that the information can be reasonably shown on a D-size drawing due to the size of the coverage area. Tables 2 and 9, Figures 8 through 15 and Appendix E of the 2007 Annual Groundwater Monitoring Report in Appendix F provide details on well depth, pumpage and water level information. Also included in these reports is a summary of the water analysis from the onsite process wells.

9. the proposed location of groundwater monitoring wells as required under LAC 33:V.3315.A and B;

The Facility has an existing groundwater monitoring system for the entire site including the areas of Landfill Cell 717. The locations of all wells including monitoring wells are shown on Figures 2 through 7 in the 2007 Annual Groundwater Monitoring Report in Appendix F.

10. the proposed "point of compliance" as defined under LAC 33:V.3311;

As defined under LAC 33:V.3311, the RCRA Part B Permit LAD 010395127-P and Post–Closure Permits LAD 010395127-PC-1, PC-2 & PC-3, the "point of compliance" is defined by an imaginary line passing through the wells shown on Figures 2 and 2A in Appendix C and Figure 2 in the 2007 Annual Groundwater Monitoring Report in Appendix F.

11. buildings, treatment, storage, or disposal operations; or other structures (recreation areas, runoff control systems, access and internal roads, storm

sanitary, and process sewerage systems, loading and unloading areas, fire control facilities, utilities, security facilities, etc.);

The buildings, treatment, storage, structures, roadways, loading and unloading areas, etc. at the Facility including Landfill Cell 717 are shown on Drawing 105 in Appendix C.

12. barriers for drainage or flood control;

As shown on Drawing 104 (topographic map) in Appendix C, the RCRA permitted site has a perimeter dike to prevent runon and runoff from the Facility. Landfill Cell 717 was constructed above the natural ground surface. This landfill is equipped with surface drainage ditches and drop structures to convey stormwater from the landfill cap surface to the Facility stormwater system, which consists of drainage ditches, basins and a permitted NPDES discharge point (002).

13. location of operational units within the TSD facility site, where hazardous waste is (or will be) treated, stored, or disposed of (including equipment cleanup areas). (For large TSD facilities, the administrative authority may allow the use of other scales on a case-by-case basis); and

The locations of operational units including Landfill Cell 717 are shown on Drawings 104 and 105 in Appendix C.

14. natural features affecting off-site drainage patterns, transportation, utilities, and location of effluent discharges;

The natural features affecting off-site drainage patterns, transportation, utilities and location of effluent discharges are shown on Drawings 103 and 104 in Appendix C.

C. site layout and facility design when phased construction is planned: the plans must indicate each phase and an accompanying schedule of construction;

This is a post-closure permit renewal application for Landfill Cell 717. No new phased construction is planned. Therefore this regulation is not applicable to this renewal application.

D. chemical and physical analyses of the hazardous wastes and the hazardous debris to be handled at the facility. At a minimum, these analyses shall contain all the information that must be known to treat, store, or dispose of the wastes properly;

This is a post-closure permit renewal application for Landfill Cell 717. This unit has been closed, is no longer receiving waste, and is currently undergoing post-closure care of Post-Closure Permit LAD 010395127-PC-3. The leachate generated from this landfill cell is pumped to Leachate Tank TK-6039 for storage prior to treatment and/or disposal. The leachate is characterized annually in accordance with the facilities waste analysis plan.

E. a copy of the waste analysis plan required by LAC 33:V.1519.B;

A copy of the facility's waste analysis plan as required by LAC 33:V.1519.B is provided in Appendix U of this post-closure permit renewal application.

F. a description of the security procedures (including entry control, hours manned, lighting, monitoring, and other procedures to prevent unauthorized entry) and equipment required by LAC 33:V.1507 or a justification demonstrating the reasons for requesting a waiver of this requirement;

The entire Facility is surrounded by a six-foot high chain link fence with locking gates. The fence is topped by multiple strands of barbed wire and is constructed such that it will preclude all but willful forced entry.

Facility access is controlled by uniformed guards who are on duty around the clock every day of the year, or the gate is securely locked. The guards are stationed in a guardhouse adjacent to the two active entrances located on the east side of the facility. The main gate entrance allows access to U.S. Route 61 and the other gate from the Barge Terminal Road. This latter gate typically remains locked at all times; however, it may be opened electronically by the security guard if access is needed via this route. Both gates are within easy view of the security guard post. There are additional gates along the Facility perimeter. These gates remain padlocked except when access is needed periodically by facility personnel.

Lighting is provided throughout the Facility and, in particular, at the entrances and along the perimeter fence. Perimeter lighting consists of 23-foot tall poles at approximately 600-foot intervals with sodium vapor or mercury lights (150-watt minimum). Vehicle barriers are equipped with reflectors.

All vehicles entering or leaving the Facility are subject to search. Logs are maintained at the gate to document all arrivals to and departures from the Facility. Visitors are detained at the gate until such time that the guard obtains approval for the visit by the appropriate Clean Harbors Baton Rouge employee. All visitors are required to wear visitor badges while on-site, and all visitors are escorted around the Facility by the appropriate site personnel.

Waste-hauling vehicles are not allowed onto the property without prior scheduling unless special permission or waiver of this requirement is obtained by the security guard from management upon receipt of the vehicle.

G. a copy of the general inspection schedule required by LAC 33:V.1509.B. Include, where applicable, as part of the inspection schedule, specific requirements in LAC 33:V.1709, 1719, 1721, 1731, 1755-1759, 1763, 1907.I, 1911, 2109, 2309, 2507, 2703.A-G, 2907, 3119.B and C, and 3205;

The inspection schedule for the closed portions of the Facility, which include Landfill Cell 717 is included as Appendix H.

H. a justification of any request for a waiver(s) of the preparedness and prevention requirements of LAC 33:V.1511;

No waiver of this requirement is being requested. The preparedness and prevention procedures are presented in the Contingency Plan (Appendix G).

I. a copy of the contingency plan required byLAC 33:V.1513;

[NOTE: Include, where applicable, as part of the contingency plan, specific requirements in LAC 33:V.2909];

A copy of the Contingency Plan is contained in Attachment G.

J. a description of procedures, structures, or equipment used at the facility to:

Landfill Cell 717 has been closed and is in its tenth year of post-closure care under Post-Closure Permit LAD 010395127-PC-3. The cell has a clay cap and vegetative cover system that is sloped to drain to perimeter ditches and drop structures that convey stormwater into the Facility stormwater drainage system. The cell is also equipped with a leachate collection system consisting of well risers, submersible pumps and piping that remove and convey leachate to a collection storage Tank

TK-6039. This tank is permitted as a hazardous waste storage tank under the Facility's Operating Permit LAD 010395127-P.

1. *prevent hazards in unloading operations (for example, ramps, special forklifts);*

Since Landfill Cell 717 is closed, there are no waste loading or unloading operations proposed or planned as part of this post-closure permit renewal application.

2. *prevent runoff from hazardous waste handling areas to other areas of the facility or environment, or to prevent flooding (for example, berms, dikes, trenches);*

There are no exposed wastes or waste handling areas located within the closed Landfill Cell 717 area. Above ground piping on concrete sleepers and slab are used to convey leachate removed from the Cell 717 to Leachate Collection Tank TK-6039. The elevation of the cap system is 30 to 40 feet above the surrounding natural grade and is not subject to flooding. The cap is sloped to perimeter ditches and drop structures, which drain into the Facility's drainage system and rainwater basins.

3. *monitoring leachate control;*

The inspection and monitoring of the leachate collection system is described in the Post-Closure Inspection Plan in Appendix H. The leachate collection system is inspected weekly for proper operation and maintenance.

4. *prevent contamination of water supplies;*

Landfill Cell 717 is equipped with a leachate collection system, leak detection system, clay cap, and underlying clay layer to protect the groundwater water. The Facility also has groundwater monitoring and remediation system for the shallow groundwater (upper 150 feet). The source of groundwater for the surrounding area is obtained from aquifers located in excess of 200 feet below the ground surface. There are several layers of clay separating these aquifers from the near surface permeable zones.

5. *monitor water and air pollution affecting area outside site;*

The Facility including Landfill Cell 717 area has a groundwater monitoring system and perimeter air monitoring system that is used to monitor the groundwater and air at the site. The groundwater monitoring system is described in detail in the 2007 Annual Groundwater Report in Appendix F and the Revised Groundwater Sampling and Analysis Plan in Appendix T.

6. *mitigate effects of equipment failure, power outages, inclement weather, or other abnormal conditions;*

Effects from equipment failure, power outages, inclement weather or other abnormal conditions are minimal since this landfill cell is closed. The Facility works closely with the power company to restore power to the leachate collection system as soon as possible.

7. *prevent undue exposure of personnel to hazardous waste (for example, protective clothing);*

The waste in Landfill Cell 717 has been capped with a minimum of 3 feet of recompacted clay and 1 foot of cover soil.

8. *prevent accidental ignition or reaction of ignitable, reactive, or incompatible wastes as required to demonstrate compliance with LAC 33:V.1517; and*

No accidental ignition or reaction of ignitable, reactive or incompatible wastes is anticipated since Landfill Cell 717 has been closed. The leachate removed from these cells also does not have these characteristics.

9. *prevent nonpermitted releases to the atmosphere;*

Since Landfill Cell 717 has been closed, non-permitted releases to the atmosphere are not anticipated due to the clay cap and vegetative cover system. The Facility will continue to inspect, monitor, and maintain this cover system during the post-closure care period.

K. *traffic pattern, estimated volume (number, types of vehicles) and control (for example, show turns across traffic lanes, and stacking lanes, if appropriate; describe access road surfacing and load bearing capacity; show traffic control signals);*

Traffic patterns and volume on the closed Landfill Cell 717 access roads will be limited to light pickups and mowing equipment during regular inspections, monitoring and maintenance of the cover and leachate collections systems. Occasional heavier equipment such as dozers, excavators, and dump trucks maybe required during repairs of any erosion or settlement of the clay cap. The access roads for Landfill Cell 717 were used during closure and are adequate to support the anticipated traffic loading during the post-closure care period.

L. an outline of both the introductory and continuing training programs by owners or operators to prepare persons to operate or maintain the TSD facility in a safe manner as required to demonstrate compliance with LAC 33:V.1515. A list of general qualifications of key operating positions and a brief description of how training will be designed to meet actual job tasks in accordance with these requirements;

The facility including closed Landfill Cell 717 training plan is included as Appendix I. Position descriptions and qualifications of key operating positions for the facility are included in each employee's training file. The training plan outlines the programs prepared to train the personnel to operate and maintain the facility and Landfill Cell 717 in a safe manner.

M. a copy of the closure plan and, where applicable, the post-closure plan required by LAC 33:V.3511, 3523, and 1915. Include, where applicable, as part of the plans, specific requirements in LAC 33:V.1915, 2117, 2315, 2521, 2719, 2911, 3121, 3203 and 3207;

Landfill Cell 717 has been certified closed and is currently undergoing post-closure care in accordance with Post-Closure Permits LAD 010395127-PC-3. Copies of the units' closure and post-closure plans have been submitted previously. Copies of the Facility's closure and post-closure plan have also been provided previously as part of the RCRA Part B Permitting. The existing Post-Closure Permit outlines the requirements for post-closure care. A summary of the post-closure plan requirements is attached as Appendix B.

N. for hazardous waste disposal units that have been closed, documentation that notices required in LAC 33:V.3517 have been filed;

As required by LAC 33:V.3517, the deed restriction and closure certification notifications were submitted to the East Baton Rouge City Parish and the LDEQ on November 14, 1995 and November 16, 1995 (Addendum on December 8, 1995),

respectively for Landfill Cell 717. The LDEQ approved the closure of this unit in letter dated December 18, 1995. Copies of the notifications and approval letter are provided in Appendix L.

O. the most recent closure cost estimate for the facility prepared in accordance with LAC 33:V.3705 and a copy of the documentation required to demonstrate financial assurance under LAC 33:V.3707. For a new facility, a copy of the required documentation may be submitted 60 days prior to the initial receipt of hazardous wastes, if that is later than the submission of the Part II;

Landfill Cell 717 has been closed and is in its tenth year of post-closure monitoring under Post-Closure Permit LAD 010395127-PC-3. The Facility is no longer required to have financial assurance for closure of this unit. The most recent cost estimate for post-closure care and the current financial for the facility including Landfill Cell 717 is provided in Appendix D of this post-closure permit renewal application.

P. where applicable, the most recent post-closure cost estimate for the facility prepared in accordance with LAC 33:V.3709 plus a copy of the documentation required to demonstrate financial assurance under LAC 33:V.3711. For a new facility, a copy of the required documentation may be submitted 60 days prior to the initial receipt of hazardous wastes, if that is later than the submission of the Part II;

In accordance with LAC 33:V.3709, the most recent post-closure cost estimate for the Facility, which includes Landfill Cell 717 has been provided to the agency in previous RCRA Part B Permit submittals. A copy of the Post-Closure Plan is provided in Appendix B. Also provided in Appendix D is a copy of the latest (July 2007) financial assurance documents in accordance with LAC 33:V.3711.

Q. where applicable, a copy of the insurance policy or other documentation which comprises compliance with the requirements of LAC 33:V.Chapter 37. For a new facility, documentation showing the amount of insurance meeting the specification of LAC 33:V.Chapter 37 that the owner or operator plans to have in effect before initial receipt of hazardous waste for treatment, storage, or disposal;

The financial assurance documentation, including a copy of the certificate of liability insurance is included in Appendix D.

R. where appropriate, proof of coverage by a state financial mechanism in compliance with LAC 33:V.Chapter 37;

Certificate of Insurance (Policy No. ENC 5254310-02 effective date September 6, 2006, Appendix D) currently provides the financial assurance mechanism for the Facility's Post-Closure Cost Estimates including Landfill Cell 717. The latest annual update for inflation was provided to the LDEQ on July 30, 2007 (Appendix D).

S. a wind rose (i.e., prevailing wind speed and direction) and the source of the information;

A wind rose is provided on Drawing 110 in Appendix C.

T. facility location information:

1. seismic standard. In order to determine the applicability of the seismic standard, LAC 33:V.1503.A.3, the owner or operator of the facility must identify the political jurisdiction (e.g., parish, township, or election district) in which the facility is proposed to be located;

The Facility, including Landfill Cell 717 area, is located in portions of Sections 28, 33, 47, 48 and 51 of Township 5 South, Range 1 West of the Greensburg Land District in East Baton Rouge Parish, Louisiana. The Facility is located in Ward 1, Precinct 18 election district. A legal description of the main Facility owned property is provided in Appendix O.

a. the owner or operator shall demonstrate compliance with the seismic standard. This demonstration may be made using either published geologic data (including federal hazardous waste regulations) or data obtained from field investigations carried out by the applicant. The information provided must be of such quality to be acceptable to geologists experienced in identifying and evaluating seismic activity. The information submitted must show that either:

i. no faults which have had displacement in Holocene time are present, or no lineations which suggest the presence of a fault (which have displacement in Holocene time) within 3,000 feet of a facility are present, based on data from:

(a). published geologic studies, including cites from federal regulations which demonstrate that the requirements of this Section do not apply;

(b). aerial reconnaissance of the area within a five-mile radius from the facility;

(c). an analysis of aerial photographs covering a 3,000-foot radius of the facility; and

(d). if needed to clarify the above data, a reconnaissance based on walking portions of the area within 3,000 feet of the facility; or

The Federal Register was reviewed (40 CFR-Chapter 1-Part 264, Appendix VI). Appendix VI contains political jurisdictions in which compliance with 264.18(a), the seismic standard, must be demonstrated. Louisiana is not listed herein. Therefore, the federal regulations demonstrate that the requirements of the section do not apply as per LAC 33:V.517.T.1.a.i(a).

In addition, there are no known major faults defined in East Baton Rouge Parish according to the publication entitled "Earthquakes in Louisiana" by Donald Stevenson and Richard McCulloh (Louisiana Geological Survey Public Information Series No. 7). Refer to Appendix P.

Mr. Charles G. Smith, Geologist, conducted an evaluation of the potential for the existence of active faulting at the Facility and surrounding areas in 1990 as part of the RCRA Part B Permitting. The results of this evaluation were presented in a January 8, 1990 report titled "Evaluation of Potential for Existence of Active Faulting at RES(LA) Site". A copy of this report is included in Appendix P. Based on a review of a variety of data including aerial photographs, topographic maps and features, soil boring data, and a visual survey of surface and area surrounding the Facility, no indications of faults which have had displacement in the Holocene time (12,000 years before present) and lineations which suggest the presence of a fault within 3000 feet of the facility are present. Since 1990, there have no indications that would change these conclusions.

ii. no faults may pass within 200 feet of the portions of the facility where treatment, storage, or disposal of hazardous waste will be conducted based on data from a comprehensive geologic analysis of the site. Unless a site analysis is otherwise conclusive concerning the absence of faults within 200 feet of such portions of the facility, data shall be obtained from a subsurface exploration (trenching) of the area within a distance no less than 200 feet from portions of the facility where treatment, storage, or disposal of hazardous waste will be conducted. Such trenching shall be performed in a direction that is perpendicular to known faults (which have had displacement in Holocene time) passing within 3,000 feet of the portions of the facility where treatment, storage, or disposal of hazardous waste will be conducted. Such investigation shall document with supporting maps and other analyses, the location of any faults found, and shall be certified by an independent Louisiana registered professional engineer or geologist.

The Federal Register was reviewed (40 CFR-Chapter 1-Part 264, Appendix VI). Appendix VI contains political jurisdictions in which compliance with

264.18(a), the seismic standard, must be demonstrated. Louisiana is not listed herein. Therefore, the federal regulations demonstrate that the requirements of the section do not apply as per LAC 33:V.517.T.1.a.i(a).

In addition, there are no known major faults defined in East Baton Rouge Parish according to the publication entitled "Earthquakes in Louisiana" by Donald Stevenson and Richard McCulloh (Louisiana Geological Survey Public Information Series No. 7). Refer to Appendix P.

Mr. Charles G. Smith, Geologist, conducted an evaluation of the potential for the existence of active faulting at the Facility and surrounding areas in 1990 as part of the RCRA Part B Permitting. The results of this evaluation were presented in a January 8, 1990 report titled "Evaluation of Potential for Existence of Active Faulting at RES(LA) Site". A copy of this report is included in Appendix P. Based on a review of a variety of data including aerial photographs, topographic maps and features, soil boring data, and a visual survey of surface and area surrounding the Facility, no indications of faults which have had displacement in the Holocene time (12,000 years before present) and lineations which suggest the presence of a fault within 3000 feet of the facility are present. Since 1990, there have no indications that would change these conclusions.

In light of this information, the requirements of this paragraph do not apply to the facility.

2. *100-year floodplain;*

   a. *owners and operators of all facilities shall provide an identification of whether the facility is located within a 100-year floodplain;*

   b. *owners and operators of facilities located in the 100-year floodplain must provide the following information:*

      i. *the 100-year flood level and any other special flooding factors (e.g., wave action) which must be considered in designing, constructing, operating, or maintaining the facility to withstand washout from a 100-year flood;*

      ii. *engineering analysis to indicate the various hydrodynamic and hydrostatic forces expected to result at the site as a consequence of a 100-year flood;*

      iii. *structural or other engineering studies showing the design of operational units (e.g., tanks, incinerators) and flood protection devices (e.g., floodwalls, dikes) at the facility and how these will prevent washout;*

      iv. *if applicable, and in lieu of the above two provisions, a detailed description of procedures to be followed to remove hazardous waste to safety before the facility is flooded, including:*

v. *timing of such movement relative to flood levels, including estimated time to move the waste, showing that such movement can be completed before floodwaters reach the facility;*

vi. *a description of the location(s) to which the waste will be moved and demonstration that those facilities will be eligible to receive hazardous waste in accordance with LAC 33:V.Subpart 1;*

vii. *the planned procedures, equipment, and personnel to be used and the means to ensure that such resources will be available in time for use; and*

viii. *the potential for accidental discharges of the waste during movement;*

Drawing 106 in Appendix C is topographic map using the Scotlandville 7.5 minute quadrangle sheet as the background with an overlay of the floodplain designation for this area taken from the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM) Community Panel Number 220058 0060 D Revised May 17, 1993. These are the latest available maps for this area. The topography shown represents 1963 data. No revisions to the topographic features in the vicinity of the Facility have been made by the USGS since that time. The revisions have been pictorial, only. The floodplain designation was scanned from the referenced FIRM and superimposed onto the base map. The floodplain designations do not match well for some of the small drainage features along the Mississippi River bluff on the west side of the map. The floodplain designation in this area reflects potential backwater flooding from the Mississippi River. The U.S. Army Corps of Engineers (USACE), in the letter dated June 8, 1983, states that the design flood for the segment of the Mississippi River adjacent to the property, based on the worst conceivable flooding conditions, has a return interval substantially greater than once in 100 years and a flood elevation in the vicinity of CH(BR) of 51 feet NGVD. As indicated on this map, the Landfill Cell 717 area is not located within the 100-year floodplain. This map does show a small drainage feature based on 1963 topographical data extending east into the permitted Facility near the S&E Building. The elevation of this area was raised in the early 1980's to elevations above 75 feet NGVD (78 feet plant datum) as shown on Drawing 104 in Appendix C. These contours are based on aerial photography taken in March 1990. As shown on Drawing 106, elevation 75 feet is above of the potential floodplain. Therefore, no part of the permitted Facility including the Landfill Cell 717 area is located in a flood zone. Sections T.2.a-c are not applicable.

This drawing has a scale of 1"=500'. This is the best scale that the information can be reasonably shown on a D-size drawing due to the size of the coverage area.

c. *existing facilities not in compliance with LAC 33:V.1503.B.3 shall provide a plan showing how the facility will be brought into compliance and a schedule for compliance;*

As shown on Drawing 106 in Appendix C, Landfill Cell 717 is not located within the 100-year floodplain and are, therefore, in compliance with LAC 33:V.1503.B.3.

3. *site geology, including:*

a. *certification by a geologist or independent Louisiana registered professional engineer specializing in geotechnical engineering that the ground and subsurface conditions at the site are acceptable for the planned purposes of the facility;*

A certification by an independent Louisiana registered professional engineer stating the acceptability of the ground and subsurface conditions at the Facility including the area of Landfill Cell 717 was provided as part of the original RCRA Part B Permitting. Furthermore, certification of the closure of this landfill unit by an independent Louisiana registered professional engineer was also provided. Copies of these certifications are provided in Appendix L.

b. *identification of the uppermost aquifer and aquifers hydraulically interconnected beneath the facility property, including groundwater flow direction and rate, and the basis for such identification (i.e., the information obtained from hydrogeologic investigations of the facility area);*

The uppermost drinking water aquifer beneath the Facility is the "400-foot and 600-foot sands" (which are interconnected at the Facility) of the Pleistocene Age. The "400 to 600-foot sand is encountered at approximately 175 feet below land surface in the Facility area and exists as fine-to-medium grained sand, approximately 300 feet thick. Withdrawals from the aquifer in the Facility area are minor and limited to the Facility backup well (EB-886). Other wells in the "400-foot sand upgradient and downgradient of the Facility are either inactive or there is no data available on the status. Figures 2.1.1-5, 2.1.1-9, 2.1.1-10, 2.1.1-16, and 5.1-2 in Appendix P provide a typical cross section of the underground sources of drinking water beneath the site. Drawing 103 and Table 1 in Appendix C provides the location and description of the water wells within a 2-mile radius of the Facility. The direction of groundwater flow in the "400-foot sand" and the underlying aquifers beneath the Facility is predominantly to the south toward a cone of depression created by concentrated pumpage in the industrial plant area in North Baton Rouge (reference USGS, 1989). Using Darcy's Law, a hydraulic conductivity of 54 feet per day (Smith, 1969), a porosity of 39 percent (Smith, 1969), and a hydraulic gradient of 0.01, the rate of

groundwater flow toward the pumping centers south of the Facility is approximately 13.5 feet per day.

The "400-foot sand" is overlain primarily by stiff low permeability clays and silty clay to the land surface at the Facility. An extensive site exploration program has provided a database for mapping subsurface stratigraphy of the upper 150 to 175 feet beneath the Facility. Four distinct permeable units have historically been defined and monitored at the Facility. These units have been classified from the top down as Unit 3 (A-Zone), Unit 4 (B-1-Zone), Unit 6 (B-2-Zone) and Unit 8 (C-Zone). These permeable units are generally separated by silty clay and clay aquitards, except in the areas of interconnection. Units 3 and 4 are often found interconnected; similarly, Units 6 and 8 are sometimes contiguous. Some areas of interconnection between Units 4 and 6 have also been identified, although the number and areal extent of these interconnections are relatively small. The upper 25 to 30 feet of soil generally consists of primarily stiff clay with silty clay lenses. Unit 3 consists of medium to dense clayey silts and stiff to very stiff silty clays with numerous silt and sand pockets. This unit is encountered from about 30 to 40 feet below land surface. Unit 3, where present, is considered the "uppermost permeable unit" for monitoring. Unit 4, which is encountered from 40 to 60 feet below grade, also consists of similar type clayey silts and silty clays. Where Units 3 and 4 are interconnected, the lower part of Unit 4 consists of mixtures of clay, silt and fine sand. Unit 6 generally consists of medium dense to dense clayey silts and fine sands. This unit varies in thickness and is encountered between 60 and 90 feet below grade. Unit 8, which is the lowermost permeable unit, consists of dense to very dense silty sands and fine sands. This unit is encountered between 90 and 130 feet below grade. Unit 8 is underlain by approximately 50 feet of very stiff to hard clays and slightly silty clays.

Water levels in the shallow permeable units underlying the Facility range from approximately 10 feet to 50 feet below natural grade. The water-level information indicates that the primary direction of groundwater movement in all shallow units is southwesterly. The potentiometric surface of these units is shown on Figures 8 through 15 in the 2007 Annual Groundwater Monitoring Report in Appendix F. Using Darcy's Law, laboratory permeability test results, measured hydraulic gradients, and estimates of soil porosity, the average calculated horizontal groundwater flow rates range from 44 feet per year in Unit 3 to 128 feet per year in Unit 8 (Table 4, 2007 Annual Groundwater Monitoring Report in Appendix F).

c. *soil types, textures, and conditions to depth of thirty feet below lowest elevation of planned disposal cells for impoundments, landfill and land treatment facility based on test holes at 200-foot intervals (or greater or less intervals if acceptable to the administrative authority);*

The soil conditions across the Facility including the areas of Landfill Cell 717 have been determined by numerous soil borings to depths up to 175 feet below land surface. The results of these borings have been reported in numerous documents. As indicated in the response to the previous section, the soils to a depth of 175 feet consist predominantly of stiff clay and silty clay interspersed at four depths by relatively more permeable clayey silts and silty sands. Of these, only Unit 3 is within 40 feet of the surface. This upper permeable unit is found at depths of about 30 to 40 feet below land surface, and is a relatively thin clayey silt, silt, or fine sand. Investigation revealed that Unit 3 is relatively discontinuous, occurring only at select locations across the site. Typical cross sections of the subsurface conditions at the Facility are provided on Figures 7 through 15 in Appendix P.

d. logs of test holes and wells, including soil samples for each pertinent strata analyzed for soil type, texture, permeability, and other pertinent characteristics;

The hydrogeologic summary described in the response to LAC 33:V.517.T.3.c above is based on an extensive site exploration program that included the collection of continuous undisturbed samples and the installation of monitoring wells. Representative samples of the major lithologic units encountered in the borings were preserved and geotechnical testing was conducted and select samples. The hydraulic conductivity, grain-size distribution, moisture content, Atterberg limits, strength, and cation-exchange capacity of the selected samples were determined at a soils laboratory. Descriptions of the soil cores, results of hydraulic conductivity and grain size distribution tests, and cation-exchange capacity results are included in reports listed in Appendix P, all of which have been submitted to LDEQ and are on file and available for inspection at the facility.

e. general area map and cross sections indicating the extent of freshwater sands, and the degree of isolation of these aquifers to a depth of 1,000 feet from waste sources by confining layers of clay;

General area maps and cross sections indicating the extent of freshwater sands, and the degree of isolation of these aquifers to a depth of 1,000 feet from waste sources by confining layers of clay are contained in reports listed in Appendix P, all of which have been submitted to the LDEQ and are on file and available for inspection at the facility. A general map and cross sections indicating the extent of freshwater sands and the degree of isolation of these aquifers to a depth of at least 1,000 feet below the bottom of Landfill Cell 717 are provided on Figures 2.1.1-5, 2.1.1-9, 2.1.1-10, 2.1.1-16, and 5.1-2 in Appendix P.

f. on a topographic map, a delineation of the waste management area, the property boundary, the proposed "point of compliance" as defined under LAC

33:V.3311, the proposed location of groundwater monitoring wells as required under LAC 33:V.3315.A and B; and

A topographic map of the Facility including Landfill Cell 717 areas is provided on Drawing 104 in Appendix C. The property boundary and location of Landfill Cell 717 are provided on Drawings 100 through 103 in Appendix C. The "point of compliance" as defined under LAC 33:V.3311 is an imaginary line passing through the groundwater monitoring wells shown on Figures 2 and 2A in Appendix C and Figure 2 of the 2007 Annual Groundwater Monitoring Report in Appendix F. The Facility, including the Landfill Cell 717 area, has an existing groundwater monitoring system. The location of the monitoring wells are provided on Figures 2 through 7 in Appendix C and Appendix E of the 2007 Annual Groundwater Monitoring Report in Appendix F. The Construction Details are provided in Appendix E of the 2007 Annual Groundwater Monitoring Report in Appendix F of this post-closure permit renewal application.

g. detailed plans and an engineering report describing the proposed groundwater monitoring program to be implemented to meet the requirements of LAC 33:V.3315.A-H;

Groundwater monitoring has been ongoing at the Facility since the early 1980's. The groundwater-monitoring program, which meets the requirements of LAC 33:V.3315.A-H, has been described in the RCRA Part B Permit LAD 010395127-P and Post-Closure Permits LAD 010395127-PC-1, PC-2 and PC-3. The groundwater- monitoring program outlined in Post-Closure Permit LAD 010395127-PC-3 (Landfill Cell 717) supersedes the programs required in the other permits. The Facility has proposed to modify the current groundwater-monitoring program. Attached in Appendix T is the justification for the proposed changes and a revised groundwater sampling and analysis plan reflecting these proposed changes. The proposed changes deal primarily with analytical testing and monitoring frequencies. The Facility has also proposed to discontinue sampling of several offsite-monitoring wells that have adequate upgradient wells to monitor this area of the Facility.

4. site hydrology, including:

The 1,000-foot radius from Landfill Cell 717 and the permitted facility boundary is depicted on Drawing 102. The permitted facility boundary is surrounded by a perimeter levee that prevents runon to and runoff from the facility including Landfill Cell 717. Surface flow from Landfill Cell 717 is conveyed by a ditch system to Rainwater Basin RW-5 prior to discharge out NPDES Permitted

Outfall 002. Stormwater drainage is towards the west. The steep escarpment west of the Facility is dissected by ravines, which carry stormwater runoff intermittently.

a. travel times in feet/day for normal drainage of each natural surface drainage system within 1,000 feet of the property;

All of the natural surface drainage system within 1,000 feet of the property are intermittent and only flow during or after significant rainfall events. Due to the intermittent flows, there is no travel time data available for these drainage features. However, due to the size and slope towards the west, there are no drainage flow or volume capacity issues in this area of the Facility.

b. climate factors:

i. the 24-hour/25-year storm rainfall;

The 24-hour/25-year rainfall event for the Facility is between 9 and 10 inches according to the NOAA Technical Paper No. 40. The map depiction is in Appendix O of this post-closure permit renewal application.

ii. maximum, minimum, and average temperature/month for past 10 years;

The meteorological data, including temperature information, are provided in Appendix O.

iii. impact of previous hurricanes on area;

Climatological information in Appendix O includes the paths of past hurricanes that have affected Louisiana.

iv. comparison of rainfall and evapotranspiration rates; and

Rainfall is heavy during the year with an average annual total of about 56 inches. Rainfall is fairly evenly distributed throughout the year with average monthly totals in excess of four inches, except during the somewhat drier periods in October and November. Most rainfall is showery and brief from convective and air mass types except for occasional winter storms when

continuous rains from stationary cold fronts occur. Extremes in precipitation may occur in all seasons. The average annual precipitation rate, 56 inches, exceed the average annual evaporation rate, 48 inches (Weather Bureau Technical Paper No. 37), for a net water surplus.

v. prevailing wind direction (provide wind rose);

A wind rose is included in Appendix C, Drawing 110. The prevailing wind direction is southeasterly.

c. a description of any plume of contamination that has entered the groundwater from a regulated unit at the time that the application is submitted that:

i. delineates the extent of the plume on the topographic map such as required under LAC 33:V.521.B.4; and

ii. identifies the concentration of each Table 4, LAC 33:V.Chapter 33, constituent throughout the plume or identifies the maximum concentrations of each such constituent in the plume;

There is no evidence of a release to the subsurface environment from Landfill Cell 717. Prior to the construction of this landfill cell there were releases to the subsurface from other units at the Facility. The extent of groundwater contamination at the Facility has been defined by numerous investigations and is monitored on a semi-annual frequency, utilizing the extensive groundwater monitoring system. The concentration of each Table 4, LAC 33:V.Chapter 33, constituent has been determined. The extent of the plumes (Figures 17 through 25) and the concentrations (Tables 5 through 8) are discussed in detail in the 2007 Annual Groundwater Monitoring Report in Appendix F.

d. if the presence of hazardous constituents have not been detected in the groundwater at the time of permit application, the owner or operator must submit sufficient information, supporting data, and analyses to establish a detection monitoring program which meets the requirements of LAC 33:V.3317. This submission must address the following items specified under LAC 33:V.3317:

i. a proposed list of indicator parameters, waste constituents, or reaction products that can provide a reliable indication of the presence of hazardous constituents in the groundwater;

ii. a proposed groundwater monitoring system;

iii. *background values for each proposed monitoring parameter or constituent, or procedures to calculate such values; and*

iv. *a description of proposed sampling, analysis, and statistical comparison procedures to be utilized in evaluating groundwater monitoring data;*

The Facility has established a groundwater compliance-monitoring program that meets the requirements of LAC 33:V.3319. This program is also being used to monitor the Landfill Cell 717 areas. The Facility has proposed to modify the current groundwater-monitoring program. Attached in Appendix T is the justification for the proposed changes and a revised groundwater sampling and analysis plan reflecting these proposed changes. The proposed changes deal primarily with analytical testing and monitoring frequencies. The Facility has also proposed to discontinue sampling of several offsite-monitoring wells that have adequate upgradient wells to monitor this area of the Facility.

e. *if the presence of hazardous constituents has been detected in the groundwater at the point of compliance at the time of permit application, the owner or operator must submit sufficient information, supporting data, and analyses to establish a compliance monitoring program which meets the requirements of LAC 33:V.3319. The owner or operator must also submit an engineering feasibility plan for a corrective action program necessary to meet the requirements of LAC 33:V.3321. To demonstrate compliance with LAC 33:V.3319, the owner or operator must address the following items:*

i. *a description of the wastes previously handled at the facility;*

ii. *a characterization of the contaminated groundwater, including concentrations of hazardous constituents;*

iii. *a list of hazardous constituents for which compliance monitoring will be undertaken in accordance with LAC 33:V.3315 and 3317;*

iv. *proposed concentration limits for each hazardous constituent, based on the criteria set forth in LAC 33:V.3309.A, including a justification for establishing any alternate concentration limits;*

v. *detailed plans and an engineering report describing the proposed groundwater monitoring system, in accordance with the requirements of LAC 33:V.3315; and*

vi. *a description of proposed sampling, analysis, and statistical comparison procedures to be utilized in evaluating groundwater monitoring data;*

The presence of hazardous constituents has been detected in the groundwater at the point of compliance. There is no evidence that these constituents can be attributed to Landfill Cell 717. The Facility has established a groundwater compliance- monitoring program that meets the requirements of LAC 33:V.3315 and 3319. This program is also being used to monitor the Landfill Cell 717 area. This ongoing program has been described in the Facility's RCRA Part B Permit LAD 010395127-P and Post-Closure Permits LAD 010395127-PC-1 through PC-3. The requirements outlined in PC-3 supersede the requirements of the other permits. These requirements are described in Appendix A of the 2007 Annual Groundwater Monitoring Report in Appendix F of this post-closure permit renewal application. The Facility has proposed to modify the current groundwater-monitoring program. Attached in Appendix T is the justification for the proposed changes and a revised groundwater sampling and analysis plan reflecting these proposed changes. The proposed changes deal primarily with analytical testing and monitoring frequencies. The Facility has also proposed to discontinue sampling of several offsite-monitoring wells that have adequate upgradient wells to monitor this area of the Facility.

A list of waste codes received at the Facility is included in Appendix E. Historical information regarding waste types handled at the Facility was utilized in developing the list of monitoring constituents. The ongoing sampling, analysis and statistical comparison procedures currently being used to satisfy the requirements of the permits at the Facility is described in the groundwater monitoring reports in Appendix F. The proposed changes to this program is described in Appendix T

f. if hazardous constituents have been measured in the groundwater which exceed the concentration limits established under LAC 33:V.3309, Table 1, or if groundwater monitoring conducted at the time of permit application under LAC 33:V.3301-3309 at the waste boundary indicates the presence of hazardous constituents from the facility in groundwater over background concentrations, the owner or operator must submit sufficient information, supporting data, and analyses to establish a corrective action program which meets the requirements of LAC 33:V.3321. To demonstrate compliance with LAC 33:V.3321, the owner or operator must address, at a minimum, the following items:

i. a characterization of the contaminated groundwater, including concentrations of hazardous constituents;

ii. the concentration limit for each hazardous constituent found in the groundwater as set forth in LAC 33:V.3309;

iii. detailed plans and an engineering report describing the corrective action to be taken; and

iv. a description of how the groundwater monitoring program will demonstrate the adequacy of the corrective action;

The Facility has characterized the groundwater by numerous investigations and with the ongoing groundwater compliance monitoring program described in the responses to LAC 33:V.517.T.4.d and e. above. Hazardous constituents have been detected in the groundwater. A detailed corrective action program (Corrective Measures Study 1995 & 1998) has been submitted to the LDEQ and EPA as required by Section VII (HSWA) of the RCRA Part B Permit LAD 010395127-P. The LDEQ has reviewed and concurs that the proposed Corrective Measures will provide overall protection of human health and the environment, a means to attain media cleanup standards for soil and groundwater (RECAP Screening Standards), a means to control the sources of the releases, and are in compliance with standards for management of wastes, as applicable (see copy of LDEQ letter dated June 30, 2003 in Appendix J). The LDEQ issued an Administrative Order on December 3, 2003 that provides a schedule for implementing the Corrective Measures Work Phases. The Corrective Measures Implementation Workplan (CMIWP) was submitted to the LDEQ on March 1, 2008. The Facility is awaiting LDEQ review and approval. Following approval, the implementation of the CMIWP will be the next step in the CMS process.

The Facility has an ongoing pump and treat system that has been in operation since the early 1980's. The effectiveness of this system is monitored by the existing groundwater compliance monitoring program. The most recent results are described in the 2007 Annual Groundwater Monitoring Report in Appendix F. The implementation of the additional corrective measures proposed in the CMS will further enhance the effectiveness of the ongoing program.

5. environmental factors, including:

a. list all known historical sites, recreational areas, archaeological sites, wildlife areas, swamps and marshes, habitats for endangered species, and other sensitive ecological areas within 1000 feet of the site; and

b. indicate measures planned to protect such areas listed from detrimental impact from the operation of the proposed facility;

The landfill cell is located within the property boundary of CH(BR). This facility is located approximately a mile east of the floodplain of the Mississippi River, which is characterized by marshes swamps and wetland areas. There are no known archaeological, recreational or historically significant areas within 1,000 feet of the facility. This is confirmed by letter from the Louisiana Department of Culture, Recreation and Tourism. Refer to Appendix Q. In

addition, there are no known designated wildlife refuges or habitats for endangered species within 1,000 feet of the facility. This is confirmed by a letter from the U.S. Department of Wildlife and Fisheries. See submitted letter in Appendix Q. Agency confirmation letters are provided in Appendix Q. General wildlife characteristics of the region are found in relatively undisturbed areas west of CH(BR); these include woodlands adjoining the property (deer, squirrels, ducks, alligators, rabbits, snakes etc.) as well as swamps and marshes of the floodplain of the Mississippi River, where alligators are fairly common. Since 1000 feet from these landfill cells is still within CH(BR) property and based on the confirmation analysis from a variety of state and federal caretaker agencies, the post closure phase of this landfill cell will have minimal impact, if any, on surrounding wildlife.

6. *geographical factors. For an area within two miles of the proposed site, provide the following information:*

   a. *map or aerial photograph showing all buildings identified as residential, commercial, industrial, or public (schools, day care centers, hospitals, nursing homes, prisons, libraries, etc.);*

As shown in the aerial photographs and maps, Appendix C, this landfill cell is located on CH(BR) property well isolated from large population concentrations, being approximately seven (7) miles north of the city of Baton Rouge and approximately two miles west of the city of Baker. At over a quarter of a mile from the landfill cell is the property boundary of CH(BR). To the east of that boundary are Kansas City Southern Railroad tracks and U.S. Highway 61. To the west of the landfill cell, there are no buildings outside CH(BR) property all the way to the Mississippi River, a mile and a quarter away. To the south is the ExxonMobil Chemical plant. Further south are a variety of other chemical sites like Deltech Corporation. To the north and northwest of the landfill cell is a working ranch and agricultural property, and industrial facilities operated by Great Lake Carbon Corporation, NPC Services Corporation, and Exide Corporation. The nearest settlement is the community of Alsen, about one half mile east of the landfill cells.

The plant is located in an area zoned for industrial activities and is adjacent to the Mississippi River floodplain on the west and single-family residences to the east. A state industrial school for boys is located one half mile to the north and a small park (Alsen Park) is located one half mile due east. A small church is located three quarters of a mile to the east. The area south of the landfill cell is zoned for industrial activity.

   b. *population;*

Population data collected from the U.S. Census Bureau and the Baton Rouge Planning Commission, is tabulated below by U. S. Tract, representing the maximum population census in the designated areas. Tract 30.01; 30 is south and east of the landfill cell. Tract 41; 46.03 is northwest of the landfill cell. Tract 42.03 is northeast of the landfill cell.

U.S. Census Population (*note 1*)

Census Tract	1970	1980	1990	2000
Tract 30.01; 30	5445	8920	6004	6035
Tract 42.03	3458	4203	3899	4090
Tract 41; 46.03	405	322	447	3667

Note 1: Tract 30.01 was changed to Tract 30 during the 2000 census. Tract 41 was changed to Tract 46.03 during the 2000 census. Tract 4603 was also substantially increased in size eastward toward the town of Baker.

c. principal livelihood of residents for facilities located in rural areas;

The small residential community to the east of the landfill cell has an estimated population of several hundred people. Although there is some cattle farming to the north and west of the facility, the major livelihood of the residents is from employment in various industrial plants in the region.

d. land use; and

To the west and north of the landfill cell outside CH(BR) property is farmland to the west and the north, with grazing and wooded areas. The small residential rural community of Alsen is located to the east of Highway 61 which is located just outside CH(BR) property boundary. CH(BR) and other facilities to the south are part of the North Baton Rouge Industrial Complex.

e. road network, with average daily traffic count and route of trucks which will transport waste to the facility;

Truck access to CH(BR) property near this landfill cell, is provided by U.S. Highway 61, a four-lane divided highway. Arterial roadways include U.S. Highway 190, Interstate 110, Louisiana Highways 19, 423, 963, 408, and 67. U.S.

Highway 61 is the major access road into CH(BR) which provides access to these landfill cells. U.S. Highway 61 is constructed of concrete overlain by six to eight inches of asphalt according to the Louisiana Department of Transportation and Development (LA DOTD). It meets state and federal specifications to handle an 80,000-pound truck capacity. Traffic controls along U.S. Highway 61 at the main entrance are adequate to safely control traffic. Traffic controls include: stop signs, yield signs, wrong way signs and railroad crossing warning signs.

Landfill Cell 717 is closed. There are no deliveries of hazardous waste to this cell from hazardous waste trucks. CH(BR) continues to receive hazardous waste to its permitted facility adjacent to this landfill cell. During routine operations at CH(BR), vehicles carrying hazardous waste range between 15 to 20 vehicles a day. The transport vehicles are predominately trucks of all types including: vans, vacuum trucks, dump trucks, roll-off bin trucks, flatbed trucks, 5,000 to 7,000-gallon tanker trucks and LPG trailers.

7. *operations plan, including:*

   a. *classification and estimated quantities of wastes to be handled;*

Since this permit renewal application only covers the post-closure activities of Cell 717, there are no operational plans to handle any additional quantities of waste with respect to this unit.

   b. *methods and processes utilized:*

This section is not applicable since the permitted unit in this application is closed.

   i. *facility capacity for each disposal method;*

   ii. *detailed description of each process or method;*

   iii. *storage and disposal procedures:*

      (a). *plans for receipt, checking, processing, segregation of incompatible wastes, and odor control; and*

      (b). *life of each facility based on projected use;*

Landfill Cell 717 has been closed and is currently in its tenth year of post-closure care and monitoring in accordance with Post-Closure Permit LAD 010395127-PC-3. This cell is no longer in operation and no longer receiving any wastes.

(c). describe recordkeeping procedures, types of records to be kept, and use of the records by management to control the operation; and

Although the landfill cell is closed, the facility does continue to maintain certain records as a part of its ongoing facility operation and as they pertain to the closed cells during the post-closure monitoring period. For purposes of this permit renewal application, the facility maintains inspection records, maintenance records, records concerning past waste disposal activities, leachate collection and management records, groundwater monitoring records and reports, financial assurance documentation, and other documents as required by LAC 33:V. All of these records are available at the facility for the periodic review of both facility management and the outside regulatory authorities. The records are kept in order to demonstrate compliance with the post-closure monitoring requirements, ranging from periodic inspections to financial assurance maintenance. Periodic reviews of the records by management help to determine whether the facility is continuing to operate within the bounds of its post-closure permits and whether any adjustments need to be made.

(d). monitoring and recording of incoming wastes;

Landfill Cell 717 has been closed and is currently in its tenth year of post-closure care and monitoring in accordance with Post-Closure Permit LAD 010395127-PC-3. This cell is no longer in operation and no longer receiving any wastes.

Subchapter E. Specific Information Requirements

This section describes how Clean Harbors Baton Rouge, LLC (the Facility) will comply with the groundwater provisions of Louisiana regulations LAC 33:V. Reference is frequently made to the 2007 Annual Groundwater Monitoring Report in Appendix F of this Post-Closure Permit Renewal Application.

520. Specific Part II Information Requirements for Groundwater Protection

The following additional information regarding protection of groundwater is required from owners or operators of hazardous waste facilities containing a regulated unit except as provided in LAC 33:V.3301.B and C:

A. a summary of the groundwater monitoring data obtained during the interim status period under LAC 33:V.4367, 4369, 4371, 4373, and 4375, where applicable;

This is a post-closure permit renewal application for Landfill Cell 717 located at the facility. The construction, operation, closure and post-closure of this landfill cell was permitted under interim status, subsequent RCRA Part B Permit and Post-Closure Permits in accordance with the Louisiana Hazardous Waste Rules and Regulations (LHWRR). Groundwater monitoring has been ongoing at the facility including the area of Landfill Cell 717 since the early 1980's. The results of this monitoring, including during the interim status period have been reported previously to the LDEQ and EPA in reports at the frequency required by the permits and LHWRR. Since 1991, groundwater monitoring and reporting has been done at the Facility on a semi-annual basis. The most recent 2007 Annual Groundwater Monitoring Report provided in Appendix F of this Post-Closure Permit renewal application contain a summary of the groundwater data for the facility and subject landfill area.

B. identification of the uppermost aquifer and aquifers hydraulically interconnected beneath the facility property, including groundwater flow direction and rate, and the basis for such identification (i.e., the information obtained from hydrogeologic investigations of the facility area);

Hydraulically Connected Aquifers

The Facility is located where the Holocene Mississippi River Alluvial Valley adjoins a low late Pleistocene unit that is designated the Prairie complex. The Facility is located entirely within the Pleistocene Prairie complex deposits which consist of clays, silts, and sands (RFI, 1992).

Extensive site exploration has provided a database for mapping stratigraphy beneath the Facility. Data used in the classification and description of the hydrogeologic units at the Facility was obtained from the more than 500 soil borings completed at the site. (RFI, 1992). Data obtained during the subsurface explorations identify nine specific geologic units including four distinct water-bearing units within the upper 150 to 175 feet at the Facility. These water bearing units were identified as Units 3, 4, 6 and 8. These units generally correspond to the previously defined A (30 to 40 feet depth), B-1 (40 to 60 feet depth), B-2 (60 to 90 feet depth), and C (90 to 130 feet depth) zones, respectively. Four units (Units 2, 5, 7, and 9) represent lower permeability formations capable of reducing groundwater flow between units. The remaining unit (Unit 1) is a thin veneer of weathered Loess with minimal impact to the hydrogeology.

Water bearing Units 3 and 4 appear to be in direct hydraulic connection. Very little direct hydraulic communication is observed between Units 4 and 6. Unit 6 exhibits some hydraulic communication with Unit 8 in some areas, however, these units are also typically separated. Beneath the lowest water-bearing unit (Unit 8) a massive aquitard of regional significance is present. This aquitard separates the four units monitored at the Facility from underlying sources of groundwater in the area (RFI, 1992).

Unit 8 consists of dense to very dense; gray, dark gray, or olive; silty sands or fine sands classified SM or SP according to the Unified Soil Classification System (USCS) (RFI, 1992).

Unit 6 consists of medium dense to dense, layered, clayey silts and fine sands that grade with silty and sandy clays. Clean fine sands (SP) or silty sands (SM) are relatively rare. The deposits are predominantly light gray, gray, dark gray, greenish gray, or olive, reflecting very little oxidation (RFI, 1992).

Unit 4 consists of medium dense, tan and light gray to gray mixtures of clay, silt, and fine sand. These are variously classified as clayey sands (SC), clayey silts (ML), sandy silts (ML-SM), silty fine sands (SM-SP), or fine sands (SP)(RFI, 1992).

Unit 3 is typically composed of light gray and tan, medium dense to dense, clayey silts (ML) with clay pockets. The unit is often composed of stiff to very stiff, silty clays (CL) with numerous silt and sand pockets (RFI, 1992).

The Facility has been collecting hydrogeologic data from the groundwater monitoring system since the early 1980's. The hydrogeologic information summarized below was obtained from the 2007 Annual Groundwater Report for the Facility (March 2008) provided in Appendix F.

Groundwater Flow Directions

Potentiometric Maps

Potentiometric contour maps were developed for each of the four monitored units. The maps were developed from groundwater elevation data collected during the first quarter 2007 (1Q07) and third quarter 2007 (3Q07) (Figures 8 through 15 of 2007 Annual Groundwater Monitoring Report, Appendix F).

Based on the potentiometric contours, the groundwater flow in all units beneath the site is in a south-southwesterly direction. In general, the equipotential contours within all four units parallel the Mississippi River bluff escarpment, indicating discharge to, and (during periods of high river stage) recharge from, the alluvial floodplain deposits of the river. Some localized variations in the direction of groundwater flow are observed. These variations can be attributed to

localized variations in transmissivity and the influence of groundwater withdrawal from the existing groundwater recovery system.

In general, potentiometric conditions observed during the first and third quarters of 2007 were similar to conditions observed during previous reporting periods. The following sections further describe the potentiometric conditions within each unit during 2007.

Unit 3 (A Zone) Water-level measurements were obtained from 68 monitor wells, piezometers, and interceptor wells screened in Unit 3 during 2007 (Table 2). The potentiometric elevations in Unit 3 ranged from a high of 73.23 feet Plant Datum (PD) in 1Q07 (P-52, located northwest of the facility) to a low of 37.77 feet PD in 1Q07 (SM-04, located on the west side of the Facility). Average water levels in Unit 3 were slightly higher in 2007 than in 2006.

Hydraulic control appears to have been achieved at Interceptor Wells I-2, I-2R, and I-10. Each of these wells has produced from 5 to 20 feet of drawdown, based on groundwater level measurements from nearby wells.

Hydraulic gradients in Unit 3 were calculated from the 1Q07 and 3Q07 potentiometric contours on Figures 8 and 9. The average horizontal hydraulic gradient in Unit 3 during 2007 was approximately 0.007 ft/ft, slightly lower than the 2006 average of 0.008 ft/ft.

Unit 4 (B-1 Zone) Water-level measurements were obtained from 63 monitor wells, piezometers, and interceptor wells screened in Unit 4 during 2007 (Table 2). The potentiometric elevations in Unit 4 ranged from a high of 65.18 feet PD in 2Q07 (upgradient Monitor Well 01-B on the eastern property boundary) to a low of 24.43 feet PD in 4Q07 (AT-36, located across the southern boundary of the facility).

Hydraulic control appears to have been achieved at Interceptor Wells I-3, I-5, I-7, I-8, I-9, R-5, R-29A and R-30A. Each of these wells has produced from 1 to 8 feet of drawdown in its vicinity.

Hydraulic gradients in Unit 4 were calculated from the 1Q07 and 3Q07 potentiometric contours presented on Figures 10 and 11. The average horizontal hydraulic gradient in Unit 4 during 2007 was approximately 0.0108 ft/ft, approximately equal to the 2006 average.

Unit 6 (B-2 Zone) Water-level measurements were obtained from 64 monitor wells, piezometers, and interceptor/recovery wells screened in Unit 6 during 2007 (Table 2). The potentiometric elevations in Unit 6 ranged from a high of 60.89 feet PD in 3Q07 (DM-1, located in the southern margin of the facility) to a low of 19.56 feet PD in 4Q07 (I-6, located along the southern boundary of the property).

Hydraulic control appears to have been achieved at Interceptor Wells I-1, I-1R, I-4, I-6, R-1, and PR-1B. Each of these wells has produced from 5 to 25 feet of drawdown in its vicinity.

Hydraulic gradients in Unit 6 were calculated from the 1Q07 and 3Q07 potentiometric contours presented on Figures 12 and 13. The average horizontal hydraulic gradient in Unit 6 during 2007 was approximately 0.0111 ft/ft, approximately equal to the 2006 average.

<u>Unit 8 (C Zone)</u> Water-level measurements were obtained from 32 wells screened within Unit 8 during 2007 (Table 2). The potentiometric elevations in Unit 8 ranged from a high of 55.80 feet PD in 2Q07 (upgradient Monitor Well 14C, located in the northeast side of the facility) to a low of 26.26 feet PD during 4Q07 (downgradient Monitor Well AT-30, located off site on ExxonMobil property).

Hydraulic gradients in Unit 8 were calculated from the 1Q07 and 3Q07 potentiometric contours presented on Figures 14 and 15. The average horizontal hydraulic gradient in Unit 8 during 2007 was approximately 0.0105 ft/ft, slightly higher than the 2006 average.

<u>Horizontal Flow Direction</u>

Water level data collected from the site during 2007 indicate groundwater flow to be in a south-southwest direction in all four units with average gradients ranging from 0.007 ft/ft to 0.0111 ft/ft. The directions of flow and gradients are consistent with data collected during previous reporting periods. Groundwater levels were generally higher in all four quarters of 2007 as compared to the same quarters of 2006. In addition, seasonal variations in potentiometric elevations during 2007 were consistent with historical trends. Groundwater levels were typically highest during the second quarter and early third quarter of the 2007 reporting period, corresponding to high river stage periods of the Mississippi River.

In 2007, average horizontal groundwater flow velocities vary from a low of 22 feet per year in Unit 3 to a high of 103 feet per year in Unit 8. These velocities are slightly lower than the velocities calculated during 2006. These values should be judged relative as order-of-magnitude estimates. Actual horizontal flow velocities within each unit could vary significantly based on localized geologic variations and hydrodynamic stresses caused by groundwater pumping.

<u>Vertical Flow Direction</u>

Vertical flow velocities are summarized in the table below:

Flow From	Flow To	Aquitard	Average Aquitard Thickness (ft)	k_v (cm/sec)	Average Head Difference (ft)	V_v, Average Vertical Flow (ft/yr)
Unit 4	Unit 6	Unit 5	27	3.91×10^{-8}	41.49-47.69=-6.20	-0.046
Unit 6	Unit 8	Unit 7	32	5.76×10^{-8}	46.17-41.49=4.68	0.044
Unit 8	400-Ft Sand	Unit 9	50	1.40×10^{-7}	53.87-46.17=7.70	0.11

As shown on the table above, the difference in average head between Unit 4 and Unit 6 is negative, indicating the vertical groundwater gradient direction is slightly upward, on average, from Unit 6 to Unit 4. Note that flow between Units 3 and 4 was not calculated in the above table since these units are typically interconnected (i.e., the units are generally not separated by an aquitard).

Basis of Identification

To assess the horizontal and vertical groundwater flow components in the various permeable units, the potentiometric maps and water level data were evaluated. The following paragraphs contain a discussion of these evaluations.

Horizontal Flow

Evaluations of the average horizontal flow velocity (V_h) have been made for each of the four permeable units at the Facility. The evaluations utilize the following application of Darcy's law:

$$V_h = k_h i / n_e$$

Where:

V_h = *horizontal component of flow*
k_h = *hydraulic conductivity of the aquifer*

i = *hydraulic gradient, which is the difference in potentiometric elevations between two points divided by the distance between the points*
n_e = *effective porosity of the aquifer*

The hydraulic conductivity utilized in the calculations was the average of values determined from slug tests performed in each unit. Slug test data from Table 2.1.3-2C of the "Final RCRA Facility Investigation" Report (Volume II.1, Section 2.1.3) was averaged with more recent data collected during 1992, 1993 and 1995. The

average hydraulic gradient for each unit was determined from potentiometric maps of the hydrogeologic units being monitored.

The effective porosity used in the above calculation refers to the amount of interconnected pore space available for fluid flow. An average value of 15 percent (0.15) has been assumed as the effective porosity for each unit (Volume III, Section 2.1.5 of the RFI). With the wide variation typically associated with hydraulic conductivity, values varying over an order of magnitude within a given formation are common. As a result, the selection of a representative value for effective porosity is considered reasonable.

Vertical Flow

The four water-bearing units (Units 3, 4, 6 and 8) are typically separated by aquitards consisting of lower permeability clays and silty clays. However, based upon evaluations presented in the geologic model, and further confirmed in isolated areas by soil borings, some interconnection of the units does exist. The similarities in the potentiometric contours of each unit further indicate some degree of interconnection of units. This interconnection is particularly evident in Units 3 and 4.

The theoretical vertical flow velocity through aquitards can be determined by using Darcy's law, as follows:

$$V_v = k_v i / n_e$$

Where:

V = vertical velocity of flow

K = vertical hydraulic conductivity of the aquitard

I = hydraulic gradient, which is the difference

in potentiometric elevations between permeable zones

separated by the aquitard divided by the thickness of the aquitard

n_e = *effective porosity in the aquitard = 0.10*

Vertical hydraulic conductivities of the aquitards (Units 5, 7 and 9) were determined from laboratory test results. These data are summarized in Table 2.1.3-2E of the final RFI Report (1992). The difference in potentiometric elevation between two

adjacent permeable units (Units 4, 6 and 8) was calculated by averaging water level data collected from all wells during the first, second, third and fourth quarters of 2002. The difference in head between Unit 8 and the 400-ft sand aquifer was derived from information provided in the RFI Report. Therefore, these calculations represent a site-wide average velocity and actual velocities may vary due to variations in aquitard thickness and hydraulic conductivity, and the effects of groundwater recovery. The effective porosity for each unit was assumed to be 0.10.

C. on the topographic map required under LAC 33:V.517.B, a delineation of the waste management area, the property boundary, the proposed "point of compliance" as defined under LAC 33:V.3311, the proposed location of groundwater monitoring wells as required under LAC 33:V.3315, and, to the extent possible, the information required in LAC 33:V.520.B;

The property boundary and location of Landfill Cell 717 is provided on Drawings 100 through 103 in Appendix C. The "point of compliance" as defined under LAC 33:V.3311 is an imaginary line passing through the groundwater monitoring wells shown on Figures 2 and 2A in Appendix C and Figure 2 of the 2007 Annual Groundwater Monitoring Report in Appendix F. As required by LAC 33:V.3315, the Facility including the Landfill Cell 717 area has an existing groundwater monitoring system. The location of the monitoring wells and including construction details are provided on Figures 2 through 7 in Appendix C and Figures 2 through 7 and Appendix E of the 2007 Annual Groundwater Monitoring Reports in Appendix F. The potentiometric maps showing groundwater elevations and flow directions (information required in LAC 33:V.520.B) for all four (4) monitored units are provided on Figures 8 through 15 in the 2007 Annual Groundwater Monitoring Report in Appendix F.

D. a description of any known plume of contamination that has entered the groundwater from a regulated unit at the time that the application was submitted that:

There is no evidence of a release to the subsurface environment from Landfill Cell 717. Prior to the construction of this landfill cell there were releases to the subsurface from other units at the Facility. The extent of groundwater contamination has been defined by numerous investigations and is monitored on a semi-annual frequency utilizing the extensive groundwater monitoring system. The extent of the plumes (Figures 17 through 25) and the concentrations (Tables 5 through 8) are discussed in detail (Section 4.0) in the 2007 Annual Groundwater Monitoring Reports in Appendix F.

1. *delineates the extent of the plume on the topographic map required under LAC 33:V.517.B; and*

For each unit that exhibited contamination, concentration isopleths (isoconcentration) were generated for VOC, SVOC and Pesticide/Herbicide parameters using an average of all 2007 total sample concentrations at each sample location. Isoconcentration maps are provided on Figures 17 through 25 in Appendix F. In general, isoconcentration contours for the 2007 reporting period were consistent with the historical contours. Isoconcentration maps were not generated for Unit 8 because only low-level, isolated occurrences of detected constituents were observed in this unit.

In instances where a well had more than one set of data for the reporting period, an average concentration for the period was calculated and used to construct the isoconcentration contours. All concentrations shown on the maps are in parts per million (ppm). The isopleths are contoured to illustrate order of magnitude variations (i.e., 10 ppm, 1 ppm, 0.1 ppm, etc). It should be noted that below-detection-limit concentrations and instances where constituents were detected in the Method Blank (i.e., concentrations footnoted with a "J", "B", or "K" in Table 5, Appendix F) are not included in the "total" concentration amounts illustrated on Figures 17 through 25 in Appendix F. Exclusion of these concentrations is considered insignificant due to the order-of-magnitude contour intervals used. Reference is made to Table 5, Appendix F for a listing of below-detection-limit concentrations for each well.

2. *identifies the concentration of each constituent listed in LAC 33:V.3325 throughout the plume or identifies the maximum concentrations of each LAC 33:V.3325 constituent in the plume;*

<u>Unit 3 (A Zone)</u>

In general, analytical results for this unit in 2007 were consistent with previous years. Residual concentrations of VOCs, SVOCs, and pesticides/herbicides are present within Unit 3. Figures 17, 18, and 19, respectively, illustrate isoconcentration contours depicting the areal distribution of these constituent groups. Review of these figures, along with Tables 5, 6, 7, and 8, indicate the following:

- **Total VOC concentrations in Interceptor Wells I-2 and I-2R, and in wells 04A, 23A, and 24A (Area 1, the South Landfill Area) ranged from 0.0039 mg/l to 230 mg/l (Figure 17). Total VOC concentrations observed in wells 25A, 27A, and 28A (Area 6, Process Area), ranged in concentration from 0.685 mg/l to 9.365 mg/l. Total VOC concentrations in wells I-10, 6A, 7A, 12A, 13A, 13A-R, and SM-03 (Area 3, West Landfill Area), ranged from 0.379 to 22.05 mg/l. Well**

10A and P-26 (Area 4, Cell 719) exhibited total VOC concentrations averaging 0.4855 mg/l and 0.0125 mg/l, respectively.

- Total SVOC concentrations in Unit 3 (Figure 18) were observed in Area 3 (wells 6A, 12A, 13A-R, and SM-3) with total SVOC concentration ranging from 0.0245 mg/l to 0.274 mg/l). Area 6 (wells 27A and 25A with concentrations of 0.029 mg/l and 0.595 mg/l, respectively), and Area 4 (wells 10A and P-26 with concentrations of 0.2765 mg/l and 0.0435 mg/l, respectively). Well 24A, located in Area 1, had a total SVOC concentration of 2.555 mg/l. Total SVOC concentrations in other portions of the facility were below detection limits.

- The highest total pesticide/herbicide concentrations in Unit 3 (Figure 19) were detected in Area 3 [wells 12A (0.02008 mg/l) and SM-03 (0.01206 mg/l)] and Area 6 [wells 25A (0.07267 mg/l) and well 27A (0.01254 mg/l)]. Wells 04A and 24A, located in Area 1, had total pesticide/herbicide concentrations of 0.0061 mg/l and 0.00071 mg/l respectively. Total pesticide/herbicide concentrations detected in other portions of the facility were less than 0.005 mg/l.

Unit 4 (B-1 Zone)

In general, analytical results for this unit in 2007 were consistent with previous years. Residual concentrations of VOCs, SVOCs, and pesticides/herbicides are present within Unit 4. Figures 20, 21, and 22, respectively, illustrate isoconcentration contours depicting the areal distribution of these constituent groups. Review of these figures, along with Tables 5, 6, 7, and 8, indicate the following:

- The highest concentration of VOCs detected in Unit 4 was off-site and downgradient of the Facility to the southwest, on GBRPC property (Figure 20). Well AT-36, showed an average total VOC concentration of 340 mg/l which, based on extensive investigation, appears unrelated to the Facility. The next highest concentration was detected in Area 4 well I-12, which had an average VOC concentration on the order of 61.1 mg/l, much lower than the concentration detected downgradient in well AT-36. Elevated VOC concentrations were also observed in Area 1 wells 4B-1, I-7, I-8, R-5, and 32B-1; Area 2 wells 5B and 5B-1; Area 3 wells 13B, 21A, 7B, and I-5; Area 4 wells 9AW, I-13, and I-11; and Area 6 wells 29A, 30A, 26A. VOC concentrations ranged from 0.0975 mg/l to 8.0 mg/l. Other areas generally exhibit total VOC concentrations less than 1.0 mg/l.

- The highest total SVOC concentration in Unit 4 was observed in Area 3 in well 21A with a total concentration of 5.655 mg/l (Figure 21). Total SVOC concentrations in other portions of the facility (Areas 1 and 4) were less than 1.0 mg/l with the exception of wells 7B and 13B-1 in Area 3 with average total

SVOC concentrations of 1.545 mg/l and 1.15 mg/l, respectively, and well 5B-1 in Area 2 with 1.0975 mg/l.

- The highest average total pesticide/herbicide concentration in Unit 4 was detected in Area 1 wells 4B-1 and 32B-1; Area 2 wells 5B-1 and 5B; and Area 3 wells 20A, 13B-1, and 7B (Figure 22). Pesticide/herbicide concentrations ranged from 0.00667 mg/l to 0.01722 mg/l in these wells. Pesticides/herbicides were also detected at lower concentrations (less than 0.01 mg/l) in the vicinity of Areas 1, 3 and 6.

Unit 6 (B-2 Zone)

In general, analytical results for this unit in 2007 were consistent with previous years. Residual concentrations of VOCs, SVOCs, and pesticides/herbicides are present within Unit 6. Isoconcentration contours depicting the areal distribution of these constituent groups are presented on Figures 23, 24, and 25, respectively. Review of these figures, along with Tables 5, 6, 7, and 8, indicate the following:

- As in Unit 4, the highest VOC concentrations were detected offsite and downgradient of the Facility on the GBRPC site (Figure 23). The highest average total VOC concentration of 243 mg/l was detected in Monitor Well AT-34. A predominant constituent detected in this well, and nearby wells, was 1,1,1,2-tetrachloroethane. The data strongly indicate that this constituent is associated with a downgradient offsite source. VOCs were also detected in Area 1 wells 4B, 24B-2, 31B-2, 32B-2, I-1, I-1R, I-6, AT-15, AT-35, AT-37, DM-03; Area 2 well 5B-2; Area 3 wells 6BR, 21B-1, and AT-21; and Area 6 well 28B-1. VOC concentrations ranged from 0.0055 mg/l to 10.05 mg/l. Concentrations of VOCs in other portions of the facility were less than 0.7 mg/l.

- The highest SVOC concentrations were detected in Area 3 well 21B-1 at a total concentration of 0.9645 mg/l and in off-site and downgradient GBRPC well AT-34 at a total concentration of 0.5275 mg/l (Figure 24). SVOC concentrations were also detected in Area 1 wells 31B-2, 32B-2, 24B-2; Area 2 well 5B-2; and Area 4 well 10B. SVOC concentrations ranged from 0.047 mg/l to 0.2855 mg/l.

- Similar to the SVOC plume described above, the Unit 6 pesticide/herbicide plume (Figure 25) generally occurs immediately downgradient of Area 1, within upgradient portions of the Unit 6 VOC plume. The predominant constituents detected have included the herbicides Silvex, 2,4,5-T and 2,4-D. Total pesticide/herbicide concentrations ranged from 0.61725 mg/l (well 24B-2)

near the source to non-detectable levels within a few hundred feet to the southwest. Low-level sporadic detections (less than 0.005 mg/l) were observed in downgradient wells, located southwest and off-site of the Facility, as well as 21B-1, which is located on the boundary between Area 3 and Area 4.

<u>Unit 8 (C Zone)</u>

In general, analytical results for this unit in 2007 were consistent with previous years. Isolated, low-level concentrations of VOCs have been detected in Unit 8 (see Tables 5, 6, 7, 8). Due to the relatively limited extent of constituents in this unit, isoconcentration maps were not generated. Conditions in Unit 8 may be summarized as follows:

- **Low-level VOCs were detected in Unit 8 well 53C (Area 3) and 33CU (Area 2).**
- **SVOCs were not detected in Unit 8 wells at or above MDLs during 2007.**
- **Herbicides/pesticides were not detected in Unit 8 wells at or above MDLs during 2007.**

E. detailed plans and an engineering report describing the proposed groundwater monitoring program to be implemented to meet the requirements of LAC 33:V.3315;

Groundwater sampling and analytical testing are conducted semi-annually in accordance with the requirements of the Final Modified Permit LAD010395127-P, and Post-closure Permits LAD010395127-PC-1, LAD010395127-PC-2 and LAD010395127-PC-3 (Landfill Cells 901, 902, and 717, respectively). Sampling and analyses followed the procedures originally outlined in the Revised Sampling and Analysis Plan (SAP) submitted to LDEQ on April 8, 1993, as required under Section II.E.21.m of the Final Modified Permit. The SAP provides procedures for sample collection, sample preservation and shipment, analytical testing, chain of custody control, parameters to be analyzed, and quality assurance/quality control for groundwater sampling and analysis. A revised sampling program was approved by LDEQ in August, 1998 (Post-Closure Permit LAD 010 395 127-PC-3), and is included as Table VI-1 in Appendix A of the 2007 Annual Groundwater Monitoring Report in Appendix F. The field and laboratory protocols presented in the SAP are consistent with procedures previously employed at the site. The Facility has proposed to modify the current groundwater-monitoring program. Attached in Appendix T is the justification for the proposed changes and a revised groundwater sampling and analysis plan reflecting these proposed changes. The proposed changes deal primarily with analytical testing and monitoring frequencies. The Facility has also proposed to discontinue sampling of several offsite-monitoring wells that have adequate upgradient wells to monitor this area of the Facility.

Depending on the well classification (i.e., compliance, corrective action, etc.), testing is performed to determine the presence/absence of all or some of the constituents listed within Table 4 of the Louisiana Administrative Code, Section 33:V.3325 (similar to the RCRA Appendix IX list of compounds). The various constituent groups included within Table 1, Appendix F, are as follows:

- Volatile Organic Constituents (VOC's)
- Semi-Volatile Organic Constituents (SVOC's)
- Chlorinated and Organophosphorous Pesticides (Pests)
- Herbicides (Herbs)
- Metals
- Cyanide and Sulfide

Other constituent groups that are not included within Table 4 (LAC 33:V.3325) but are analyzed for periodically include:

- Radionuclides (Gross Alpha, Gross Beta, Radium) (Every other year, required in 2008)

Table VI-1REV of the Post-Closure Permit LAD 010 395 127-PC-3 lists the sampling frequency and testing requirements for all of the wells in the groundwater monitoring network. These requirements have superseded the Final Modified Permit and the Landfill Cell 717 Post-Closure Permits and were implemented during 1999. Post-Closure Permit PC-3 resulted in uniform permit requirements for groundwater at the site.

Table 1, Appendix F, summarizes constituent groups analyzed in each well along with the analytical test methods that were used. Example analytical data sheets for the various constituent groups analyzed (i.e., VOCs, SVOCs, etc.) are presented in Appendix B of the 2007 Annual Groundwater Monitoring Report (Appendix F). These sheets provide a complete listing of the individual compounds included within each constituent group. Along with Table 1 in Appendix F, these sheets provide a complete summary of the analytical testing performed on each well.

With the exception of pH and conductivity measurements, which are performed in the field, all groundwater samples are shipped via overnight delivery service to USEPA-certified laboratories, which are also LDEQ laboratory accreditation candidates, for analytical laboratory testing. The laboratory data sheets and associated QA/QC documentation are on file at the Facility and the laboratory.

The Facility has proposed to modify the current groundwater-monitoring program. Attached in Appendix T is the justification for the proposed changes and a revised groundwater sampling and analysis plan reflecting these proposed changes. The proposed changes deal primarily with analytical testing and monitoring frequencies. The Facility has also proposed to discontinue sampling of

several offsite-monitoring wells that have adequate upgradient wells to monitor this area of the Facility. The Facility proposes to use this revised groundwater compliance-monitoring program to meet the requirements of LAC 33:V.3315.

F. if the presence of hazardous constituents has not been detected in the groundwater at the time of permit application, the owner or operator must submit sufficient information, supporting data, and analyses to establish a detection monitoring program that meets the requirements of LAC 33:V.3317. This submission must address the following items specified under LAC 33:V.3317:

There is no evidence of a release to the subsurface environment from Landfill Cell 717. Prior to the construction of these landfill cells there were releases to the subsurface from other units at the Facility. The Facility has established a groundwater compliance monitoring program that meets the requirements of LAC 33:V.3319. This program is also being used to monitor the Landfill Cell 717 area. This program is described in Appendix A of the 2007 Annual Groundwater Monitoring Report in Appendix F of this post-closure permit renewal application.

The extent of groundwater contamination has been defined by numerous investigations and is monitored on a semi-annual frequency utilizing the extensive groundwater monitoring system. The concentration of each Table 4, LAC 33:V.Chapter 33, constituent has been determined. The extent of the plumes (Figures 17 through 25) and the concentrations (Tables 5 through 8) are discussed in detail in the 2007 Annual Groundwater Monitoring Report in Appendix F.

1. *a proposed list of indicator parameters, waste constituents, or reaction products that can provide a reliable indication of the presence of hazardous constituents in the groundwater;*
2. *a proposed groundwater monitoring system;*
3. *background values for each proposed monitoring parameter or constituent, or procedures to calculate such values; and*
4. *a description of proposed sampling, analysis, and statistical comparison procedures to be utilized in evaluating groundwater monitoring data;*

G. if the presence of hazardous constituents has been detected in the groundwater at the point of compliance at the time of the permit application, the owner or operator must submit to the Office of Environmental Services, Permits Division, sufficient information, supporting data, and analyses to establish a compliance monitoring program that meets the requirements of LAC 33:V.3319. Except as provided in LAC 33:V.3317.H, the owner or operator must also submit to the Office of Environmental Services, Permits Division, an engineering feasibility plan for a corrective action program necessary to meet the requirements of LAC 33:V.3321, unless the owner or

operator obtains written authorization in advance from the administrative authority to submit a proposed permit schedule for submittal of such a plan. To demonstrate compliance with LAC 33:V.3319, the owner or operator must address the following items:

The Facility has established a groundwater compliance-monitoring program that meets the requirements of LAC 33:V.3319. This program is also being used to monitor the Facility including Landfill Cell 717 area. This program is described in Appendix A of the 2007 Annual Groundwater Monitoring Report in Appendix F of this post-closure permit renewal application. The Facility has proposed to modify the current groundwater-monitoring program. Attached in Appendix T is the justification for the proposed changes and a revised groundwater sampling and analysis plan reflecting these proposed changes. The proposed changes deal primarily with analytical testing and monitoring frequencies. The Facility has also proposed to discontinue sampling of several offsite-monitoring wells that have adequate upgradient wells to monitor this area of the Facility. The Facility proposes to use this revised groundwater compliance-monitoring program to meet the requirements of LAC 33:V.3319.

1. *a description of the hazardous waste code specified in LAC 33:V.Chapter 49 for the wastes previously handled at the facility;*

A list of waste codes managed in Landfill Cell 717 is provided in Appendix E.

2. *a characterization of the contaminated groundwater, including concentrations of hazardous constituents;*

The groundwater has been characterized using the ongoing compliance monitoring program. The results of this monitoring are provided in the 2007 Annual Groundwater Monitoring Report in Appendix F and as discussed in the responses to LAC 33:V.520.D.1 and D.2 above.

3. *a list of hazardous constituents for which compliance monitoring will be undertaken in accordance with LAC 33:V.3315 and 3319;*

The existing and proposed Facility groundwater compliance-monitoring program includes analytical testing for hazardous constituents in accordance with LAC 33:V.3315 and 3319. Details on the analytical testing program are provided in Appendix F and in the response to LAC 33:V.520.E above. The Facility is proposing to use the revised program described in Appendix T for this post-closure permit renewal application.

4. *proposed concentration limits for each hazardous constituent, based on the criteria set forth in LAC 33:V.3309.A, including a justification for establishing any alternate concentration limits;*

The concentration limits for the hazardous constituents currently monitored at the facility are provided in Appendix B in the 2007 Annual Groundwater Monitoring Report (Appendix F). The concentration limits shown represent the practical quantitation limits (PQLs) for the suggested SW-846 methods. The PQLs are the lowest concentrations that can be reliably determined within specified limits of precision and accuracy by the indicated methods under routine laboratory operating conditions. As a result, the PQLs can vary and are not part of the regulations. The facility proposes to continue the use of PQLs for each hazardous constituent. In the event the facility proposes to establish any alternate concentration limits, the criteria set forth in LAC 33:V.3309.A and 3309.B will be followed as a justification for these concentration limits. The Facility has proposed to modify the current groundwater-monitoring program. Attached in Appendix T is the justification for the proposed changes and a revised groundwater sampling and analysis plan reflecting these proposed changes. The proposed changes deal primarily with analytical testing and monitoring frequencies. No changes to concentration limits are proposed. The Facility is proposing this same program with the revisions in Appendix T for this post-closure permit renewal application.

5. *detailed plans and an engineering report describing the proposed groundwater monitoring system, in accordance with the requirements of LAC 33:V.3315; and*

Currently the Facility has a compliance groundwater monitoring program that meets the requirements of LAC 33:V.3315. The Facility is proposing this same program with these revisions outlined in Appendix T for this post-closure permit renewal application. As described in the groundwater report in Appendix F, the Facility's groundwater monitoring network currently consists of 39 Compliance Point Wells, 22 Compliance Wells-Upgradient, 108 Compliance Wells-Downgradient, 23 Corrective Action Wells, 40 Piezometers, and 2 Process Wells. The locations of these wells are shown on Figures 2 through 7 in Appendix C and F. Well construction details including subsurface unit monitored in each well are shown in Appendix F (Appendix E, 2007 Report).

6. *a description of proposed sampling, analysis, and statistical comparison procedures to be utilized in evaluating groundwater monitoring data;*

The sampling, analysis and statistical comparison procedures utilized in the current groundwater compliance monitoring program at the Facility is described in the 2007 Annual Groundwater Monitoring Report in Appendix F.

The current analytical testing summary showing the well sampling schedule and types of analytical parameters sampled for in each well is shown on Table 1 of the reports in Appendix F. Proposed revisions to sampling frequency and analytical testing methods are provided in Appendix T

The statistical procedures currently used to evaluate groundwater-monitoring *data and the effectiveness of corrective action is long and short-term data trend* graph plots. Total concentration versus time graphs for each constituent group (i.e., total VOCs, total SVOCs and total Pesticides/Herbicides) is generated for each well with detected constituents in order to review long-term data trends. The concentration-versus-time graphs are included in Appendix F of the report in Appendix F. The majority of wells affected have demonstrated long-term decreases in concentration of VOCs, SVOCs, and Pesticides/Herbicides. Many of the wells with long-term increases have shown short-term decreases for the past several years.
For each graph, regression analyses are performed to calculate the equation of the "best fit" line through the data; the regression equation is presented at the bottom of each graph. The slope coefficient in the equation indicates the rate of change in concentration over time while its sign indicates the direction of change (positive for increasing and negative for decreasing). Since concentrations can vary over time by several orders of magnitude, the data are graphed on a semi-logarithmic scale in units of parts per billion (ppb). All values of non-detection are represented as 1 ppb due to the inability to graph zero on a logarithmic scale.

To provide an assessment of short-term trends, total concentrations for the various constituent groups detected within each well during a given year (2007) are compared to total concentrations detected during the previous year (2006). Changes in total VOC, SVOC, and Pesticide/Herbicide concentrations since the 2006 annual reporting period are presented on Tables 6, 7, and 8 (Appendix F), respectively. A negative value indicates a decrease from 2006 while a positive value indicates an increase. The following subsections summarize both long- and short-term trends for each constituent group (i.e., total VOCs, SVOCs, and Pesticides/Herbicides). Long-term trends are evaluated by reviewing the historical trend graphs presented in Appendix F of the reports in Appendix F. Short-term trends are evaluated by reviewing both the trend graphs and Tables 6, 7, and 8 (Appendix F). For purposes of this evaluation, "unaffected" wells will refer to wells with constituent concentrations below method detection limits (MDLs) whereas "affected" wells will refer to wells with constituent concentrations (other than laboratory-type constituents) above MDLs.

pH/conductivity measurements are also taken in the field during sampling as required by the Permits. Trend graphs showing both the recent and historical pH/conductivity data are presented in Appendix F of the 2007 Annual Groundwater Monitoring Report in Appendix F. These trend graphs provide useful information regarding variations in groundwater quality within a particular well. For many sites with little or no baseline analytical data, these

parameters can be evaluated using statistical methods to identify potential areas of groundwater impact. However, due to the extensive amount of analytical data presently available for the Facility, these data are more useful in evaluating the consistency between historical sampling events rather than predicting potential groundwater impacts. Review of the pH/conductivity graphs in Appendix F of the 2007 Annual Groundwater Monitoring Report (Appendix F) provides for the following observations.

- **In general, pH/conductivity values measured during 2007 were consistent with readings obtained during 2006 and previous years. Historical trends for pH/conductivity are relatively flat with no significant changes**
- **The values of pH occur within the range of 5.50 Standard Units (SU) to 8.00 SU, often averaging near 7.00 SU (i.e., in the neutral range)**
- **Conductivity values generally range from 500 to 1,000 micromhos per centimeter (μmhos/cm.)**

The Facility proposes to continue using the sampling, analysis, and statistical procedures described above and proposed revisions included in Appendix T to meet the requirements of LAC 33:V.520.I.6.

H. if hazardous constituents have been measured in the groundwater that exceed the concentration limits established under LAC 33:V.3309.Table 1, or if groundwater monitoring conducted at the time of permit application under LAC 33:V.4367, 4369, 4371, 4373, and 4375 at the waste boundary indicates the presence of hazardous constituents from the facility in groundwater over background concentrations, the owner or operator must submit sufficient information, supporting data, and analyses to establish a corrective action program that meets the requirements of LAC 33:V.3321. However, an owner or operator is not required to submit information to establish a corrective action program if he or she demonstrates to the administrative authority that alternate concentration limits will protect human health and the environment after considering the criteria listed in LAC 33:V.3309.B. An owner or operator who is not required to establish a corrective action program for this reason must instead submit sufficient information to establish a compliance monitoring program that meets the requirements of LAC 33:V.3319 and LAC 33:V.520.F. To demonstrate compliance with LAC 33:V.3321, the owner or operator must address, at a minimum, the items listed in LAC 33:V.520.H.1-4 below (the permit may contain a schedule for submittal of the information required in LAC 33:V.520.H.3 and 4 provided the owner or operator obtains written authorization from the administrative authority prior to submittal of the complete permit application):

The Facility has submitted sufficient information, supporting data, and analyses to establish a corrective action program that meets the requirements of LAC 33:V.3321. The Facility has an ongoing corrective action and groundwater compliance-monitoring program that is described in the 2007 Annual Groundwater Monitoring Report in Appendix F.

Additional corrective actions, which include groundwater recovery, capping, etc. have also been proposed as part of the Draft Corrective Measures Study (CMS) and subsequent CMS Addendum(s) submitted to the LADEQ in August 1995, December 1997 and August 1998, respectively. The CMS was submitted in fulfillment of Section F and Tasks VII through X of the Facility's HSWA Permit and Administrative Order on Consent, EPA Docket No. VI-004-(h)-88-H. The LDEQ has reviewed and concurs that the proposed Corrective Measures will provide overall protection of human health and the environment, a means to attain media cleanup standards for soil and groundwater (RECAP Screening Standards), a means to control the sources of the releases, and are in compliance with standards for management of wastes, as applicable (see copy of LDEQ letter dated June 30, 2003 in Appendix J). The LDEQ issued an Administrative Order on December 3, 2003 that provides a schedule for implementing the Corrective Measures Work Phases. The Corrective Measures Implementation Workplan (CMIWP) was submitted on March 1, 2008. The Facility is awaiting review and approval. Following approval, the implementation of the CMIWP will be the next step in the CMS process.

The Facility proposes to continue using the corrective action program described above to meet the requirements of LAC 33:V.3321.

1. *a characterization of the contaminated groundwater, including concentrations of hazardous constituents;*

A detailed characterization of the contaminated groundwater at the Facility, including concentrations of hazardous constituents is provided in the 2007 Annual Groundwater Monitoring Report in Appendix F and in the response to LAC 33:V.520.D above.

2. *the concentration limit for each hazardous constituent found in the groundwater as set forth in LAC 33:V.3309;*

The concentration limit for each hazardous constituent found in the groundwater at the Facility as set forth in LAC 33:V.3309 is provided in the 2007 Annual Groundwater Monitoring Report in Appendix F and in the response to LAC 33:V.520.D above.

3. *detailed plans and an engineering report describing the corrective action to be taken; and*

The ongoing corrective action at the Facility (pump and treat) is described in details in the 2007 Annual Groundwater Monitoring Report in Appendix F and in the response to LAC 33:V520.I above.

Additional corrective actions, which include groundwater recovery, capping, etc. have also been proposed as part of the Draft CMS and subsequent CMS Addendum(s) submitted to the LADEQ in August 1995, December 1997 and August 1998, respectively. The CMS was submitted in fulfillment of Section F and Tasks VII through X of the Facility's HSWA Permit and Administrative Order on Consent EPA Docket No. VI-004-(h)-88-H. The LDEQ has reviewed and concurs that the proposed Corrective Measures will provide overall protection of human health and the environment, a means to attain media cleanup standards for soil and groundwater (RECAP Screening Standards), a means to control the sources of the releases, and are in compliance with standards for management of wastes, as applicable (see copy of LDEQ letter dated June 30, 2003 in Appendix J). The LDEQ issued an Administrative Order on December 3, 2003 that provides a schedule for implementing the Corrective Measures Work Phases. The Corrective Measures Implementation Workplan (CMIWP) was submitted on March 1, 2008. The Facility is awaiting review and approval. Following approval, the implementation of the CMIWP will be the next step in the CMS process.

4. *a description of how the groundwater monitoring program will demonstrate the adequacy of the corrective action.*

The 2007 Annual Groundwater Monitoring Report in Appendix F describes the groundwater compliance-monitoring program currently in use at the Facility. The reports and the response to LAC: 33.V.520.G.6 above also discuss long-term and short-term trends in groundwater quality and demonstrate the adequacy of corrective measures. Some of these changes are due to operation of the corrective action wells. Section 4.2 and Appendix F of the 2007 Annual Groundwater Monitoring Report in Appendix F summarizes short-term and long-term trends in groundwater quality. These trends are partially due to operation of the corrective action wells.

The Facility proposes to continue the groundwater monitoring and evaluation program described above and proposed revisions in Appendix T to demonstrate the adequacy and effectiveness of the corrective action program.

5. *the permit may contain a schedule for submittal of the information required in LAC 33:V.520.H.3 and 4 provided the owner or operator obtains written authorization from the administrative authority prior to submittal of the complete permit application.*

The Facility acknowledges that the post-closure permit may contain a schedule for submittal of the information required in LAC 33:V.520.H.3 and 4.

528. Part II Information Requirements for Post-Closure Permits

A. For post-closure permits, the owner or operator is required to submit only the information specified in LAC 33:V.516; 517.A, B, F, G, H, M, N, P, R, and T; and 520, unless the administrative authority determines that additional information from LAC 33:V.516, 517, 520, 523, 525, 527, 531, and 533 is necessary. The owner or operator is required to submit the same information when an alternative authority is used in lieu of a post-closure permit as provided in LAC 33:V.305.H.

As required for this post-closure permit renewal application, the Facility has submitted the information specified in LAC 33:V.516; 517.A, B, F, G, H, M, N, P, R, and T; and 520.

Chapter 25

Landfills

2501. Applicability

A. *The regulations in this Chapter apply to owners and operators of facilities that dispose of hazardous waste in landfills, except as specified in LAC 33:V.1501.*

The design, construction, operation, and closure of Landfill Cell 717 at the Clean Harbors Baton Rouge, LLC facility (the Facility) were completed in accordance with applicable LDEQ approvals, Louisiana Hazardous Waste Rules and Regulations applicable at the time, interim status and the Facility RCRA Part B Permit. This landfill cell is currently in its tenth year of post-closure care monitoring in accordance with Post-Closure Permit LAD 01039512-PC3. Portions of this chapter are applicable for this post-closure permit renewal application. Responses are provided to all of the applicable portions. Comments are also provided for some of the other non-applicable regulations for information purposes only.

2503. Design and Operating Requirements

A. *Any landfill that is not covered by LAC 33:V.2503.K or 4512.A must have a liner system for all portions of the landfill (except for existing portions of such landfill). The liner system must have:*

1. *a liner that is designed, constructed, and installed to prevent any migration of wastes out of the landfill to the adjacent subsurface soil, or groundwater or surface water throughout the active life (including the closure period) of the landfill. The liner, at a minimum, must consist of a synthetic liner laid on top of a permanent barrier at the bottom and along the sides of the landfill. The liner must be constructed of materials that prevent wastes from passing into the liner during the active life of the facility. The liner must be installed to cover all surrounding earth likely to be in contact with the waste or leachate. The liner must be:*

   a. *constructed of materials that have appropriate chemical properties and sufficient strength and thickness to prevent failure due to pressure gradients (including static head and external hydrogeologic forces), physical contact with waste or leachate to which they are exposed, climatic conditions, the stress of installation, and the stress of daily operation;*

   b. *placed upon a foundation or base capable of providing support to the liner and resistance to pressure gradients above and below the liner to prevent failure of the liner due to settlement, compression, or uplift;*

   c. *be resistant to the action of the elements, contents placement (including equipment used to place contents), and chemical action of the contents by means protecting the integrity of the barrier; and*

d. the permanent barrier shall be at least three feet of recompacted clay with a permeability of 1 x 10^{-7} cm/sec or less and so designed and operated as to prevent endangering any fresh-water aquifer by the migration of contaminants from the facility, or equivalent system acceptable to administrative authority; and

Landfill Cell 717 was designed and constructed with a recompacted clay bottom liner and a recompacted clay cap in accordance with the requirements at the time and LAC 33:V.2503.A.1. Details on the liner systems, which have been provided previously, are included in the Post-Closure Care Plan and Engineering Reports in Appendix N and Certification documents in Appendix L. The bottom liner and cap were constructed of at least three feet of recompacted clay with a permeability of 1 x 10^{-7} cm/sec or less.

2. a leachate collection and removal system immediately above the synthetic liner that is designed, constructed, maintained and operated to collect and remove leachate from the landfill. The administrative authority will specify design and operating conditions in the permit to ensure that the leachate depth over the liner does not exceed 30 centimeters (one foot). The leachate collection and removal system must be designed and operated to function without clogging through the scheduled closure of the landfill and constructed of materials that are:

a. chemically resistant to the waste managed in the landfill and the leachate expected to be generated; and

b. of sufficient strength and thickness to prevent collapse under the pressures exerted by overlying wastes, waste cover materials, and any equipment used at the landfill.

Landfill Cell 717 is equipped with a leachate collection and removal system that is designed to meet the requirements of LAC 33.V.2503.A.2. Details on this system, which has been provided previously, are included in the Post-Closure Care Plan and Engineering Reports in Appendix N and Certification documents in Appendix L. The leachate collection and removal system has been maintained and operated during this post-closure care period to collect and remove leachate from Landfill Cell 717.

B. Unless the permittee demonstrates to the administrative authority that the first permeable zone in which groundwater monitoring would occur is not a potable water aquifer, a leachate detection system shall be provided. A permanent barrier of at least three feet of recompacted clay with a permeability of 1 x 10^{-7} cm/sec or less shall be installed below the leachate detection system, which is located immediately

under the liner system as required by LAC 33:V.2503.A unless an equivalent system is acceptable to the administrative authority.

Landfill Cell 717 is equipped with a primary leachate collection and leachate collection and detection system. Details on these systems, which have been provided previously, are included in the Post-Closure Plan in Appendix B and Certification documents in Appendix L. The bottom liner below the leachate collection system of this landfill cell was constructed of at least three feet of recompacted clay with a permeability of 1 x 10^{-7} cm/sec or less.

C. The owner or operator of any replacement landfill unit is exempt from LAC 33:V.2503.L if:

1. *the existing unit was constructed in compliance with the design standards of Section 3004(o)(1)(A)(i) and (o)(5) of the Resource Conservation and Recovery Act; and*
2. *there is no reason to believe that the liner is not functioning as designed.*

This document consists of the post-closure permit renewal application for Landfill Cell 717. No replacement landfill (s) are proposed as part of this post-closure permit renewal application.

D. The owner or operator must design, construct, operate, and maintain a run-on control system capable of preventing flow onto the active portion of the landfill during peak discharge from a 24-hour, 25-year storm.

Landfill Cell 717 has been closed. There are no active portions of this landfill.

E. The owner or operator must design, construct, operate, and maintain a run-off management system to collect and control at least the water volume resulting from a 24-hour, 25-year storm.

The cap system for Landfill Cell 717 is sloped to collection ditches and drop structures that prevent the accumulation of rain water and allow the removal of a 24-hour, 25-year rainfall event from the cap in a timely manner. Details on the cap drainage system for Landfill Cell 717, which has been provided previously, are included in the Post-Closure Plan in Appendix B and Certification documents in Appendix L.

F. Collection and holding facilities (e.g., tanks or basins) associated with run-on and run-off control systems must be emptied or otherwise managed expeditiously after storms to maintain the design capacity of the system. Collected material must be disposed of properly.

Drainage from Landfill Cell 717 is conveyed into the Facility's stormwater management system (ditches and basins). The ditches and basins are managed during and after a storm event to maintain the design capacity of the system. Stormwater from the landfill areas and the Facility is discharged via NPDES permitted stormwater outfall 002.

G. If the landfill contains any particulate matter which may be subject to wind dispersal, the owner or operator must cover or otherwise manage the landfill to control wind dispersal. Wetting of the landfill for control of particulate matter is not allowed unless the landfill is equipped with a leachate collection system equivalent to LAC 33:V.2503.A.2.

Landfill Cell 717 has been closed. There are no active portions of this landfill subject to wind dispersal.

H. The administrative authority will specify in the permit all design and operating practices that are necessary to ensure that the requirements of this Section are satisfied.

Landfill Cell 717 was designed, constructed, operated, closed and is currently in post-closure care monitoring in accordance with LDEQ-approved permits.

I. If noxious gases are generated, (or have the potential to be generated), the administrative authority may specifically require a gas collection and control system.

There is no evidence that any noxious gases are being generated from this cell. The Facility acknowledges that if noxious gases are generated (or have the potential to be generated), the administrative authority may specifically require a gas collection and control system.

J. Accumulated rainfall and groundwater must be removed from the active portions of landfills in a timely manner.

Landfill Cell 717 has been closed. There are no active portions of this landfill. The cap system for this cell is sloped to collection ditches and drop structures that prevent the accumulation and allow the removal of any rainfall from the cap in a timely manner.

K. Materials That May Be Landfilled

1. *Materials that may be landfilled using clay encapsulation in compliance with the permit, any order of the assistant secretary, and state or federal regulations, if they meet the following criteria:*

   a. *the material does not contain free liquid, except for laboratory packs;*

   b. *the content of the metals listed in LAC 33:V.4903.D as amended does not exceed 50 percent;*

   c. *the free cyanide content does not exceed 500 ppm;*

   d. *the phenol concentration does not exceed 5 percent;*

   e. *the PCB content does not exceed 50 ppm;*

   f. *any leachate that would be produced can be handled by the facility with existing technology;*

   g. *halogenated solvents content does not exceed 5 percent, i.e., waste streams numbers F001, F002, K016, K019, K029, K030, K085, K095, K096, P028, U025, U037, U044, U048, U070, U071, U072, U076, U077, U078, U079, U080, U083, U084, U131, U184, U207, U208, U209, U210, U226, U227, and U228;*

   h. *nonhalogenated solvents content does not exceed 10 percent, i.e, waste streams numbers F003, F004, F005, F009, K025, U019, U056, U159, U220, and U239;*

   i. *the material is not a confined gas;*

   j. *it is not an infectious waste as defined in LAC 33:V.109;*

   k. *it is not an ignitable waste as defined in LAC 33:V.4903.A;*

   l. *it is not a corrosive waste as defined by the pH limits in LAC 33:V.4903.B;*

   m. *it is not a reactive waste as defined in LAC 33:V.4903.C;*

   n. *it is not a radioactive waste as defined by the Radiation Protection regulations (LAC 33:XV); and*

   o. *it is not a listed hazardous waste as defined in LAC 33:V.Chapter 49 and it is not banned from land disposal as set forth in LAC 33:V.Chapter 22.*

Landfill Cell 717 is closed and in its tenth year of post-closure care monitoring. This regulation is not applicable for this post-closure permit renewal application.

2. *Permittees may request approval for landfilling of wastes which do not meet the criteria on a case-by-case basis. Such a request must include specific data on how such waste does not meet the criteria, documentation on why high technology destruction/detoxification is not practicable, and provide risk assessment information as to why such landfilling will not endanger public health or the environment.*

Reference is made to the response to LAC 33:V.2503.K.1 above.

3. *The administrative authority may authorize changes, up to double the specified value, on the following materials listed in LAC 33:V.2503.J.1: metals, free cyanide, phenol, halogenated solvents, and nonhalogenated solvents.*

Reference is made to the response to LAC 33:V.2503.K.1 above.

L. *The owner or operator of each new landfill unit on which construction commenced after January 29, 1992, each lateral expansion of a landfill unit on which construction commenced after July 29, 1992, and each replacement of an existing landfill unit that was to commence reuse after July 29, 1992, must have installed two or more liners and a leachate collection and removal system above and between such liners. "Construction commences" is as defined in LAC 33:V.109.Existing Facilities.*

1. *The liner system must include:*

   a. *a top liner designed and constructed of materials (e.g., a geomembrane) to prevent the migration of hazardous constituents into such liner during the active life and post-closure care period; and*

   b. *a composite bottom liner consisting of at least two components. The upper component must be designed and constructed of materials (e.g., a geomembrane) to prevent the migration of hazardous constituents into such component during the active life and post-closure care period. The lower component must be designed and constructed of materials to minimize the migration of hazardous constituents if a breach in the upper component were to occur. The lower component must be constructed of at least 3 feet (91 cm) of compacted soil material with a hydraulic conductivity of no more than 1×10^{-7} cm/sec. The administrative authority may require additional liner design*

requirements based on the location of the landfill in relation to drinking water aquifers.

2. *The liners must comply with LAC 33:V.2503.A.1.a-d.*

3. *The leachate collection and removal system immediately above the top liner must be designed, constructed, operated, and maintained to collect and remove leachate from the landfill during the active life and post-closure care period. The administrative authority will specify design and operating conditions in the permit to ensure that the leachate depth over the liner does not exceed 1 foot (30 cm). The leachate collection and removal system must comply with LAC 33:V.2503.L.4.c-d.*

4. *The leachate collection and removal system between the liners (and immediately above the bottom composite liner in the case of multiple leachate collection and removal systems) is also a leak detection system. This leak detection system must be capable of detecting, collecting, and removing leaks of hazardous constituents at the earliest practicable time through all areas of the top liner which are likely to be exposed to waste or leachate during the active life and post-closure care period. The requirements for a leak detection system in this Section are satisfied by installation of a system that is, at a minimum:*

   a. *constructed with a bottom slope of 2 percent or more;*

   b. *constructed of granular drainage materials with a hydraulic conductivity of 1 x 10^{-2} cm/sec or more and a thickness of 12 inches (30.5 cm) or more; or constructed of synthetic or geonet drainage materials with a transmissivity of 3 x 10^{-5} m^2/sec or more;*

   c. *constructed of materials that are chemically resistant to the waste managed in the landfill and the leachate expected to be generated and are of sufficient strength and thickness to prevent collapse under the pressures exerted by overlying wastes, waste cover materials, and equipment used at the landfill;*

   d. *designed and operated to minimize clogging during the active life and post-closure care period; and*

   e. *constructed with sumps and liquid removal methods (e.g., pumps) of sufficient size to collect and remove liquids from the sump and prevent liquids from backing up into the drainage layer. Each unit must have its own sump(s). The design of each sump and removal system must provide a method for measuring and recording the volume of liquids present in the sump and of liquids removed.*

5. *The owner or operator shall collect and remove pumpable liquids in the leak detection system sumps to minimize the head on the bottom liner.*

6. *The owner or operator of a leak detection system that is not located completely above the seasonal high water table must demonstrate that the operation of the leak detection system will not be adversely affected by the presence of groundwater.*

Closed Landfill Cell 717 is equipped with LDEQ-approved liner and leachate collection and detection systems that meet the requirements outlined in LAC 33:V.2503.L. Details on these systems, which have been provided previously, are included in the Post-Closure Plan in Appendix B and Certification documents in Appendix L. Construction of the bottom liner systems for Landfill Cell 717 was completed prior to January 29, 1992.

M. The administrative authority may approve alternative design or operating practices to those specified in LAC 33:V.2503.L if the owner or operator demonstrates to the administrative authority that such design and operating practices, together with location characteristics:

1. will prevent the migration of any hazardous constituent into the groundwater or surface water at least as effectively as the liners and leachate collection and removal systems specified in LAC 33:V.2503.L; and

2. will allow detection of leaks of hazardous constituents through the top liner at least as effectively.

Landfill Cell 717 is closed and undergoing post-closure care in accordance with post-closure permit. The Facility is not seeking approval of alternate designs or operating practices as part of this post-closure permit renewal application.

N. The double liner requirements set forth in LAC 33:V.2503.L may be waived by the administrative authority for any monofill under the following circumstances:

1. The monofill contains only hazardous wastes from foundry furnace emission controls or metal casting molding sand, and such wastes do not contain constituents which would render the wastes hazardous for reasons other than the Toxicity Characteristic in LAC 33:V.4903.E (Hazardous Waste Numbers D004 through D017 only); and

2. The monofill meets the criteria of either LAC 33:V.2503.M.2.a or b below:

a. The monofill:

i. has at least one liner for which there is no evidence that such liner is leaking;

ii. is located more than one-quarter mile from an underground source of drinking water (as that term is defined in LAC 33:V.109); and

iii. is in compliance with generally applicable groundwater monitoring requirements for facilities with permits.

b. The owner or operator demonstrates that the monofill is located, designed, and operated so as to assure that there will be no migration of any hazardous constituent into groundwater or surface water at any future time.

Landfill Cell 717 is closed and undergoing post-closure care in accordance with post-closure permit. This landfill was designed and approved for construction prior to these double liner requirements.

2504. Action Leakage Rate

A. *The administrative authority shall approve an action leakage rate for landfill units subject to LAC 33:V.2503.L or M. The action leakage rate is the maximum design flow rate that the leak detection system (LDS) can remove without the fluid head on the bottom liner exceeding one foot.. The action leakage rate must include an adequate safety margin to allow for uncertainties in the design (e.g., slope, hydraulic conductivity, thickness of drainage material), construction, operation, and location of the LDS, waste and leachate characteristics, likelihood and amounts of other sources of liquids in the LDS, and proposed response actions (e.g., the action leakage rate must consider decreases in the flow capacity of the system over time resulting from siltation and clogging, rib layover and creep of synthetic components of the system, overburden pressures, etc.).*

Landfill Cell 717 was designed and approved for construction prior to these action leakage rate requirements. The leak detection system for this cell is located underneath the recompacted clay bottom liner system and below the water table. The leak detection system in conjunction with the above bottom liner leachate collection system and the facility groundwater monitoring system is used to monitor the integrity of this landfill cell. Details on these systems, which have been provided previously, are included in the Engineering Report included in Appendix N.

B. *To determine if the action leakage rate has been exceeded, the owner or operator must convert the weekly or monthly flow rate from the monitoring data obtained under LAC 33:V.2507.D to an average daily flow rate (gallons per acre per day) for each sump. Unless the administrative authority approves a different calculation, the average daily flow rate for each sump must be calculated weekly during the active life and closure period and monthly during the post-closure care period when monthly monitoring is required under LAC 33:V.2507.D.*

Landfill Cell 717 was designed and approved for construction prior to these action leakage rate requirements. This subsection is not applicable to this closed landfill cell as discussed above in the response to LAC 33:V.2504.A.

2505. Exemption

A. *There are no exemptions from the groundwater protection requirements in LAC 33:V.Chapter 33.*

The Facility does not request an exemption from the groundwater monitoring requirements in LAC 33:V.Chapter 33 for this post-closure permit renewal application.

2507. Monitoring and Inspection

A. The facility must provide the department with 30 days advanced notice of the times of installation to allow the administrative authority the opportunity to inspect the liner and installation.

Landfill Cell 717 is closed and undergoing post-closure care in accordance with the existing post-closure permit. No liner installation work is currently planned as part of this post-closure permit renewal application.

B. During construction or installation, liners (except in the case of existing portions of landfills exempt from LAC 33:V.2503.A) and cover systems (e.g., membranes, sheets, or coatings) must be inspected for uniformity, damage, and imperfections (e.g., holes, cracks, thin spots, or foreign materials). Immediately after construction or installation:

1. synthetic liners and covers must be inspected to ensure tight seams and joints and the absence of tears, punctures, or blisters; and

2. soil-based and admixed liners and covers must be inspected for imperfections including lenses, cracks, channels, root holes, or other structural non-uniformities that may cause an increase in the permeability of the liner or cover.

Landfill Cell 717 is closed and undergoing post-closure care in accordance with the existing post-closure permit. No liner installation work is currently planned as part of this post-closure permit renewal application.

C. While a landfill is in operation, it must be inspected weekly and after storms to detect evidence of any of the following:

[Comment: The permit application must include a detailed inspection plan.]

1. deterioration, malfunctions, or improper operation of run-on and run-off control systems;

2. the presence of liquids in leak detection systems;

3. proper functioning of wind dispersal control systems, where present; and

4. the presence of leachate in and proper functioning of leachate collection and removal systems, where present.

Landfill Cell 717 is closed and currently undergoing post-closure care in accordance with the post-closure permit. The inspection schedule currently being used and proposed for this post-closure permit renewal application is included in Appendix H.

D. An owner or operator required to have a leak detection system under LAC 33:V.2503.L or M must record the amount of liquids removed from each leak detection system sump at least once each week during the active life and closure period.

Landfill Cell 717 is closed and undergoing post-closure care in accordance with the post-closure permit. The leak detection system for this landfill cell is currently being inspected at least once monthly during the post-closure care period. The Facility is not proposing any changes to this inspection frequency in this post-closure permit renewal application, except as allowed below in LAC 33:V.2507.D.1.

1. After the final cover is installed, the amount of liquids removed from each leak detection system sump must be recorded at least monthly. If the liquid level in the sump stays below the pump operating level for two consecutive months, the amount of liquids in the sumps must be recorded at least quarterly. If the liquid level in the sump stays below the pump operating level for two consecutive quarters, the amount of liquids in the sumps must be recorded at least semi-annually. If, at any time during the post-closure care period, the pump operating level is exceeded at units on quarterly or semi-annual recording schedules, the owner or operator must return to monthly recording of amounts of liquids removed from each sump until the liquid level again stays below the pump operating level for two consecutive months.

The final cover system has been installed on Landfill Cell 717 since 1995. The amount of liquids removed from the leak detection system is recorded at least monthly. No changes to this schedule are currently proposed in this post-closure permit renewal application. However, as allowed by LAC 33:V.2507.D.1, the Facility proposes, as part of this post-closure permit renewal application, to change the inspection and recording of liquids from the leachate detection systems to quarterly if the sump stays below the pump operating level for two consecutive months and semi-annually if the liquid stays below the pump operating level for two consecutive quarters. As required, the Facility will also change the frequency back to monthly if the liquid level exceeds the pump operating level during the quarterly or semi-annual schedule until two consecutive months of levels below the pump operating level have been achieved.

2. *"Pump operating level" is a liquid level proposed by the owner or operator and approved by the administrative authority based on pump activation level, sump dimensions, and level that avoids backup into the drainage layer and minimizes head in the sump.*

The Facility proposes to define the "pump operating level" for the leachate collection system in Landfill Cell 717 as approximately 1 foot above the bottom of the leachate collection riser pipes for this post-closure permit renewal application. The leak detection system is operated manually during the routine inspections since they are located underneath the recompacted clay bottom liner.

2508. Response Actions

A. *The owner or operator of landfill units subject to LAC 33:V.2503.L or M must have an approved response action plan before receipt of waste. The response action plan must set forth the actions to be taken if the action leakage rate has been exceeded. At a minimum, the response action plan must describe the actions specified in LAC 33:V.2508.B.*

Landfill Cell 717 was designed and permitted before formal Response Action Plans were required by LAC 33:V.2508. In addition, this landfill cell has been closed and is in its tenth year of post-closure care monitoring. There has been no evidence of any releases and leakage from these landfill cells during the current post-closure care period. However, during post-closure and as part of this post-closure permit renewal application, the Facility proposes to continue monitoring and inspection of the leak detection system during routine inspections.

B. *If the flow rate into the leak detection system exceeds the action leakage rate for any sump, the owner or operator must:*

1. *notify Office of Environmental Services, Permits Division in writing of the exceedence within seven days of the determination;*
2. *submit a preliminary written assessment to the Office of Environmental Services, Permits Division within 14 days of the determination, as to the amount of liquids, likely sources of liquids, possible location, size, and cause of any leaks, and short-term actions taken and planned;*
3. *determine to the extent practicable the location, size, and cause of any leak;*
4. *determine whether waste receipt should cease or be curtailed, whether any waste should be removed from the unit for inspection, repairs, or controls, and whether or not the unit should be closed;*
5. *determine any other short-term and long-term actions to be taken to mitigate or stop any leaks; and*

6. *within 30 days after the notification that the action leakage rate has been exceeded, submit to the Office of Environmental Assessment, Environmental Technology Division the results of the analyses specified in LAC 33:V.2508.B.3-5, the results of actions taken, and actions planned. Monthly thereafter, as long as the flow rate in the leak detection system exceeds the action leakage rate, the owner or operator must submit to the administrative authority a report summarizing the results of any remedial actions taken and remedial actions planned.*

See response above to LAC 33:V.2508.A. However, during post-closure and as part of this post-closure permit renewal application, the Facility proposes to continue monitoring and inspection of the leak detection system during routine inspections.

C. *To make the leak and/or remediation determinations in LAC 33:V.2508.B.3-5, the owner or operator must:*

1. *assess the sources of liquids and amounts of liquids by source;*
2. *conduct a fingerprint, hazardous constituent, or other analyses of the liquids in the leak detection system to identify the sources of liquids and possible location of any leaks, and the hazard and mobility of the liquid; and*
3. *assess the seriousness of any leaks in terms of potential for escaping into the environment; or*
4. *document why such assessments are not needed.*

See response above to LAC 33:V.2508.A. However, during post-closure and as part of this post-closure permit renewal application, the Facility proposes to continue monitoring and inspection of the leak detection system during routine inspections.

2509. Surveying and Recordkeeping

The owner or operator of a landfill must maintain the following items in the operating record:

A. *on a map, the exact location and dimensions, including depth of each cell with respect to permanently surveyed benchmarks; and*

B. *the contents of each cell and the approximate location of each hazardous waste type within each cell.*

Landfill Cell 717 is closed and undergoing post-closure care in accordance with the post-closure permit. The surveying and records required under LAC 33:V.2509 are maintained at the Facility.

2511. Special Requirements for Ignitable or Reactive Waste

A. Except as provided in LAC 33:V.2511.B and 2519, ignitable or reactive waste must not be placed in a landfill, unless the waste and landfill meet all applicable requirements of LAC 33:V.Chapter 22, and:

1. the resulting waste, mixture, or dissolution of material no longer meets the definition of ignitable or reactive waste in LAC 33:V.4903.B or D; and

2. LAC 33:V.1517.B is complied with.

B. Except for prohibited wastes subject to treatment standards in LAC 33:V.Chapter 22, ignitable wastes in containers may be landfilled without meeting the requirements of LAC 33:V.2511.A, provided that the wastes are disposed of in such a way that they are protected from any material or conditions which may cause them to ignite. At a minimum, ignitable wastes:

1. must be disposed of in non-leaking containers which are carefully handled and placed so as to avoid heat, sparks, rupture, or any other condition that might cause ignition of the wastes; and

2. must be covered daily with soil or other non-combustible material to minimize the potential for ignition of the wastes; and

3. must not be disposed of in cells that contain or will contain other wastes which may generate heat sufficient to cause ignition of the waste.

Landfill Cell 717 is closed and undergoing post-closure care in accordance with the post-closure permit. The special requirements for ignitable and reactive wastes in LAC 33:V.2511 are not applicable for this post-closure permit renewal application.

2513. Special Requirements for Incompatible Wastes

A. Incompatible wastes, or incompatible wastes and materials, must not be placed in the same landfill cell, unless LAC 33:V.1517 is complied with or LAC 33:V.4321 for interim status facilities.

Landfill Cell 717 is closed and undergoing post-closure care in accordance with the post-closure permit. The special requirements for incompatible wastes in LAC 33:V.2513 are not applicable for this post-closure permit renewal application.

2515. Special Requirements for Bulk and Containerized Liquids

A. *Bulk or noncontainerized liquid waste or waste containing free liquids may be placed in a landfill prior to May 8, 1985 only if:*

1. *the landfill has a liner and leachate collection and removal system that meet the requirements of LAC 33:V.2503.A; or*
2. *before disposal, the liquid waste or waste containing free liquids is treated or stabilized, chemically or physically (e.g., by mixing with a sorbent solid), so that free liquids are no longer present.*

B. *Effective May 8, 1985, the placement of bulk or noncontainerized liquid hazardous waste or hazardous waste containing free liquids (whether or not sorbents have been added) in any landfill is prohibited.*

C. *Containers holding free liquids must not be placed in a landfill unless:*

1. *all free-standing liquids:*
   a. *have been removed by decanting, or other methods;*
   b. *have been mixed with sorbent or solidified so that the free-standing liquid is no longer present; or*
   c. *have been otherwise eliminated; or*
2. *the container is very small such as an ampule; or*
3. *the container is designed to hold free liquids for use other than storage, such as a battery or capacitor; or*
4. *the container is a lab pack as defined in LAC 33:V.109 and is disposed of in accordance with LAC 33:V.2519.*

D. *To demonstrate the absence or presence of free liquids in either a containerized or a bulk waste, the following test must be used: Method 9095 (Paint Filter Liquids Test) as described in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference at LAC 33:V.110.*

E. *Effective November 8, 1985, the placement of any liquid which is not a hazardous waste in a landfill is prohibited unless the owner or operator of such landfill demonstrates to the administrative authority, or the administrative authority determines, that:*

1. *the only reasonably available alternative to the placement in such landfill is placement in a landfill or unlined surface impoundment, whether or not permitted or operating under interim status, which contains, or may reasonably be anticipated to contain, hazardous waste; and*
2. *placement in such owner's or operator's landfill will not present a risk of contamination of any underground source of drinking water or groundwater (as these terms are defined in LAC 33:V.109).*

F. Sorbents used to treat free liquids to be disposed of in landfills must be nonbiodegradable. Nonbiodegradable sorbents are: materials listed or described in LAC 33:V.2515.F; materials that pass one of the tests in LAC 33:V.2515.F.2; or materials that are determined by the administrative authority to be nonbiodegradable through the petition process in LAC 33:I.Chapter 9.

1. *Nonbiodegradable Sorbents*

   a. *Inorganic minerals, other inorganic materials, and elemental carbon, such as aluminosilicates, clays, smectites, Fuller's earth, bentonite, calcium bentonite, montmorillonite, calcined montmorillonite, kaolinite, micas (illite), vermiculites, zeolites; calcium carbonate (organic free limestone); oxides/hydroxides, alumina, lime, silica (sand), diatomaceous earth; perlite (volcanic glass); expanded volcanic rock; volcanic ash; cement kiln dust; fly ash; rice hull ash; activated charcoal/activated carbon; or*

   b. *high molecular weight synthetic polymers, such as polyethylene, high density polyethylene (HDPE), polypropylene, polystyrene, polyurethane, polyacrylate, polynorborene, polyisobutylene, ground synthetic rubber, cross-linked allylstyrene and tertiary butyl copolymers. This does not include polymers derived from biological material or polymers specifically designed to be degradable; or*

   c. *mixtures of these nonbiodegradable materials.*

2. *Tests for Nonbiodegradable Sorbents*

   a. *The sorbent material is determined to be nonbiodegradable under ASTM Method G21-70 (1984a)-Standard Practice for Determining Resistance of Synthetic Polymer Materials to Fungi.*

   b. *The sorbent material is determined to be nonbiodegradable under ASTM Method G22-76 (1984b)-Standard Practice for Determining Resistance of Plastics to Bacteria.*

   c. *The sorbent material is determined to be nonbiodegradable under OECD test 301B: [CO_2 Evolution (Modified Sturm Test)].*

   d. *Effective April 20, 1998, the placement of any liquid which is not a hazardous waste in a landfill is prohibited unless the owner or operator of such landfill demonstrates to the administrative authority, or the administrative authority determines, that:*

      i. *the only reasonably available alternative to the placement in such landfill is placement in a landfill or unlined surface impoundment, whether or not permitted or operating under interim status, which contains, or may reasonably be anticipated to contain, hazardous waste; and*

      ii. *placement in such owner's or operator's landfill will not present a risk of contamination of any underground source of drinking water (as that term is defined in LAC 33:V.109.)*

Landfill Cell 717 is closed and undergoing post-closure care in accordance with the post-closure permit. The special requirements for bulk and containerized liquid wastes in LAC 33:V.2515 are not applicable for this post-closure permit renewal application.

2517. Special Requirements for Containers

A. Unless they are very small, such as an ampule, containers must be either:

1. at least 90 percent full when placed in the landfill; or

2. emptied and crushed flat, shredded, or similarly reduced in volume to the maximum practical extent before burial in the landfill.

Landfill Cell 717 is closed and undergoing post-closure care in accordance with the post-closure permit. The special requirements for containers in LAC 33:V.2517 are not applicable for this post-closure permit renewal application.

2519. Disposal of Small Containers of Hazardous Waste in Overpacked Drums (Lab Packs)

A. Lab packs may be placed in a landfill if the following requirements are met:

1. hazardous waste must be packaged in non-leaking inside containers. The inside containers must be designed and constructed of a material that will not react dangerously with, be decomposed by, or be ignited by the contained waste. Inside containers must be tightly and securely sealed. The inside containers must be of the size and type specified in the Louisiana Department of Public Safety (LDPS) hazardous materials/hazardous waste regulations LAC 33:V.Subpart 2.Chapter 101 if those regulations specify a particular inside container for the waste;

2. the inside containers must be overpacked in an open head LDPS specification metal shipping container LAC 33:V.Subpart 2.Chapter 101 of no more than 416-liter (110-gallon) capacity and surrounded by, at a minimum, a sufficient quantity of sorbent material to completely sorb all of the liquid contents of the inside containers. The metal outer container must be full after packing with inside containers and sorbent material;

3. the sorbent material used must not be capable of reacting dangerously with, being decomposed by, or being ignited by the contents of the inside containers in accordance with LAC 33:V.1517;

4. incompatible wastes, as defined in LAC 33:V.109, must not be placed in the same outside container;

5. reactive wastes, other than cyanide- or sulfide-bearing waste, as defined in LAC 33:V.109, must be treated or rendered non-reactive prior to packaging in accordance with LAC 33:V.2519.A, B, C, D and F. Cyanide- and sulfide-

bearing reactive waste may be packed in accordance with LAC 33:V.2519.A, B, C, D and F without first being treated or rendered non-reactive; and

6. *such disposal is in compliance with the requirements of LAC 33:V.Chapter 22. Persons who incinerate lab packs according to the requirements in LAC 33:V.2227.C.1 may use fiber drums in place of metal outer containers. Such fiber drums must meet the LDPS specifications in LAC 33:V.Subpart 2.Chapter 101, and be overpacked according to the requirements in Subsection B of this Section.*

Landfill Cell 717 is closed and undergoing post-closure care in accordance with the post-closure permit. The special requirements for the disposal of small containers of hazardous waste in overpacked drums (Lab Packs) in LAC 33:V.2519 are not applicable for this post-closure permit renewal application.

2521. Closure and Post-closure Care

A. *At final closure of the landfill or upon closure of any cell, the owner or operator must cover the landfill or cell with a final cover designed and constructed to:*

1. *provide long-term minimization of migration of liquids through the closed landfill;*
2. *function with minimum maintenance;*
3. *promote drainage and minimize erosion or abrasion of the cover;*
4. *accommodate settling and subsidence so that the cover's integrity is maintained; and*
5. *have a permeability less than or equal to the permeability of any bottom liner system or natural subsoils present.*

Landfill Cell 717 has been closed and is currently undergoing post-closure care monitoring. The LDEQ-approved final cover was designed and constructed to meet the performance standards required at that time. Details on the final cover, which has been provided previously, are included in the Post-Closure Plan in Appendix B and Certification documents in Appendix L. The final cover meets the requirements of LAC 33:V.2521.A.

B. *After final closure, the owner or operator must comply with all post-closure requirements contained in LAC 33:V.3519-3527, including maintenance and monitoring throughout the post-closure care period (specified in the permit under LAC 33:V.3521.A.1). The owner or operator must:*

1. *maintain the integrity and effectiveness of the final cover, including making repairs to the cap as necessary to correct the effects of settling, subsidence, erosion, or other events;*

2. *maintain and monitor the leak detection system in accordance with LAC 33:V.2503.L.4.d, 2503.L.5, and 2507.D, where such a system is present between double liner systems and comply with all other applicable leak detection system requirements of LAC 33:V.Subpart 1;*
3. *continue to operate the leachate collection and removal system until leachate is no longer detected;*
4. *maintain and monitor the groundwater monitoring system and comply with all other applicable requirements of LAC 33:V.Chapter 33;*
5. *prevent run-on and run-off from eroding or otherwise damaging the final cover; and*
6. *protect and maintain surveyed benchmarks used in complying with LAC 33:V.Chapter 33.*

During post-closure care of Landfill Cell 717, the Facility will comply with all post-closure requirements contained in LAC 33:V.3519-3527, including maintenance and monitoring throughout the post-closure care period. The Facility will maintain the integrity and effectiveness of the final cover, maintain and monitor the leak detection system in accordance with LAC 33:V.2503.L.4.d, 2503.L.5, and 2507.D, continue to operate the leachate collection and removal system until leachate is no longer detected, maintain and monitor the groundwater monitoring system and comply with all other applicable requirements of LAC 33:V.Chapter 33, prevent run-on and run-off from eroding or otherwise damaging the final cover, and protect and maintain surveyed benchmarks used in complying with LAC 33:V.Chapter 33. The Facility will use the procedures outlined in the post-closure plan in Appendix B and the post-closure inspection plan in Appendix H to accomplish the requirements of LAC 33:V.2521.B.

C. *During the post-closure care period, if liquid leaks into a leak detection system installed under LAC 33:V.3305, the owner or operator must notify the Office of Environmental Assessment, Environmental Technology Division of the leak in writing within seven days after detecting the leak.*

Landfill Cell 717 was designed and permitted before formal Response Action Plans were required by LAC 33:V.2508. In addition, this landfill cell has been closed and is in its tenth year of post-closure care monitoring. There has been no evidence of any releases and leakage from this landfill cell during the current post-closure care period. However, during post-closure and as part of this post-closure permit renewal application, the Facility proposes to continue monitoring and inspection of the leak detection system routine inspections. In the event it is determined that a leak as defined by this criteria has occurred, the Facility will

notify the LDEQ, Office of Environmental Assessment, Environmental Technology Division in writing within seven days.

2523. Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026, and F027

A. Hazardous Wastes F020, F021, F022, F023, F026, and F027 must not be placed in a landfill unless the owner or operator operates the landfill in accordance with a management plan for these wastes which is approved by the administrative authority pursuant to the standards set out in this Subsection, and in accordance with all other applicable requirements of LAC 33:V.Chapters 9, 15, 17, 19, 21, 23, 25, 27, 28, 29, 31, 32, 33, 35, and 37. The factors to be considered are:

1. the volume, physical and chemical characteristics of the wastes, including their potential to migrate through the soil or to volatilize or escape into the atmosphere;

2. the attenuative properties of underlying and surrounding soils or other materials;

3. the mobilizing properties of other materials codisposed with these wastes; and

4. the effectiveness of additional treatment, design or monitoring requirements.

B. The administrative authority may determine that additional design, operating and monitoring requirements are necessary for landfills containing hazardous wastes F020, F021, F022, F023, F026, and F027 in order to reduce the possibility of migration of these wastes to groundwater, surface water, or air so as to protect human health and the environment.

Landfill Cell 717 is closed and undergoing post-closure care in accordance with the post-closure permit. The special requirements for Hazardous Wastes F020, F021, F022, F023, F026, and F027 in LAC 33:V.2523 are not applicable for this post-closure permit renewal application.

Chapter 33

Ground Water Protection

3301. Applicability

A. Except as provided in LAC 33:V.3301.C, the regulations in this Chapter apply to owners or operators of facilities that treat, store or dispose of hazardous waste. The owner or operator must satisfy the requirements identified in LAC 33:V.3301.B for all wastes (or constituents thereof) contained in solid waste management units at the facility, regardless of the time at which waste was placed in such units.

Based upon the criterion of LAC 33:V.3301.A, the provisions of Chapter 33 apply to the Clean Harbors Baton Rouge, LLC facility (the Facility) including closed Landfill Cell 717. The Facility will satisfy the requirements identified in LAC 33:V.3301.B for all wastes (or constituents thereof) contained in the solid waste management units at the facility, regardless of the time at which waste was placed in such units.

B. All solid waste management units must comply with the requirements in LAC 33:V.3322. A surface impoundment, waste pile, and land treatment unit or landfill that receives hazardous waste after July 26, 1982 (hereinafter referred to as a "regulated unit") must comply with the requirements of LAC 33:V.3303-LAC 33:V.3321 in lieu of LAC 33:V.3322 for purposes of detecting, characterizing and responding to releases to the uppermost aquifer. The financial responsibility requirements of LAC 33:V.3322 apply to regulated units.

The Facility complies with the requirements of LAC 33:V.3322 for purposes of detecting, characterizing, and responding to releases to the uppermost aquifer. Closed Landfill Cell 717 meets the requirements of LAC 33:V.3303-LAC 33:V.3321.

C. The owner or operator's regulated unit or units are not subject to regulation for releases into the uppermost aquifer under this Chapter if:

1. the owner or operator is exempted under LAC 33:V.1501; or

2. he operates a unit which the administrative authority finds:

a. is an engineered structure;

b. does not receive or contain liquid waste or waste containing free liquids;

c. is designed and operated to exclude liquid, precipitation, and other run-on and run-off;

d. has both inner and outer layers of containment enclosing the waste;

e. has a leak detection system built into each containment layer;

f. the owner or operator will provide continuing operation and maintenance of these leak detection systems during the active life of the unit and the closure and post-closure care periods; and

g. to a reasonable degree of certainty, will not allow hazardous constituents to migrate beyond the outer containment layer prior to the end of the post-closure care period;

3. the administrative authority finds, pursuant to LAC 33:V.2719.D, that the treatment zone of a land treatment unit that qualifies as a regulated unit does not contain levels of hazardous constituents that are above background levels of those constituents by an amount that is statistically significant, and if an unsaturated zone monitoring program meeting the requirements of LAC 33:V.2711 has not shown a statistically significant increase in hazardous constituents below the treatment zone during the operating life of the unit. An exemption under LAC 33:V.3301.C can only relieve an owner or operator of responsibility to meet the requirements of this Chapter during the post-closure care period; or

4. the administrative authority finds that there is no potential for migration of liquid from a regulated unit to the uppermost aquifer during the active life of the regulated unit (including the closure period) and the post-closure care period specified under LAC 33:V.3521. This demonstration must be certified by a qualified geologist or geotechnical engineer. In order to provide an adequate margin of safety in the prediction of potential migration of liquid, the owner or operator must base any predictions made under LAC 33:V.3301.C on assumptions that maximize the rate of liquid migration;

5. he designs and operates a pile in compliance with LAC 33:V.2301.C.

The Facility is not requesting an exemption from the requirements of Chapter 33 under subsection LAC 33:V.3301.C.

D. The regulations under this Chapter apply during the active life of the regulated unit (including the closure period). After closure of the regulated unit, the regulations in this Subpart:

1. do not apply if all waste, waste residues, contaminated containment system components, and contaminated subsoils are removed or decontaminated at closure;

2. apply during the post-closure care period under LAC 33:V.Chapter 35, Subchapter B post-closure requirements if the owner or operator is conducting a detection monitoring program under LAC 33:V.3317;

3. apply during the compliance period under LAC 33:V.3313 if the owner or operator is conducting a compliance monitoring program under LAC 33:V.3319 or a corrective action program under LAC 33:V.3321.

Based upon the criteria of LAC 33:V.3301.D.2 and D.3, the regulations of Chapter 33 apply to the Facility and closed Landfill Cell 717 area.

E. Regulations in this Chapter may apply to miscellaneous units when necessary to comply with LAC 33:V.3203-3207.

This post-closure permit renewal application is for closed Landfill Cell 717 and does not include any miscellaneous units. Therefore, the provisions of LAC 33:V.3203-3207 are not applicable for this post-closure permit renewal application.

F. *The regulations of this Chapter apply to all owners and operators subject to the requirements of LAC 33:V.305.H when the department issues either a post-closure permit or an enforceable document (as defined in LAC 33:V.305.H).at the facility. When the department issues an enforceable document, references in this Chapter to "in the permit" mean "in the enforceable document."*

This application is a post-closure permit renewal application for closed Landfill Cell 717. As stated above, the regulations of Chapter 33 are applicable for this permit renewal application.

G. The administrative authority may replace all or part of the requirements of this Chapter applying to a regulated unit with alternative requirements for groundwater monitoring and corrective action for releases to groundwater set out in the permit (or in an enforceable document as defined in LAC 33:V.305.H) where the administrative authority determines that:

1. *the regulated unit is situated among solid waste management units (or areas of concern), a release has occurred, and both the regulated unit and one or more solid waste management unit(s) (or areas of concern) are likely to have contributed to the release; and*
2. *it is not necessary to apply the groundwater monitoring and corrective action requirements of this Chapter because alternative requirements will protect human health and the environment.*

The Facility acknowledges the authority the LDEQ has under LAC 33:V.3301.G to replace all or part of the requirements of Chapter 33 with alternate requirements where necessary. However, the Facility and closed Landfill Cell 717 currently have an ongoing groundwater compliance-monitoring program that meets the requirements of LAC 33:V.3315.A-H. This program is described in the RCRA Part B Permit LAD 010395127-P and Post-Closure Permits LAD 010395127-PC-1, PC-2 and PC-3. The groundwater program outlined in PC-3

currently supersedes the programs required in the other permits. The Facility also has an ongoing corrective action program as described in the response to LAC 33:V.517.T.4.f. The Facility proposes to modify the current groundwater-monitoring program. Attached in Appendix T is the justification for the proposed changes and a revised groundwater sampling and analysis plan reflecting these proposed changes. The proposed changes deal primarily with analytical testing and monitoring frequencies. The Facility has also proposed to discontinue sampling of several offsite-monitoring wells that have adequate upgradient wells to monitor this area of the Facility.

3303. Required Programs

A. Owners and operators subject to this Chapter must conduct a monitoring and response program as follows.

1. Whenever hazardous constituents under LAC 33:V.3307 from a regulated unit are detected at the compliance point under LAC 33:V.3311, the owner or operator must institute a compliance monitoring program under LAC 33:V.3319. "Detected" is defined as statistically significant evidence of contamination as described in LAC 33:V.3317.F.

The presence of hazardous constituents has been detected in the groundwater at the point of compliance. There is no evidence that these constituents can be attributed to closed Landfill Cell 717. The Facility has established a groundwater compliance monitoring program that meets the requirements of LAC 33:V.3315 and 3319. This program is also being used to monitor the closed Landfill Cell 717 area. This ongoing program has been described in the Facility's RCRA Part B Permit LAD010395127-P and Post-Closure Permits LAD 010395127-PC-1 through PC-3. The requirements outlined in PC-3 supersede the requirements of the other permits. These requirements are described in Appendix A of the 2007 Annual Groundwater Monitoring Report in Appendix F of this post-closure permit renewal application. The Facility proposes to continue with the ongoing groundwater compliance monitoring program including the proposed changes outlined in the justification and revised sampling and analysis plan in Appendix T for this post-closure permit renewal application. The proposed changes to the analytical testing and monitoring frequencies are based on the results of our extensive historical database. The current compliance-monitoring program including the proposed changes is a more extensive monitoring program than would be required or used in a detection-monitoring program. The hazardous constituents described in Table 1 of LAC 33:V.3307 are included in the analytical testing currently done at the Facility and in the closed Landfill Cell 717 area. In the event, these hazardous constituents are detected in the monitoring wells downgradient of closed Landfill Cell 717 and can be attributed to this unit, the Facility will modify the current compliance monitoring program in accordance with LAC 33:V.3303.

2. *Whenever the ground water protection standard under LAC 33:V.3305 is exceeded, the owner or operator must institute a corrective action program under LAC 33:V.3321. "Exceeded" is defined as statistically significant evidence of increased contamination as described in LAC 33:V.3319.D.*

Whenever the groundwater protection standard under LAC 33:V.3305 is exceeded as described in LAC 33:V.3319.D, the Facility will institute a corrective action program in accordance with LAC 33:V.3321. As a result of exceedences detected in the groundwater, corrective action was first initiated at the Facility in 1981. These detections were prior to the construction and startup of Landfill Cell 717. None of the groundwater contamination detected to date has been attributed to closed Landfill Cell 717. The current corrective action program is approved by the LDEQ and complies with the requirements of LAC 33:V.3321. The current corrective action program is described in the 2007 Annual Groundwater Monitoring Report in Appendix F.

Additional corrective actions, which include groundwater recovery, capping, etc., have also been proposed as part of the detailed Risk Assessment and Draft Corrective Measures Study (CMS) and subsequent CMS Addendum(s) submitted to the LDEQ in December 2, 1993, July 31, 1995, and August 24,1998, respectively. The CMS was submitted in fulfillment of Section F and Tasks VII through X of the Facility's HSWA Permit and Administrative Order on Consent, EPA Docket No. VI-004-(h)-88-H. The LDEQ has reviewed and concurs that the proposed Corrective Measures will provide overall protection of human health and the environment, a means to attain media cleanup standards for soil and groundwater (RECAP Screening Standards), a means to control the sources of the releases, and are in compliance with standards for management of wastes, as applicable (see copies of LDEQ letter dated October 1, 1998 and June 30, 2003 in Appendix J). The LDEQ issued an Administrative Order on December 3, 2003 (Appendix J) that provides a schedule for implementing the Corrective Measures Work Phases. The Facility submitted the Corrective Measures Implementation Workplan (CMIWP) on March 1, 2008 and is awaiting LDEQ review and approval. Following approval, the implementation of the CMIWP will be the next step in the CMS process.

The Facility proposes to continue using the corrective action programs including proposed changes described above to meet the requirements of LAC 33:V.3321 and this post-closure permit renewal application.

3. *Whenever hazardous constituents under LAC 33:V.3307 from a regulated unit exceed concentration limits under LAC 33:V.3309 in ground water between the compliance point under LAC 33:V.3311 and the downgradient facility property boundary, the owner or operator must institute a corrective action program under LAC 33:V.3321.*

As described above in the response to LAC 33:V.3303.A.2, the Facility has instituted a corrective action program in accordance LAC 33:V.3321. None of the groundwater contamination detected to date has been attributed to closed Landfill Cell 717. The Facility proposes to continue using the corrective action programs described above for this post-closure permit renewal application to meet the requirements LAC 33:V.3321.

4. *In all other cases, the owner or operator must institute a detection monitoring program under LAC 33:V.3317.*

Since the Facility is in compliance monitoring, this requirement is currently not applicable to the Facility and this post-closure permit renewal application.

B. *The administrative authority will specify in the facility permit the specific elements of the monitoring and response program. The administrative authority may include one or more of the programs identified in LAC 33:V.3303.A in the facility permit as may be necessary to protect human health and the environment. The administrative authority will specify the circumstances under which each of the programs will be required. In deciding whether to require the owner or operator to be prepared to institute a particular program, the administrative authority will consider the potential adverse effects on human health and the environment that might occur before final administrative action on a permit modification application to incorporate such a program could be taken.*

The current groundwater monitoring and corrective action programs at the Facility are specified in the RCRA Part B Permit LAD010395127-P and Post-Closure Permits LAD010395127-PC-1, LAD010395127-PC-2, and LAD010395127-PC-3 for Landfill Cells 901, 902 and 717, respectively. The Facility proposes to continue using the programs described in PC-3 and the 2007 Annual Groundwater Monitoring Report in Appendix F and the proposed changes in Appendix T of this post-closure permit renewal application.

It is the opinion of the Facility that future modifications to the groundwater monitoring and corrective action programs will not substantially alter the permit conditions or reduce the capacity of the facility to protect human health and the environment. Therefore, such modifications should be considered minor changes to the permit as defined by LAC 33:V:321.C.4.b.i. Consequently, it is proposed, as a condition for the post-closure permit to be issued in response to this application, that future alterations to the groundwater monitoring and corrective action programs at the facility be considered Class 1[1] modifications. Class 1[1]

modifications may be made provided the facility complies with LAC 33:V:321.C.1.a and LAC 33:V:321.C.1.b.

C. *In addition, all permitted facilities where pre-existing ground water contamination continues to be present shall be required to institute compliance monitoring as required in LAC 33:V.3319 of this Chapter and corrective action programs as required in LAC 33:V.3321 of this Chapter. In no case shall free phase or mobile hazardous constituents be unmitigated. Hazardous constituents shall be isolated, reduced or stabilized consistent with the application of good engineering practices and best practical technology.*

Reference is made to the responses to §3303.A.1 and §3303.A.2. The Facility currently has a LDEQ approved compliance monitoring and corrective action programs in effect which comply with LAC 33:V.3319 and LAC 33:V.3321. The Facility proposes to continue using these programs including the proposed changes in Appendix T to meet the requirements of this LAC 33:V.3303.C for this post-closure permit renewal application.

D. *All permits for facilities with pre-existing ground water contamination shall contain a permit condition containing the concentration limits of hazardous constituents established consistent with LAC 33:V.3305, 3307, and 3309. In no case shall other than background concentration limits be listed in the initial permit. Compliance with corrective action programs required in LAC 33:V.3303, 3319, and 3321 will constitute a permitted variance. Corrective action programs shall be reviewed annually and may be based on predictive computer modeling. Alternate concentrations provided in LAC 33:V.3309.A or B may be set by permit amendment should the original concentration limits be unattainable within 36 months.*

The current groundwater compliance monitoring and corrective action programs at the Facility are conditions of the permits currently in effect: RCRA Part B Permit LAD010395127-P and Post-Closure Permits LAD010395127-PC-1, LAD010395127-PC-2, and LAD010395127-PC-3 for Landfill Cells 901, 902 and 717, respectively. The current facility permits (RCRA and Post-Closure LAD 010395127-P, PC-1, PC-2, and PC-3) have set the groundwater protection standard for the monitored LAC 33:V.3325. Table 4 list of constituents as the Method Detection Limits (MDL), established in "Test Methods for Evaluating Solid Waste Physical/Chemical Methods, 3rd Ed." (EPA Publication Number SW-846, 1986 as amended), or approved equivalent. A reproduction of this table is provided in Appendix B of the revised Groundwater Sampling and Analysis (attached in Appendix T of this document). This table includes the Practical Quantitation Limits in ug/L for the various constituents. The sample data sheets (Severn Trent/Test America in Boulder, Colorado LELAP) provided in Appendix B of the 2007 Annual Groundwater Report (Appendix F, attached) lists the current Reporting Limits (RLs) in ug/L for LAC 33:V.3325. Table 4 list of

constituents. These RLs are at or above the MDLs. The MDLs are determined experimentally and can vary for a given method and matrix. Also attached in Appendix T of this document is Table 1 showing the LAC 33:V.3325. Table 4 list of constituents with the currently used SW-846 test methods and MDLs provided by SevernTrent/Test America of Boulder, Colorado. The Facility proposes to continue using these programs including the proposed changes in Appendix T to meet the requirements of this subsection for this post-closure permit renewal application.

As a condition of the permit to be issued in response to this application, it is proposed that the corrective action program be reviewed annually in conjunction with preparation of the Annual Groundwater Monitoring Report (as now required by the Permits currently in effect). Further, it is proposed that, for the purposes of the permit to be issued, changes to the corrective action program be considered Class 1[1] modifications as described in the response to LAC 33:V.3303.B above.

3305. Ground Water Protection Standard

A. *The owner or operator must comply with conditions specified in the facility permit that are designed to ensure that hazardous constituents under LAC 33:V.3307 detected (as defined in LAC 33:V.3303.A.1) in the ground water from a regulated unit do not exceed the concentration limits under LAC 33:V.3309 in the uppermost aquifer underlying the waste management area beyond the point of compliance under LAC 33:V.3311 during the compliance period under LAC 33:V.3313. The administrative authority will establish this ground water protection standard in the facility permit when hazardous constituents have been detected (as defined in LAC 33:V.3303.A.1) in the ground water.*

The current facility permits (RCRA and Post-Closure LAD 010395127-P, PC-1, PC-2, and PC-3) have set the groundwater protection standard for the monitored LAC 33:V.3325. Table 4 list of constituents as the Method Detection Limits (MDL), established in "Test Methods for Evaluating Solid Waste Physical/Chemical Methods, 3rd Ed." (EPA Publication Number SW-846, 1986 as amended), or approved equivalent. No changes are proposed at this time. Attached in Appendix T of this document is Table 1 showing the LAC 33:V.3325. Table 4 list of constituents with the currently used SW-846 test method and MDLs provided by SevernTrent/Test America of Boulder, Colorado. As allowed by LAC 33:V.3303.D, alternate concentrations maybe proposed during the annual review of the corrective action programs annual reviews based on predictive computer modeling. Alternate concentrations provided in LAC 33:V.3309.A. or B. maybe set by a permit modification should the original concentration limits be unattainable within 36 months. The Facility reserves the right to petition for alternate concentrations in accordance with these regulations at a later date.

The Facility proposes to continue using the program described in PC-3 and proposed revisions to meet the requirements of LAC 33:V.3305 for this post-closure permit renewal application. The proposed revisions outlined in Appendix T of this renewal application do not include any changes to the Ground Water Protection Standard.

B. The ground water monitoring system shall consist of necessary wells, at least one hydraulically upgradient, to monitor ground water moving toward the facility, and all the necessary number of wells downgradient to monitor ground water leaving the facility. The wells shall be located to intercept contamination at the earliest possible occurrence. Well locations and completion depths must be selected to assure that all probable contaminant flow-paths are monitored. The wells shall be cased, and the casings shall be adequately sealed so that contaminants cannot be introduced from the surface or from one aquifer to another within the well bore, and so that only one water bearing sand is sampled per well. The entire ground water monitoring system must be approved by the administrative authority.

The Facility currently operates a groundwater compliance monitoring system in accordance with LAC 33:V.3305.B. Groundwater monitoring has been ongoing at the Facility since the early 1980's. The groundwater monitoring system has been expanded over the years as a result of investigation activities associated with RCRA permitting, 3008(h) Order, LDEQ Compliance Orders, and groundwater monitoring and corrective action activities. The LDEQ and EPA have approved all of the monitoring well locations. As required by the current RCRA and Post-Closure Permits (LAD 010395127-P, PC-1, PC-2, and PC-3), the Facility currently has a compliance-monitoring program. The current groundwater monitoring and corrective action system consists of a facility-wide groundwater-monitoring network monitoring four permeable units in the upper 150 feet of the site [Unit 3/A Zone (30-45 feet below NGS), Unit 4/B-1 Zone (45-60 feet below NGS), Unit 6/B-2 Zone (60-90 feet below NGS), and Unit 8/C Zone (100-125 feet below NGS)]. Individual operating units are not monitored separately. The groundwater monitoring system is shown on Figures 2 through 7 in Appendix C and the 2007 Annual Groundwater Monitoring Report in Appendix F. The Facility monitoring system consists of 39 Compliance Point Wells, 22 Upgradient Compliance Wells, 108 Downgradient Compliance Wells, 23 Corrective Action Wells, and 40 Piezometers. As shown on these figures and required by LAC 33:V.3305.B, the Facility has at least one hydraulically upgradient well in the 4 permeable units/zones to monitor water moving toward the Facility, and all of the necessary number of wells downgradient to monitor groundwater leaving the Facility and from the current/proposed operating units as well as the closed units at the site. The wells are placed at locations and depths to assure that all probable flow-paths are being monitored. These locations and depths were based on extensive subsurface investigations (over 500 borings). All wells are cased and sealed to prevent contaminants from being

introduced from the surface or from one permeable unit to another. The well installation work was done in accordance with guidelines of the "Handbook for Construction of Geotechnical Boreholes and Groundwater Monitoring Systems" prepared by the LDEQ/LDOTD. Construction details for all of the wells are summarized in Appendix E of the 2007 Annual Groundwater Monitoring Report in Appendix F of this post-closure permit renewal document.

The facility proposes using the existing groundwater compliance monitoring system with the changes described in Appendix T to meet the requirements of LAC 33:V.3305 for this post-closure permit renewal application. The Facility has proposed to discontinue sampling of several offsite-monitoring wells that have adequate upgradient wells to monitor this area of the Facility.

C. The owner or operator of the facility shall develop and adhere to a ground water sampling and analysis plan, and shall immediately advise the department when significant changes in ground water quality are determined and verified.

A summary of the current LDEQ-approved sampling and analysis plan is found in the response to LAC 33:V.520.E. Table VI-1REV of the Landfill Cell 717 Post-Closure Permit LAD 010 395 127-PC-3 lists the sampling frequency and testing requirements for all of the wells in the groundwater monitoring network. These requirements have superseded the RCRA Part B Permit and the closed Landfill Cells 901 and 902 Post-Closure Permits (PC-1 & PC-2) and were implemented during 1999. Post-Closure Permit PC-3 resulted in uniform permit requirements for groundwater at the site. For this post-closure permit renewal application, we are proposing to continue with the groundwater compliance monitoring program outlined in Post-Closure Permit PC-3 including the proposed changes in Appendix T of this post-closure permit renewal application. A revised groundwater sampling and analyses plan outlining these proposed changes is provided in Appendix T. This revised plan reflects proposed changes in sampling frequencies and analyte lists. Also attached in front of this plan is a document that provides justification by using the historical hydrochemical database that consists of over 1,170,000 analytical records generated from collection of over 13,300 samples collected since the early 1980's. In summary, the proposed modifications include the following:

- **Modification of the schedule for collecting total well depth measurements from biennially to triennially,**
- **Modification of the schedule for collecting immiscible layer measurements from biennially to triennially,**
- **Modification in the sampling frequency for Louisiana Administrative Code LAC 33:V.3325 Table 4 parameters from semi-annual to triennial,**

- **Retain semi-annual sampling for VOCs,**
- **Discontinue as a permit requirement of the Facility the sampling of monitoring wells located on Greater Baton Rouge Port Commission property (AT-34, AT-35, AT-36, and AT-37), and**
- **Retain the option of using "Low Flow Purging and Sampling Protocols" as part of routine groundwater monitoring activities.**

Table 1, Appendix F, summarizes constituent groups analyzed in each well along with the analytical test methods that were used. Example analytical data sheets for the various constituent groups analyzed (i.e., VOCs, SVOCs, etc.) are presented in Appendix B of the 2007 Annual Groundwater Monitoring Report (Appendix F). These sheets provide a complete listing of the individual compounds included within each constituent group. Along with Table 1 in Appendix F, these sheets provide a complete summary of the analytical testing currently performed on each well. The revised tables reflected the proposed changes to the frequency and constituent groups are included in the justification and revised sampling and analyses plan in Appendix T.

D. Leachate

1. *The leachate monitoring system shall contain a method and device to secure samples, and determine leakage at two locations in each unit where the system is required as follows:*

   a. *at the low point inside the barrier (liner) encased in sand, or other porous material, ensuring that leachate from all contents will percolate to the low point. Provision for pumping out all leachate which gathers inside this barrier shall be made; and*

   b. *at a low point under the barrier (liner) and encased in a porous layer over a dense (at least three feet of clay at 1 x 10^{-7} cm/sec) underlayment, or natural soil, to verify the integrity of the liner.*

2. *The system shall permit sampling from an accessible surface location.*

3. *An equivalent system acceptable to the administrative authority may be installed in existing facilities.*

Closed Landfill Cell 717 has leachate and leak detection, collection, and removal systems, which comply with the provisions of LAC 33:V.3305.D. Details of these systems are provided in the Engineering Report in Appendix N. The cell was constructed with a recompacted clay bottom liner and a recompacted clay cap. The landfill has four (4) subcells equipped with twenty-seven (27) leachate collection risers and three (3) leachate detection and collection risers. The leachate collection risers are equipped with pumps and automatic float switches. The pumps are activated when the leachate level rises above the 1-foot level in the

riser pipes. The leak detection risers are also equipped with pumps that are operated manually. These risers are inspected at the frequency outlined in the inspection schedule in Appendix H and activated as needed. These systems will continue to be operated as needed during the next 10-year post-closure care period.

E. Air. Installed, or available portable air monitoring devices shall be located at all sites involving: incineration, landfill, or treatment facilities. An installed air monitoring system (triangular grid) with continuous recording shall be installed at all commercial sites.

The Facility has a perimeter air-monitoring system that meets the requirements of the Facility's Consolidated Air Permit #0840-00019-03. The Facility will maintain the existing perimeter air monitoring system to monitor conditions at the fence line of the facility.

F. Sampling. Samples shall be taken from all required monitoring systems before waste is introduced (for new sites) to provide adequate base-line data. Sampling shall be done quarterly, and complete records shall be maintained at the site for examination by the administrative authority.

Closed Landfill Cell 717 has been closed and is in its tenth year of post-closure care monitoring as required under Post-Closure Permits LAD 010395127-PC-3. Sampling of the groundwater compliance monitoring and landfill leachate collection and leak detection systems are done in accordance with the Facility RCRA Part B and Post-Closure Permits. The sampling programs and record keeping currently in use and the proposed changes are described in the groundwater report, justification and sampling and analysis plan documents, and inspection schedules in Appendices F, T, and H, respectively. The Facility proposes to use these same programs with the proposed changes for this post-closure permit renewal application.

3307. Hazardous Constituents

A. The administrative authority will specify in the facility permit the hazardous constituents to which the ground water protection standard of LAC 33:V.3305 applies. Hazardous constituents are constituents identified in Table 1 of LAC 33:V.Chapter 31 that have been detected in ground water in the uppermost aquifer underlying a regulated unit, and that are reasonably expected to be in or derived from waste contained in a regulated unit, unless the administrative authority has excluded them under LAC 33:V.3307.B.

The current facility permits (RCRA and Post-Closure LAD 010395127-P, PC-1, PC-2, and PC-3) have set the groundwater protection standard for the monitored LAC 33:V.3325. Table 4 list of constituents as the Method Detection Limits (MDL), established in "Test Methods for Evaluating Solid Waste Physical/Chemical Methods, 3rd Ed." (EPA Publication Number SW-846, 1986 as amended), or approved equivalent. A reproduction of this table is provided in Appendix B of the revised Groundwater Sampling and Analysis (attached in Appendix T of this document). This table includes the Practical Quantitation Limits in ug/L for the various constituents. The sample data sheets (Severn Trent/Test America in Boulder, Colorado LELAP) provided in Appendix B of the 2007 Annual Groundwater Report (Appendix F, attached) lists the current Reporting Limits (RLs) in ug/L for LAC 33:V.3325. Table 4 list of constituents. These RLs are at or above the MDLs. The MDLs are determined experimentally and can vary for a given method and matrix. Also attached in Appendix T of this document is Table 1 showing the LAC 33:V.3325. Table 4 list of constituents with the currently used SW-846 test methods and MDLs provided by SevernTrent/Test America of Boulder, Colorado. No changes to the current groundwater protection standard are being proposed by the Facility in this post-closure permit renewal application.

B. *The administrative authority upon sufficient demonstration by the permittee may exclude any Table 1, LAC 33:V.Chapter 31 constituents from the list of hazardous constituents specified in the facility permit if he finds that these constituents are not capable of posing a substantial present or potential hazard to human health or the environment. In deciding whether to grant an exemption, the administrative authority will consider the following:*

1. *potential adverse effects on ground water quality, considering:*
   - a. *the physical and chemical characteristics of the waste in the regulated unit, including its potential for migration;*
   - b. *the hydrogeological characteristics of the facility and surrounding land;*
   - c. *the quantity of ground water and the direction of ground water flow;*
   - d. *the proximity and withdrawal rates of ground water users;*
   - e. *the current and future uses of ground water in the area;*
   - f. *the existing quality of ground water including other sources of contamination, and their cumulative impact on the ground water quality;*
   - g. *the potential for health risks caused by human exposure to waste constituents;*
   - h. *the potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents; and*
   - i. *the persistence and permanence of the potential adverse effects; and*

2. *potential adverse effects on hydraulically-connected surface water quality, considering:*

   a. *the volume and physical and chemical characteristics of the waste in the regulated unit;*

   b. *the hydrogeological characteristics of the facility and surrounding land;*

   c. *the quantity and quality of ground water, and the direction of ground water flow;*

   d. *the patterns of rainfall in the region;*

   e. *the proximity of the regulated unit to surface waters;*

   f. *the current and future uses of surface waters and any waters in the area, and any water quality standards established for those surface waters;*

   g. *the existing quality of surface water, including other sources of contamination, and the cumulative impact on surface water quality;*

   h. *the potential for health risks caused by human exposure to waste constituents;*

   i. *the potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents; and*

   j. *the persistence and permanence of the potential adverse effects.*

The Facility currently proposes no changes to the list of hazardous constituents described in the response to LAC 33:V.3307.A, above for this post-closure permit renewal application. However, as described in the documents in Appendix T, the Facility is proposing changes to sampling frequencies. In the event the Facility requests an exemption from any of the hazardous constituents listed, sufficient demonstration that these constituents are not capable of posing a substantial present or potential hazard to the human health or the environment will be provided to the LDEQ in accordance with LAC 33:V.3307.B.

C. *In making any determination under LAC 33:V.3307.B of this Section about the use of ground water in the area around the facility, the administrative authority will consider any identification of underground sources of drinking water and exempted aquifers.*

Reference is made to the response to LAC 33:V.3307.B. The demonstration described in the response to LAC 33:V.3307.B will also include information on the groundwater use, identification of underground sources of drinking waster and exempted, aquifers located in the area of the Facility and closed Landfill Cell 717.

3309. Concentration Limits

A. The administrative authority will specify in the facility permit concentration limits in the groundwater for hazardous constituents established under LAC 33:V.3307. The concentration of a hazardous constituent:

1. must not exceed the background level of that constituent in the groundwater at the time that limit is specified in the permit; or

2. for any of the constituents listed in Table 1 of this Section, must not exceed the respective value given in that table if the background level of the constituent is below the value given; or

3. must not exceed an alternative limit established by the administrative authority under Subsection B of this Section.

Table 1. Maximum Concentration of Constituents for Ground Water Protection

Constituent	*Maximum Concentration*[1]
Arsenic	*0.05*
Barium	*1.0*
Cadmium	*0.01*
Chromium	*0.05*
Lead	*0.05*
Mercury	*0.002*
Selenium	*0.01*
Silver	*0.05*
Endrin (1,2,3,4,10,10-hexachloro-1,7-epoxy-1,4,4a,5,6,7,8,9a-octahydro-1, 4-endo-5, 8-demethano napthalene)	*0.0002*
Lindane (1,2,3,4,5,6-hexachlorocyclohexane, gamma isomer)	*0.004*
Methoxychlor (1,1,1-Trichloro-2, 2-bis) (p-methoxyphenylethane)	*0.01*
Toxaphene ($C_{10}H_{10}Cl_6$, Technical chlorinated camphene, 67-69 percent chlorine)	*0.005*
2,4-D (2,4-Dichlorophenoxyacetic acid)	*0.1*
2,4,5-TP Silvex (2,4,5-Trichlorophenoxypropionic acid)	*0.01*

[1] *Milligrams per liter*

Concentration limits for the Facility are established in the RCRA Part B Permit LAD010395127-P and Post-Closure Permits LAD010395127-PC-1, LAD010395127-PC-2, and LAD010395127-PC-3. This post-closure permit renewal application proposes no changes to the concentration limits at this time. Reference is made to the response to LAC 33:V.520.G.

B. The administrative authority may establish an alternate concentration limit for a hazardous constituent if he finds that the constituent will not pose a substantial

present or potential hazard to human health or the environment as long as the alternate concentration limit is not exceeded. The establishment of such alternative concentration limits shall be in accordance with LAC 33:I.Chapter 13. In establishing alternate concentration limits, the administrative authority will consider the following factors:

1. *potential adverse effects on groundwater quality, considering:*
   a. *the physical and chemical characteristics of the waste in the regulated unit, including its potential for migration;*
   b. *the hydrogeological characteristics of the facility and surrounding land;*
   c. *the quantity of groundwater and the direction of groundwater flow;*
   d. *the proximity and withdrawal rates of groundwater users;*
   e. *the current and future uses of groundwater in the area;*
   f. *the existing quality of groundwater, including other sources of contamination and their cumulative impact on the groundwater quality;*
   g. *the potential for health risks caused by human exposure to waste constituents;*
   h. *the potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents;*
   i. *the persistence and permanence of the potential adverse effects; and*
2. *potential adverse effects on hydraulically-connected surface water quality, considering:*
   a. *the volume and physical and chemical characteristics of the waste in the regulated unit;*
   b. *the hydrogeological characteristics of the facility and surrounding land;*
   c. *the quantity and quality of groundwater and the direction of groundwater flow;*
   d. *the patterns of rainfall in the region;*
   e. *the proximity of the regulated unit to surface waters;*
   f. *the current and future uses of surface waters in the area and any water quality standards established for those surface waters;*
   g. *the existing quality of surface water, including other sources of contamination and the cumulative impact on surface water quality;*
   h. *the potential for health risks caused by human exposure to waste constituents;*
   i. *the potential damage to wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents; and*
   j. *the persistence and permanence of the potential adverse effects.*

Reference is made to the responses to LAC 33:V.520.G and 3309.A. In the event the Facility proposes to establish alternate concentration limits for any of the hazardous constituents listed, sufficient demonstration that these constituents are not capable of posing a substantial present or potential hazard to the human health or the environment will be provided to the LDEQ in accordance with the criteria set forth in LAC 33:V.3309.B.

C. In making any determination under Subsection B of this Section about the use of groundwater in the area around the facility, the administrative authority will consider any identification of underground sources of drinking water and exempted aquifers identified in the permit application under LAC 33:V.Chapter 3. Any identification of underground sources of drinking water shall be in accordance with LAC 33:I.Chapter 13.

The Facility acknowledges that the LDEQ's authority under Subsection B of this Section regarding the use of groundwater in the area around the Facility. Reference is also made to the responses to LAC 33:V520.G, 3309.A and 3309.B.

3311. Point of Compliance

A. The administrative authority will specify in the facility permit the point of compliance at which the ground water protection standard of LAC 33:V.3305.A applies and at which monitoring must be conducted. The point of compliance is a vertical surface located at the hydraulically downgradient limit of the waste management area or the delineated zone of contamination that extends down into the uppermost aquifer underlying the regulated units or the delineated zone of contamination.

The "point of compliance" for the Facility has been defined in the RCRA Part B Permit LAD010395127-P and Post-Closure Permits LAD010395127-PC-1, LAD010395127-PC-2, and LAD010395127-PC-3. The "point of compliance" as defined under LAC 33:V.3311 is an imaginary line passing through the groundwater monitoring wells shown on Figures 2 and 2A of Appendix C and Figure 2 of the 2007 Annual Groundwater Monitoring Report in Appendix F. The scale of 1"=300' for Figures 2 and 2A in Appendix C was used due to the large size of the coverage area. This post-closure permit renewal application proposes no changes to the "point of compliance" at this time.

B. The waste management area is the limit projected in the horizontal plane of the area on which waste will be placed during the active life of a regulated unit.

1. The waste management area includes horizontal space taken up by any liner, dike, or other barrier designed to contain waste in a regulated unit.

2. *If the facility contains more than one regulated unit, the waste management area is described by an imaginary line circumscribing the several regulated units.*

The Facility has a groundwater compliance-monitoring network that includes the closed Landfill Cell 717 area. The groundwater compliance-monitoring network is not specific to closed Landfill Cell 717, but rather is a Facility-wide monitoring system. As required by LAC 33:V.3311.B.2, closed Landfill Cell 717 is located within the Facility "point of compliance" described above in the response to LAC 33:V.3311.A. No changes to the current "point of compliance" are proposed by the Facility in this post-closure permit renewal application.

3313. Compliance Period

A. *The administrative authority will specify in the facility permit the compliance period during which the ground water protection standard of LAC 33:V.3305 applies. The compliance period is the number of years equal to the active life of the waste management area (including any waste management activity prior to permitting, and the closure period.)*

The RCRA Part B Permit LAD 010395127-P specifies the compliance period, during which the groundwater protection standard of LAC 33:V.3305 applies, to be the number of years equal to the active life of the waste management area (including any waste management activity prior to permitting, and the closure period). Post-Closure Permits LAD 010395127-PC-1, PC-2, and PC-3 specifies the compliance period for Landfill Cells 901, 902 and 717, respectively to be the post-closure care period of 30 years. Closed Landfill Cell 717 is in its tenth year of post-closure care monitoring. The Facility assumes these compliance periods, which meets the requirements of LAC 33.V.3313.A apply to this post-closure permit renewal application.

B. *The compliance period begins when the owner or operator initiates a compliance monitoring program meeting the requirements of LAC 33:V.3319.*

The Facility is currently conducting a compliance monitoring program in accordance LAC 33:V.3319 and as required by the RCRA Part B Permit LAD 010395127-P and Post-Closure Permits LAD 010395127-PC-1, PC-2, and PC-3. The Facility assumes the compliance period described in LAC 33:V.3313.A would continue for this post-closure permit renewal application.

C. *If the owner or operator is engaged in a corrective action program at the end of the compliance period specified in Subsection A of this Section, the compliance period is extended until the owner or operator can demonstrate that the ground water*

protection standard of LAC 33:V.3305 has not been exceeded for a period of three consecutive years.

As described in the response to LAC 33:V.520.H, the Facility is currently engaged in a corrective action program. If the Facility is engaged in a corrective action program at the end of the compliance period, the RCRA Part B Permit LAD 010395127-P and Post-Closure Permits LAD 010395127-PC-1, PC-2, and PC-3 require the compliance period to be extended until the Facility can demonstrate the groundwater protection standard of LAC 33:V.3305 has not been exceeded for a period of three consecutive years. The Facility assumes this requirement would continue for this post-closure permit renewal application.

3315. General Ground Water Monitoring Requirements

NOTE: The owner or operator must comply with the following requirements for any ground water monitoring program developed to satisfy LAC 33:V.3317, 3319, or 3321.

A. The ground water monitoring system must consist of a sufficient number of wells, installed at appropriate locations and depths, to yield ground water samples from the uppermost aquifer that fulfill the following requirements.

1. The samples must represent the quality of ground water that has not been affected by leakage from a regulated unit. A determination of background quality may include sampling of wells that are not hydraulically upgradient of the waste management area where:

a. hydrogeologic conditions do not allow the owner or operator to determine which wells are hydraulically upgradient; and

b. sampling at other wells will provide an indication of background ground water quality that is representative or more representative than that provided by the upgradient wells.

The existing groundwater compliance monitoring system at the Facility is adequate to provide samples representing the quality of groundwater unaffected by leakage from regulated units including closed Landfill Cell 717 at the Facility. Figure 3 in Appendix C and in the 2007 Annual Groundwater Monitoring Report in Appendix F shows the location of hydraulically upgradient wells at the Facility. The scale of 1"=300' for Figure 3 in Appendix C was used due to the large size of the coverage area. The Facility proposes using this same groundwater compliance monitoring system to meets the requirements of LAC 33:V.3315.A and this post-closure permit renewal application. The Facility proposes to use the changes to the sampling and monitoring frequencies outlined in Appendix T for this upcoming post-closure period.

2. *The samples must represent the quality of water passing the point of compliance.*

The existing system of wells at the Facility is adequate to provide samples representative of groundwater passing the "point of compliance." Figures 2 and 2A of Appendix C and Figure 2 of the 2007 Annual Groundwater Monitoring Report in Appendix F shows the location of compliance-point wells. The Facility proposes using these same compliance point wells to meet the requirements of LAC 33:V.3315.A and this post-closure permit renewal application.

3. *The samples must allow for the detection (as defined in LAC 33:V.3303.A.1) of contamination when hazardous waste or hazardous constituents have migrated from the waste management area to the uppermost aquifer.*

Past experience has shown that the existing system of groundwater monitoring wells at the Facility is adequate for detection of contamination, as defined in LAC 33:V.3303.A.1, when hazardous waste or hazardous constituents have migrated from any of the waste management areas to the uppermost aquifer. The current system is described in Appendix F. The Facility proposes using this same groundwater compliance monitoring system including changes outlined in Appendix T to meet the requirements of LAC 33:V.3315.A and this post-closure permit renewal application.

B. *If a facility contains more than one regulated unit, separate ground water monitoring systems are not required for each regulated unit, if provisions for sampling the ground water in the uppermost aquifer will enable detection and measurement at the compliance point for hazardous constituents for the regulated units.*

The Facility does not have a separate groundwater monitoring system for each regulated unit. Rather the groundwater monitoring system was designed for sampling the groundwater in the uppermost aquifer at the compliance point of the Facility's hazardous waste management area. Closed Landfill Cell 717 is located within the area circumscribed by the "point of compliance" wells. The current system described in Appendix F is adequate to detect and measure at the point of compliance the release of hazardous constituents from the Facility's waste management units including closed Landfill Cell 717 areas. This system also meets the requirements of the current RCRA Part B Permit LAD 010395127-P and Post-Closure Permits LAD 010395127-PC-1, PC-2 and PC-3 for groundwater monitoring. The Facility proposes to continue using the existing groundwater monitoring system including the changes in Appendix T for this post-closure permit renewal application. The Facility has proposed to discontinue sampling of several offsite-monitoring wells that have adequate upgradient wells to monitor this area of the Facility.

C. All monitoring wells must be cased in a manner that maintains the integrity of the monitoring-well bore hole. This casing must be screened or perforated, and packed with gravel or sand, where necessary, to enable collection of ground water samples. The annular space (i.e., the space between the bore hole and well casing) above the sampling depth must be sealed to prevent contamination of samples and the ground water.

The existing monitoring wells at the Facility have been installed in accordance with LDEQ approved workplans and the requirements of LAC 33:V.3315.C. The construction details for all wells at the Facility are provided in Appendix E of the 2007 Annual Groundwater Monitoring Report in Appendix F. The Facility proposes to continue using the existing groundwater monitoring system including changes in Appendix T for this post-closure permit renewal application. The Facility has proposed to discontinue sampling of several offsite-monitoring wells that have adequate upgradient wells to monitor this area of the Facility.

D. The ground water monitoring program must include consistent sampling and analysis procedures that are designed to ensure monitoring results that provide a reliable indication of ground water quality below the waste management area. At a minimum, the program must include procedures and techniques for:

1. *sample collection;*
2. *sample preservation and shipment;*
3. *analytical procedures; and*
4. *chain of custody control.*

The current LDEQ-approved groundwater compliance monitoring program complies with the requirements of LAC 33:V.3315.D. Groundwater sampling and analytical testing are conducted semi-annually in accordance with the requirements of the RCRA Part B Permit LAD010395127-P, and Post-closure Permits LAD010395127-PC-1, LAD010395127-PC-2 and LAD010395127-PC-3 (Landfill Cells 901, 902, and 717, respectively). Sampling and analyses currently follows the procedures originally outlined in the Revised Sampling and Analysis Plan (SAP) submitted to LDEQ on April 8, 1993 (Revised 1995 and 1996), as required under Section II.E.21.m of the Final Modified Permit. The SAP provides procedures for sample collection, sample preservation and shipment, analytical testing, chain of custody control, parameters to be analyzed, and quality assurance/quality control for groundwater sampling and analysis. A revised sampling program was approved by LDEQ in August, 1998 (Post-Closure Permit LAD 010 395 127-PC-3), and is included as Table VI-1 in Appendix A of the 2007 Annual Groundwater Monitoring Report in Appendix F. The field and laboratory protocols presented in the SAP are consistent with procedures previously employed at the site. The Facility proposes

to revise the sampling and monitoring frequencies of the current groundwater compliance-monitoring program for this post-closure permit renewal application. The justification for these changes and a revised SAP is included in Appendix T.

E. The ground water monitoring program must include sampling and analytical methods that are appropriate for ground water sampling, and that accurately measure hazardous constituents in ground water samples.

The current LDEQ-approved groundwater sampling and analysis plan includes sampling and analytical methods that are appropriate for groundwater sampling and that accurately measure hazardous constituents in groundwater samples. The proposed revisions to the current sampling frequency and analytical testing parameter schedule are provided in Appendix T. All analytical testing is done by laboratories, which are LDEQ laboratory accreditation applicants, using USEPA SW-846 analytical methods and procedures. The Facility proposes using the revised groundwater sampling and analysis plan in Appendix T for this post-closure permit renewal application.

F. The ground water monitoring program must include a determination of the ground water surface elevation each time ground water is sampled.

As a component of the current LDEQ-approved sampling and analysis plan, the groundwater surface is accurately measured each time samples are taken. All monitoring wells have been accurately surveyed to determine the elevation of the top of casing for each well. Procedures for determining the groundwater surface elevations are described the LDEQ-approved SAP and in Section 3.1 of the 2007 Annual Groundwater Monitoring Report in Appendix F. The results of the groundwater surface elevation measurements are provided on Table 2 and Figures 8 through 15 in Appendix F. The proposed revisions to the SAP in Appendix T do not include any changes to the groundwater measurement procedures currently used.

G. In detection monitoring or where appropriate in compliance monitoring, data on each indicator parameter and on each hazardous constituent specified in the permit will be collected from background wells and wells at the compliance point(s). The number and kinds of samples collected to establish background shall be appropriate for the form of statistical test employed, following generally accepted statistical principles. The sample size shall be as large as necessary to ensure with reasonable confidence that a contaminant release to ground water from a facility will be detected. The owner or operator will determine an appropriate sampling procedure and interval for each hazardous constituent listed in the facility permit which shall be specified in the unit permit upon approval by the administrative authority. This sampling procedure shall be:

1. *a sequence of at least four samples, taken at an interval that assures, to the greatest extent technically feasible, that an independent sample is obtained, by reference to the uppermost aquifer's effective porosity, hydraulic conductivity, and hydraulic gradient, and the fate and transport characteristics of the potential contaminants; or*
2. *an alternate sampling procedure proposed by the owner or operator and approved by the administrative authority.*

The Facility has been conducting an LDEQ-approved groundwater compliance monitoring program since 1981. The Facility has an extensive historical data base of analytical test results from background and point of compliance monitor wells that are used in the statistical evaluation of historical trends described in the response below to LAC 33:V.3315.H. LDEQ-approved sampling procedures for background and point-of-compliance wells, including numbers and kinds of samples, are found in the SAP and Appendix A and B of the 2007 Annual Groundwater Monitoring Report (Appendix F). The current program meets the requirements of LAC 33:V.3315.G and ensures with reasonable confidence that a contaminant release to groundwater from the Facility including closed Landfill Cell 717 area will be detected. The proposed changes to this program outlined in Appendix T will also meet the requirements of LAC 33:V.3315.G. Justification for these changes is also included in Appendix T.

H. The owner or operator will specify one of the following statistical methods to be used in evaluating ground water monitoring data for each indicator parameter and hazardous constituent that, upon approval by the administrative authority, will be specified in the unit permit. The statistical test chosen shall be conducted separately for each indicator parameter and hazardous constituent in each well. Where practical quantification limits (PQLs) are used in any of the following statistical procedures to comply with LAC 33:V.3315.I.5, the PQL must be proposed by the owner or operator and approved by the administrative authority. Use of any of the following statistical methods must be protective of human health and the environment and must comply with the performance standards outlined in LAC 33:V.3315.I.

1. *A parametric analysis of variance (ANOVA) followed by multiple comparisons procedures to identify statistically significant evidence of contamination. The method must include estimation and testing of the contrasts between each compliance well's mean and the background mean levels for each constituent.*
2. *An analysis of variance (ANOVA) based on ranks followed by multiple comparisons procedures to identify statistically significant evidence of contamination. The method must include estimation and testing of the contrasts between each compliance well's median and the background median levels for each constituent.*

3. *A tolerance or prediction interval procedure in which an interval for each constituent is established from the distribution of the background data, and the level of each constituent in each compliance well is compared to the upper tolerance or prediction limit.*
4. *A control chart approach that gives control limits for each constituent.*
5. *Another statistical test method submitted by the owner or operator and approved by the administrative authority.*

As discussed in Section 4.2 (Historical Trends, page 17) of the 2007 Annual Groundwater Monitoring Report (Appendix F, attached), the currently approved compliance-monitoring program uses long and short-term trend analysis as the statistical method of for evaluating the Facility's groundwater data.

Total concentrations versus time graphs for each constituent group (i.e., total VOCs, total SVOCs, and total Pesticides/Herbicides) are generated semi-annual for each well with detected constituents in order to review long-term data trends. The concentration-versus-time graphs are included in Appendix F of each semi-annual and annual groundwater monitoring reports. A majority of the wells affected have demonstrated long-term decreases in concentration of VOCs, SVOCs, and Pesticides/Herbicides. Many of the wells with long-term increases have shown short-term decreases for the past several years.

For each graph, regression analyses were performed to calculate the equation of the "best fit" line through the data; the regression equation is presented at the bottom of each graph. The slope coefficient in the equation indicates the rate of change in concentration over time while its sign indicates the direction of change (positive for increasing and negative for decreasing). Since concentrations can vary over time by several orders of magnitude, the data were graphed on a semi-logarithmic scale in units of parts per billion (ppb). All values of non-detection are represented as 1 ppb due to the inability to graph zero on a logarithmic scale.

To provide an assessment of short-term trends, total concentrations for the various constituent groups detected within each well are compared to the previous sampling event (ex: during 2007 were compared to total concentrations detected during 2006). Changes in total VOC, SVOC, and Pesticide/Herbicide concentrations between sampling events are summarized in tables for each well (ex: 2007 reporting period are presented on Tables 6, 7, and 8, respectively). A negative value indicates a decrease from the previous sampling event while a positive value indicates an increase. The long- and short-term trends for each constituent group (i.e., total VOCs, SVOCs, and Pesticides/Herbicides) are summarized in each semi-annual and annual groundwater reports (ex: 2007 Sections 4.2.1 and 4.2.2). Long-term trends are also evaluated by reviewing the

historical trend graphs (Appendix F of 2007 Annual Groundwater Monitoring Report in Appendix F of this document). Short-term trends are evaluated by reviewing both the trend graphs and Tables 6, 7, and 8 of this same document. This evaluation is also described in the response to LAC 33:V.520.G.6. This approach has been used to satisfy the requirements of LAC 33:V.3315.H and the RCRA Part B Permit LAD 010395127-P and Post-Closure Permits LAD 010395127-PC-1, PC-2 and PC-3. No changes to the methods are proposed as part of this post-closure permit renewal application.

I. *Any statistical method chosen under LAC 33:V.3315.H for specification in the unit permit shall comply with the following performance standards, as appropriate.*

1. *The statistical method used to evaluate ground water monitoring data shall be appropriate for the distribution of chemical parameters or hazardous constituents. If the distribution of the chemical parameters or hazardous constituents is shown by the owner or operator to be inappropriate for a normal theory test, then the data should be transformed or a distribution-free theory test should be used. If the distributions for the constituents differ, more than one statistical method may be needed.*

2. *If an individual well comparison procedure is used to compare an individual compliance well constituent concentration with background constituent concentrations or a ground water protection standard, the test shall be done at a Type I error level no less than 0.01 for each testing period. If a multiple comparisons procedure is used, the Type I experimentwise error rate for each testing period shall be no less than 0.05; however, the Type I error of no less than 0.01 for individual well comparisons must be maintained. This performance standard does not apply to tolerance intervals, prediction intervals, or control charts.*

3. *If a control chart approach is used to evaluate ground water monitoring data, the specific type of control chart and its associated parameter values shall be proposed by the owner or operator and approved by the administrative authority if he or she finds it to be protective of human health and the environment.*

4. *If a tolerance interval or a prediction interval is used to evaluate ground water monitoring data, the levels of confidence and, for tolerance intervals, the percentage of the population that the interval must contain, shall be proposed by the owner or operator and approved by the administrative authority if he or she finds these parameters to be protective of human health and the environment. These parameters will be determined after considering the number of samples in the background data base, the data distribution, and the range of the concentration values for each constituent of concern.*

5. *The statistical method shall account for data below the limit of detection with one or more statistical procedures that are protective of human health and the environment. Any practical quantification limit (PQL) approved by the*

administrative authority under LAC 33:V.3315.H that is used in the statistical method shall be the lowest concentration level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions that are available to the facility.

6. *If necessary, the statistical method shall include procedures to control or correct for seasonal and spatial variability as well as temporal correlation in the data.*

Reference is made to the response to LAC 33:V.3315.H above. The current LDEQ approved statistical evaluation method used at the Facility meets the requirements of LAC 33:V.3315.I. No change to the method is proposed as part of this post-closure permit renewal application.

J. Ground water monitoring data collected in accordance with LAC 33:V.3315.G including actual levels of constituents must be maintained in the facility operating record. The administrative authority will specify in the permit when the data must be submitted for review.

All groundwater data collected in accordance with LAC 33:V.3315.G including actual levels of constituents is currently maintained in the Facility record as required by LAC 33:V.3315.J. The current operating and post-closure permits require semi-annual and annual reporting of the groundwater data to the LDEQ. No changes to the data retention at the Facility or reporting requirements are proposed as part of this post-closure permit renewal application.

K. The ground water monitoring program must ensure that the permittee maintains records from all required ground water monitoring wells and associated ground water surface elevations for the active life of the facility, including the operating, closure, and post-closure care periods.

All groundwater monitoring well and groundwater surface elevation data are currently maintained for the active operating life of the Facility and during closure and post-closure periods. No changes to these data retention records at the Facility are proposed as part of this post-closure permit renewal application.

3317. Detection Monitoring Program

The Facility is operating under a groundwater compliance monitoring program in accordance with LAC 33:V.3319 and the RCRA Part B Permit LAD 010395127-P and Post-Closure Permits LAD 010395127-PC-1, PC-2 and PC-3. Since the Facility is in a compliance-monitoring program, none of the requirements of LAC 33:V.3317 described below currently apply to this post-closure permit renewal application for closed Landfill Cell 717. However, comments are provided for some items.

NOTE: An owner or operator required to establish a detection monitoring program under this Subpart must, at a minimum, discharge the following responsibilities.

A. The owner or operator must monitor for indicator parameters (e.g., specific conductance, total organic carbon, or total organic halogen), waste constituents, or reaction products that provide a reliable indication of the presence of hazardous constituents in ground water. The authority will specify the parameters or constituents to be monitored in the facility permit, after considering the following factors:

1. *the types, quantities, and concentrations of constituents in wastes managed at the regulated unit;*
2. *the mobility, stability, and persistence of waste constituents or their reaction products in the unsaturated zone beneath the waste management area;*
3. *the detectability of indicator parameters, waste constituents, and reaction products in ground water; and*
4. *the concentrations or values, and coefficients of variation of proposed monitoring parameters or constituents in the ground water background.*

Parameters and constituents currently monitoring under the Facility's groundwater compliance monitoring program are provided in Appendix F (Table 1, Appendix A and B of 2007 Report) and the proposed SAP in Appendix T.

B. The owner or operator must install a ground water monitoring system at the compliance point as specified under LAC 33:V.3311. The ground water monitoring system must comply with LAC 33:V.3315.A.2, B, and C.

Reference is made to the responses to LAC 33:V.3311.A and B above. The location of the "point-of-compliance" wells is provided on Figures 2 and 2A in Appendix C and Figure 2 in 2007 Annual Groundwater Monitoring Report (Appendix F).

C. The owner or operator must conduct a ground water monitoring program for each chemical parameter and hazardous constituent specified in the permit pursuant to LAC 33:V.3317.A in accordance with LAC 33:V.3315.G The owner or operator must maintain a record of ground water analytical data as measured and in a form necessary for the determination of statistical significance under LAC 33:V.3315.H.

Reference is made to the responses to LAC 33:V.3315.G and H above.

D. The administrative authority will specify the frequencies for collecting samples and conducting statistical tests to determine whether there is statistically significant evidence of contamination for any parameter or hazardous constituent specified in the permit under LAC 33:V.3317.A in accordance with LAC 33:V.3315.G A sequence of at least four samples from each well (background and compliance wells) must be collected at least semi-annually during detection monitoring.

Reference is made to the response to LAC 33:V.3315.G above.

E. The owner or operator must use procedures and methods for sampling and analysis that meet the requirements of LAC 33:V.3315.D and E.

Reference is made to the responses to LAC 33:V.3315.D and E above.

F. The owner or operator must determine whether there is statistically significant evidence of contamination for any chemical parameter or hazardous constituent specified in the permit pursuant to LAC 33:V.3317.A at a frequency specified under LAC 33:V.3317.D.

1. *In determining whether statistically significant evidence of contamination exists, the owner or operator must use the method(s) specified in the permit under LAC 33:V.3315.H. These method(s) must compare data collected at the compliance point(s) to the background ground water quality data.*
2. *The owner or operator must determine whether there is statistically significant evidence of contamination at each monitoring well at the compliance point within a reasonable period of time after completion of sampling. The administrative authority will specify in the facility permit what period is reasonable, after considering the complexity of the statistical test and the availability of laboratory facilities to perform the analysis of ground water samples.*

Reference is made to the responses to LAC 33:V.3315.G, 3315.H and 3315.I above.

G If the owner or operator determines pursuant to LAC 33:V.3317.F that there is statistically significant evidence of contamination for chemical parameters or hazardous constituents specified pursuant to LAC 33:V.3317.A at any monitoring well at the compliance point, he or she must do the following.

1. *Notify the administrative authority of this finding in writing within seven days. The notification must indicate what chemical parameters or hazardous constituents have shown statistically significant evidence of contamination.*
2. *Immediately sample the ground water in all monitoring wells and determine whether constituents listed in LAC 33:V.3325.Table 4 are present, and if so, in what concentrations.*

3. *For any LAC 33:V.3325 compounds found in the analysis pursuant to LAC 33:V.3317.G.2, the owner or operator may resample within one month and repeat the analysis for those compounds detected. If the results of the second analysis confirm the initial results, then these constituents will form the basis for compliance monitoring. If the owner or operator does not resample for the compounds found pursuant to LAC 33:V.3317.G.2, the hazardous constituents found during this initial LAC 33:V.3325.Table 4 analysis will form the basis for compliance monitoring.*

4. *Within 90 days, submit to the Office of Environmental Services, Permits Division an application for a permit modification to establish a compliance monitoring program meeting the requirements of LAC 33:V.3319. The application must include the following information:*

   a. *an identification of the concentration of any LAC 33:V.3325.Table 4 constituent detected in the ground water at each monitoring well at the compliance point;*

   b. *any proposed changes to the ground water monitoring system at the facility necessary to meet the requirements of LAC 33:V.3319;*

   c. *any proposed additions or changes to the monitoring frequency, sampling and analysis procedures or methods, or statistical methods used at the facility necessary to meet the requirements of LAC 33:V.3319;*

   d. *for each hazardous constituent detected (as defined in LAC 33:V.3301.A.1) at the compliance point, a proposed concentration limit under LAC 33:V.3309.A.3.a or b, or a notice of intent to seek an alternate concentration limit under LAC 33:V.3309.B.*

5. *Within 180 days, submit to the Office of Environmental Services, Permits Division:*

   a. *all data necessary to justify an alternate concentration limit sought under LAC 33:V.3309.B; and*

   b. *an engineering feasibility plan for a corrective action program necessary to meet the requirement of LAC 33:V.3321, unless:*

      i. *all hazardous constituents identified under LAC 33:V.3317.G.2 are listed in Table 1 of LAC 33:V.3309, and their concentrations do not exceed the respective values given in that table; or*

      ii. *the owner or operator has sought an alternate concentration limit under LAC 33:V.3309.B for every hazardous constituent identified under LAC 33:V.3317.G.2.*

6. *If the owner or operator determines, pursuant to LAC 33:V.3317.F, that there is a statistically significant difference for chemical parameters or hazardous constituents specified pursuant to LAC 33:V.3317.A at any monitoring well at the compliance point, he or she may demonstrate that a source other than a regulated unit caused the contamination or that the detection is an artifact caused by an*

error in sampling, analysis, or statistical evaluation or natural variation in the ground water. The owner or operator may make a demonstration under this Paragraph in addition to, or in lieu of, submitting a permit modification application under LAC 33:V.3317.G4; however, the owner or operator is not relieved of the requirement to submit a permit modification application within the time specified in LAC 33:V.3317.G4 unless the demonstration made under this Paragraph successfully shows that a source other than a regulated unit caused the increase, or that the increase resulted from error in sampling, analysis, or evaluation. In making a demonstration under this Paragraph, the owner or operator must:

a. *notify the Office of Environmental Services, Permits Division in writing within seven days of determining statistically significant evidence of contamination at the compliance point that he or she intends to make a demonstration under this Paragraph;*

b. *within 90 days, submit a report to the Office of Environmental Services, Permits Division that demonstrates that a source other than a regulated unit caused the contamination or that the contamination resulted from error in sampling, analysis, or evaluation;*

c. *within 90 days, submit to the administrative authority an application for a permit modification to make any appropriate changes to the detection monitoring program facility; and*

d. *continue to monitor in accordance with the detection monitoring program established under this Section.*

The Facility does not currently operate under groundwater detection monitoring requirements but instead operates a groundwater compliance monitoring program in accordance with LAC 33:V.3319. Therefore, the notification and other requirements of this item do not apply at this time. However, in the event a groundwater detection-monitoring program becomes applicable for the Facility including the closed Landfill Cell 717 area, the notification requirements of LAC 33:V.3317.G will be followed.

H. *If the owner or operator determines that the detection monitoring program no longer satisfies the requirements of this Section, he or she must, within 90 days, submit an application for a permit modification to make any appropriate changes to the program.*

Reference is made to the response to LAC 33:V.3317.G above.

3319. Compliance Monitoring Program

NOTE: An owner or operator required to establish a compliance monitoring program under this Chapter must, at a minimum, discharge the following responsibilities.

A. The owner or operator must monitor the ground water to determine whether regulated units are in compliance with the ground water protection standard under LAC 33:V.3305. The administrative authority will specify the ground water protection standard in the facility permit, including:

1. a list of the hazardous constituents identified under LAC 33:V.3307;

2. concentration limits under LAC 33:V.3309 for each of those hazardous constituents;

3. the compliance point under LAC 33:V.3311; and

4. the compliance period under LAC 33:V.3313.

The Facility has established a groundwater compliance monitoring system that meets the requirements of LAC 33:V.3319.A and the current operating and post-closure permits. A description of the groundwater monitoring systems and results is provided in the 2007 Annual Groundwater Monitoring Report in Appendix F. The current facility permits (RCRA and Post-Closure LAD 010395127-P, PC-1, PC-2, and PC-3) have set the groundwater protection standard for the monitored LAC 33:V.3325. Table 4 list of constituents as the Method Detection Limits (MDL), established in "Test Methods for Evaluating Solid Waste Physical/Chemical Methods, 3rd Ed." (EPA Publication Number SW-846, 1986 as amended), or approved equivalent. A reproduction of this table is provided in Appendix B of the revised Groundwater Sampling and Analysis (attached in Appendix T of this document). This table includes the Practical Quantitation Limits in ug/L for the various constituents. The sample data sheets (Severn Trent/Test America in Boulder, Colorado LELAP) provided in Appendix B of the 2007 Annual Groundwater Report (Appendix F, attached) lists the current Reporting Limits (RLs) in ug/L for LAC 33:V.3325. Table 4 list of constituents. These RLs are at or above the MDLs. The MDLs are determined experimentally and can vary for a given method and matrix. Also attached in Appendix T of this document is Table 1 showing the LAC 33:V.3325. Table 4 list of constituents with the currently used SW-846 test methods and MDLs provided by SevernTrent/Test America of Boulder, Colorado. The "point of compliance" is shown on Figures 2 and 2A in Appendix C.

The RCRA Part B Permit LAD 010395127-P specifies the compliance period, during which the groundwater protection standard of LAC 33:V.3305 applies, to be the number of years equal to the active life of the waste management area (including any waste management activity prior to permitting, and the closure period). Post-Closure Permits LAD 010395127-PC-1, PC-2, and PC-3 specifies the

compliance period for Landfill Cells 901, 902 and 717, respectively to be the post-closure care period of 30 years. Closed Landfill Cell 717 is in its tenth year of post-closure care monitoring. The Facility assumes these compliance periods, which meets the requirements of LAC 33.V.3313.A apply to this post-closure permit renewal application.

The Facility has proposed to modify the current groundwater compliance-monitoring program. Attached in Appendix T is the justification for the proposed changes and a revised groundwater sampling and analysis plan reflecting these proposed changes. The proposed changes deal primarily with analytical testing and monitoring frequencies. The Facility has also proposed to discontinue sampling of several offsite-monitoring wells that have adequate upgradient wells to monitor this area of the Facility.

B. The owner or operator must install a ground water monitoring system at the compliance point as specified under LAC 33:V.3311. The ground water monitoring system must comply with LAC 33:V.3315.A.2, B, and C.

Under the current permits, there is a LDEQ approved groundwater monitoring system at the compliance points that meets the requirements of LAC 33:V.3311 and complies with LAC 33:V.3315.A.2, B, and C. Figures 2 and 2A in Appendix C and Figure 2 in the 2007 Annual Groundwater Monitoring Report (Appendix F) show the location of compliance point wells. The Facility has proposed to modify the current groundwater compliance-monitoring program. Attached in Appendix T is the justification for the proposed changes and a revised groundwater sampling and analysis plan reflecting these proposed changes. The proposed changes deal primarily with analytical testing and monitoring frequencies. The Facility has also proposed to discontinue sampling of several offsite-monitoring wells that have adequate upgradient wells to monitor this area of the Facility.

C. The administrative authority will specify the sampling procedures and statistical methods appropriate for the constituents and the facility, consistent with LAC 33:V.3315.G and H.

1. *The owner or operator must conduct a sampling program for each chemical parameter or hazardous constituent in accordance with LAC 33:V.3315.G*
2. *The owner or operator must record ground water analytical data as measured and in the form necessary for the determination of statistical significance under LAC 33:V.3315.H for the compliance period of the facility.*

The Facility currently conducts a sampling program for each chemical parameter or hazardous constituent in accordance with LAC 33:V.3315.G and records the groundwater analytical data as measured and in the form required under LAC 33:V.3315.H. The current RCRA Part B Permit and Post-Closure Permits also

include these LDEQ specified sampling procedures and statistical methods. Details of the procedures are also provided in the 2007 Annual Groundwater Monitoring Report in Appendix F. Attached in Appendix T is the justification and description of the proposed changes to the groundwater compliance-monitoring program for this post-closure permit renewal application. The proposed revised program will also be in accordance with LAC 33:V.3315.G and the groundwater analytical data will be measured and recorded in the form required by LAC 33:V.3315H.

D. The owner or operator must determine whether there is statistically significant evidence of increased contamination for any chemical parameter or hazardous constituent specified in the permit, pursuant to LAC 33:V.3319.A at a frequency specified under LAC 33:V.3319.F.

1. *In determining whether statistically significant evidence of increased contamination exists, the owner or operator must use the method(s) specified in the permit under LAC 33:V.3315.H. The method(s) must compare data collected at the compliance point(s) to a concentration limit developed in accordance with LAC 33:V.3309.*
2. *The owner or operator must determine whether there is statistically significant evidence of increased contamination at each monitoring well at the compliance point within a reasonable period after completion of sampling. The administrative authority will specify that period in the facility permit, after considering the complexity of the statistical test and the availability of laboratory facilities to perform the analysis of ground water samples.*

The Facility, as part of the evaluation of groundwater data from semi-annual sampling events and for the annual report, currently evaluates historical trends, short- and long-term in contaminant concentrations. This evaluation is described in the response to LAC 33:V.520.G.6. This approach has been used to satisfy the requirements of LAC:33V.3315.H and the RCRA Part B Permit LAD 010395127-P and Post-Closure Permits LAD 010395127-PC-1, PC-2 and PC-3. No changes to the methods are proposed as part of this post-closure permit renewal application.

E. The owner or operator must determine the groundwater flow rate and direction in the uppermost aquifer at least annually.

Groundwater flow rate and direction are currently evaluated at least annually and included in the annual groundwater monitoring report as demonstrated in the 2007 Annual Groundwater Monitoring Report (Appendix F). The Facility proposes no changes to the current evaluation and reporting frequency for this post-closure permit renewal application.

F. The administrative authority will specify the frequencies for collecting samples and conducting statistical tests to determine statistically significant evidence of increased contamination in accordance with LAC 33:V.3315.G A sequence of at least four samples from each well (background and compliance wells) must be collected at least semi-annually during the compliance period of the facility.

The Facility has been collecting samples and evaluating historical trends from the background and compliance wells in accordance with LAC 33:V.3315.G and the operating and post-closure permits since the 1980's. The current sampling and reporting frequency is semi-annual. The Facility has proposed to modify the current groundwater compliance-monitoring program. Attached in Appendix T is the justification for the proposed changes and a revised groundwater sampling and analysis plan reflecting these proposed changes. The proposed changes deal primarily with analytical testing and monitoring frequencies. The Facility has also proposed to discontinue sampling of several offsite-monitoring wells that have adequate upgradient wells to monitor this area of the Facility.

G. The owner or operator must analyze samples from all monitoring wells at the compliance point for all constituents listed in LAC 33:V.3325.Table 4 at least annually to determine whether additional hazardous constituents are present in the uppermost aquifer and, if so, at what concentration, pursuant to procedures in LAC 33:V.3317.F. If the owner or operator finds LAC 33:V.3325.Table 4 constituents in the groundwater that are not already identified in the permit as monitoring constituents, the owner or operator may resample within one month and repeat the LAC 33:V.3325.Table 4 analysis. If the second analysis confirms the presence of new constituents, the owner or operator must report the concentrations of these additional constituents to the administrative authority within seven days after the completion of the second analysis and add them to the monitoring list. If the owner or operator chooses not to resample, then he or she must report the concentrations of these additional constituents to the administrative authority within seven days after completion of the initial analysis and add them to the monitoring list.

All monitor wells at the compliance point are currently sampled and analyzed for all constituents listed in LAC 33:V.3325, Table 4 at least annually. The sampling and analysis requirements in Table VI-1 (Rev.) of the Post-Closure Permit LAD 010395127-PC-3 meets the requirements of this subsection and supersede those of the RCRA Part B Permit LAD 010395127-P and Post-Closure Permits LAD 010395127-PC-1 and PC-2. A copy of this table is provided in Appendix C of 2007 Annual Groundwater Monitoring Report (Appendix F). The Facility has proposed to modify the current groundwater compliance-monitoring program. Attached in Appendix T is the justification for the proposed changes and a revised groundwater sampling and analysis plan reflecting these proposed changes. The proposed changes deal primarily with analytical testing and monitoring frequencies. The Facility has also proposed to discontinue sampling of several

offsite-monitoring wells that have adequate upgradient wells to monitor this area of the Facility.

H. If the owner or operator determines, pursuant to LAC 33:V.3319.D, that any concentration limits under LAC 33:V.3309 are being exceeded at any monitoring well at the point of compliance, he or she must:

1. notify the Office of Environmental Services, Permits Division of this finding in writing within seven days. The notification must indicate what concentration limits have been exceeded; and

2. submit, to the Office of Environmental Services, Permits Division, an application for a permit modification to establish a corrective action program meeting the requirements of LAC 33:V.3321 within 180 days, or within 90 days if an engineering feasibility study has been previously submitted to the administrative authority under LAC 33:V.3317.H.5. The application must at a minimum include the following information:

a. a detailed description of corrective actions that will achieve compliance with the groundwater protection standard specified in the permit under LAC 33:V.3319.A; and

b. a plan for a groundwater monitoring program that will demonstrate the effectiveness of the corrective action. Such a groundwater monitoring program may be based on a compliance monitoring program developed to meet the requirements of this Section.

In the event that any concentration limits under LAC 33:V.3309 are exceeded at any of the point of compliance well and these exceedences can be attributed to closed Landfill Cell 717, the Facility will notify the LDEQ in accordance with the requirements of LAC 33:V.3319.H. As described in the response to LAC 33:V.520.G, the Facility has detected exceedences at the point of compliance that are unrelated to closed Landfill Cell 717 and has been implementing corrective actions at the site since 1981. Corrective actions have included the removal and closure of hazardous waste areas and groundwater recovery. Additional corrective actions, which include groundwater recovery, capping, etc. have also been proposed as part of the RFI/CMS process of the Facility's HSWA Permit and Administrative Order on Consent, EPA Docket No. VI-004- (h)-88-H. The currently approved groundwater compliance monitoring program has been used successfully to demonstrate the effectiveness of the corrective actions. The facility proposes to continue these programs including those changes outlined in Appendix T to satisfy the requirements of this subsection and this post-closure permit renewal application.

I. If the owner or operator determines, pursuant to LAC 33:V.3319.D, that the groundwater concentration limits under this Section are being exceeded at any

monitoring well at the point of compliance, he or she may demonstrate that a source other than a regulated unit caused the contamination or that the detection is an artifact caused by an error in sampling, analysis, or statistical evaluation or natural variation in the groundwater. In making a demonstration under this Subsection, the owner or operator must:

1. *notify the Office of Environmental Services, Permits Division in writing within seven days that he intends to make a demonstration under this Paragraph;*
2. *within 90 days, submit a report to the Office of Environmental Services, Permits Division which demonstrates that a source other than a regulated unit caused the standard to be exceeded or that the apparent noncompliance with the standards resulted from error in sampling, analysis or evaluation;*
3. *within 90 days, submit to the Office of Environmental Services, Permits Division an application for a permit modification to make any appropriate changes to the compliance monitoring program at the facility; and*
4. *continue to monitor in accord with the compliance monitoring program established under this Chapter.*

In the event an exceedance of the groundwater concentration limits at any compliance point monitor well is due to a source other than a regulated unit, the Facility will follow the notification, demonstration and permit modification requirements of this subsection. The Facility will also continue to monitor in accordance with the currently established groundwater compliance-monitoring program including proposed changes outlined in Appendix T during the post-closure care period for closed Landfill Cell 717.

J. If the owner or operator determines that the compliance monitoring program no longer satisfies the requirements of this Section, he must, within 90 days, submit to the Office of Environmental Services, Permits Division an application for a permit modification to make any appropriate changes to the program.

In the event it is determined during post-closure care of closed Landfill Cell 717 that the groundwater compliance monitoring program no longer satisfies the requirements of LAC 33:V.3319, the Facility will submit in accordance with LAC 33:V.3319.J and as outlined in the response to LAC 33:V.3303.A and B above a permit modification to make any appropriate changes to the program.

3321. Corrective Action Program

NOTE: An owner or operator required to establish a corrective action program under this Subpart must, at a minimum, discharge the following responsibilities.

A. the owner or operator must take corrective action to ensure that regulated units are in compliance with the groundwater protection standard under LAC 33:V.3305. The administrative authority will specify the groundwater protection standard in the facility permit, including:

1. *a list of the hazardous constituents identified under LAC 33:V.3307;*
2. *concentration limits under LAC 33:V.3309 for each of those hazardous constituents;*
3. *the compliance point under LAC 33:V.3311; and*
4. *the compliance period under LAC 33:V.3313;*

The groundwater protection standards are currently specified in the LDEQ-issued permits for the Facility and in our response to LAC 33:V.3319.A. above. No changes to these standards are proposed by the Facility as part of this post-closure permit renewal application.

B. the owner or operator must implement a corrective action program that prevents hazardous constituents from exceeding their respective concentration limits at the compliance point by removing the hazardous waste constituents or treating them in place. The permit will specify the specific measures that will be taken;

The response to LAC 33:V.520.H describes the corrective action program currently in effect at the Facility. Additional corrective actions, which include groundwater recovery, capping, etc., have also been proposed as part of the detailed Risk Assessment and Draft Corrective Measures Study (CMS) and subsequent CMS Addendum(s) submitted to the LDEQ in December 2, 1993, July 31, 1995, and August 24,1998, respectively. The CMS was submitted in fulfillment of Section F and Tasks VII through X of the Facility's HSWA Permit and Administrative Order on Consent, EPA Docket No. VI-004-(h)-88-H. The LDEQ has reviewed and concurs that the proposed Corrective Measures will provide overall protection of human health and the environment, a means to attain media cleanup standards for soil and groundwater (RECAP Screening Standards), a means to control the sources of the releases, and are in compliance with standards for management of wastes, as applicable (see copies of LDEQ letter dated October 1, 1998 and June 30, 2003 in Appendix J). The LDEQ issued an Administrative Order on December 3, 2003 (Appendix J) that provides a schedule for implementing the Corrective Measures Work Phases. The Facility submitted the Corrective Measures Implementation Workplan (CMIWP) on March 1, 2008 and is awaiting review and approval. Following approval, the implementation of the CMIWP will be the next step in the CMS process.

The facility proposes to continue using the corrective action program described above to meet the requirements of this subsection.

C. the owner or operator must begin corrective action within a reasonable time period after the groundwater protection standard is exceeded. The administrative authority will specify that time period in the facility permit. If a facility permit includes a corrective action program in addition to a compliance monitoring program, the permit will specify when the corrective action will begin and such a requirement will operate in lieu of LAC 33:V.3319.I.2;

There is a corrective action and groundwater compliance-monitoring program currently in effect as described in the responses to LAC 33:V.520.H, 3319 and 3321.B. These programs are described in the existing operating and post-closure permits. The facility proposes to continue with these programs included the proposed changes outlined in Appendix T to meet the requirements of LAC 33:V.3321 during the post-closure care period for closed Landfill Cell 717.

D. in conjunction with a corrective action program, the owner or operator must establish and implement a groundwater monitoring program to demonstrate the effectiveness of the corrective action program. Such a monitoring program may be based on the requirements for a compliance monitoring program under LAC 33:V.3319 and must be as effective as that program in determining compliance with the groundwater protection standard under LAC 33:V.3305 and in determining the success of a corrective action program under LAC 33:V.3321.E,.where appropriate;

The currently approved groundwater compliance monitoring program has been used successfully to determine compliance with the groundwater protection standard under LAC 33:V.3305 and demonstrate the effectiveness of the corrective actions. The plan is described in detail in the RCRA Part B and Post-Closure Permits. Details of the ongoing program are also provided in the 2007 Annual Groundwater Monitoring Report in Appendix F. The facility proposes to continue these programs including the proposed changes outlined in Appendix T to satisfy the requirements of LAC 33:V.3321 during the post-closure care period for closed Landfill Cell 717.

E. in addition to the other requirements of this Section, the owner or operator must conduct a corrective action program to remove or treat in place any hazardous constituents under LAC 33:V.3307 that exceed concentration limits under LAC 33:V.3309 in groundwater:

1. *between the compliance point under LAC 33:V.3311 and the downgradient facility property boundary; and*
2. *beyond the facility boundary, where necessary to protect human health and the environment, unless the owner or operator demonstrates to the satisfaction of the administrative authority that, despite the owner's or operator's best efforts, the*

owner or operator was unable to obtain the necessary permission to undertake such action. The owner/operator is not relieved of all responsibility to clean up a release that has migrated beyond the facility boundary where off-site access is denied. On-site measures to address such releases will be determined on a case-by-case basis;

3. *corrective action measures under this Subsection must be initiated and completed within a reasonable period of time considering the extent of contamination;*
4. *corrective action measures under this Subsection may be terminated once the concentration of hazardous constituents under LAC 33:V.3307 is reduced to levels below their respective concentration limits under LAC 33:V.3309;*

As described in the response to LAC 33:V.520.H, the Facility has implemented a corrective action program to address the groundwater concentration limit exceedances between the compliance point and the downgradient property boundary and beyond the facility boundary. There is no evidence that any of these exceedences can be attributed to closed Landfill Cell 717. The Facility proposes to continue the existing corrective action program and implement the additional planned HSWA Permit CMS and Administrative Order corrective actions to meet the requirements of LAC 33:V.3321 during the post-closure care period for closed Landfill Cell 717.

F. the owner or operator must continue corrective action measures during the compliance period to the extent necessary to ensure that the groundwater protection standard is not exceeded. If the owner or operator is conducting corrective action at the end of the compliance period, he must continue that corrective action for as long as necessary to achieve compliance with the groundwater protection standard. The owner or operator may terminate corrective action measures taken beyond the period equal to the active life of the waste management area (including the closure period) if he can demonstrate, based on data from the groundwater monitoring program under LAC 33:V.3321.D, that the groundwater protection standard of LAC 33:V.3305 has not been exceeded for a period of three consecutive years;

As required by LAC 33:V.3321.F, the Facility will continue corrective action measures during the compliance period and as long as necessary to achieve compliance with the groundwater protection standard. The Facility recognizes that the corrective action measures can only be terminated following the active life of the waste management area (including the closure period) if it can be demonstrated that the groundwater protection standard of LAC 33:V.3305 has not been exceeded for a period of three consecutive years.

G. the owner or operator must report in writing to the Office of Environmental Assessment, Remediation Services Division on the effectiveness of the corrective

action program. The owner or operator must submit these reports semi-annually; and

As required by the Facility's RCRA Part B, Post-Closure Permits and LAC 33:V.3321.G, the effectiveness of corrective action is currently evaluated semi-annually and submitted to LDEQ with each semi-annual groundwater monitoring report as well as the annual report. A copy of the 2007 Annual Groundwater Monitoring Report is provided in Appendix F. No changes to this evaluation and reporting program are proposed for this post-closure permit renewal application.

H. if the owner or operator determines that the corrective action program no longer satisfies the requirements of this Section, he must, within 90 days, submit to the Office of Environmental Services, Permits Division an application for a permit modification to make any appropriate changes to the program.

The existing corrective action program currently satisfies the requirements of LAC 33:V.3321 and the operating and post-closure permits. In the event conditions change such that the corrective action program no longer satisfies the requirements of this section, the Facility will make the appropriate changes and modify the program in accordance with LAC 33:V.3321.H and as discussed in the response to LAC 33:V.3303.B.

3322. Corrective Action

A. The owner or operator of a facility seeking a permit for the treatment, storage, or disposal of hazardous waste must institute corrective action as necessary to protect human health and the environment for all releases of hazardous waste or constituents from any solid waste management unit at the facility, regardless of the time at which waste was placed in such unit.

As described in the responses to LAC 33:V.520.H and 3321, corrective action has been implemented at the Facility. The current corrective actions will continue and be modified as necessary to meet the requirements of LAC 33:V.3322.

B. Corrective action will be specified in the permit in accordance with LAC 33:V.2601 and 3322. The permit will contain schedules of compliance for such corrective action (where such corrective action cannot be completed prior to issuance of the permit) and assurances of financial responsibility for completing such corrective action.

Reference is made to the response to LAC 33:V.3321.B. The LDEQ issued an Administrative Order (AO) on December 3, 2003 that provides a schedule for implementing the Corrective Measures Work Phases. The Facility submitted the

Corrective Measures Implementation Workplan (CMIWP) on March 1, 2008 and is awaiting LDEQ review and approval. Following approval, the implementation of the CMIWP will be the next step in the CMS process. Compliance schedules and financial assurance responsibilities will be developed as part of the HSWA Permit Corrective Measures Implementation (CMI) and AO activities. The facility proposes using this HSWA Permit activity to satisfy the compliance schedule and financial assurance requirements of LAC 33:V.3322 and this post-closure permit renewal application.

C. The owner or operator must implement corrective actions beyond the facility property boundary, where necessary to protect human health and the environment, unless the owner or operator demonstrates to the satisfaction of the administrative authority that, despite the owner's or operator's best efforts, the owner or operator was unable to obtain the necessary permission to undertake such actions. The owner or operator is not relieved of all responsibility to clean up a release that has migrated beyond the facility boundary where off-site access is denied. On-site measures to address such releases will be determined on a case-by-case basis. Assurances of financial responsibility for such corrective action must be provided.

Reference is made to the responses to LAC 33:V.3321.B, 3321.E and 3322.B above. As required by LAC 33:V.3322, the current corrective action program includes corrective actions beyond the facility property boundary. There is no evidence that the need for the ongoing offsite corrective actions is as a result of any release from closed Landfill Cell 717. The Facility recognizes its responsibilities under LAC 33:V.3322 and will implement corrective actions beyond the property boundary as required during this post-closure care period.

D. Any risk-assessment-based corrective action must be protective of human health and the environment in accordance with LAC 33:I.Chapter 13.

Any risk-assessment-based corrective action proposed at the Facility will be demonstrated as being protective of human health and the environment in accordance with LAC 33:I, Chapter 13.

E. This Section does not apply to remediation waste management sites unless they are part of a facility subject to a permit for treating, storing, or disposing of hazardous wastes that are not remediation wastes.

The Facility including closed Landfill Cell 717 area is a RCRA permitted hazardous waste management site that has been utilized for the TSD of hazardous wastes including remediation wastes. Therefore, LAC 33:V.3322 does apply to the Facility and this post-closure permit renewal application.

3323. Monitoring Well Abandonment and Sealing of Bore Holes

NOTE: An owner or operator shall provide for the sealing of any vertical migration path resulting from exploratory boring and/or monitoring programs.

A. Any boring made in evaluating a site, monitoring, or other purpose related to the hazardous waste site shall be completely filled with cement-bentonite, or other equivalent technology approved by the administrative authority. The hole shall be left open only as necessary to obtain core samples, water samples and establish the initial water level. If subsequent samples or water level readings are to be taken, the hole shall be completed as a well with suitable casing and sealing of the annulus between the hole and the casing.

The drilling of any exploratory boring made at the Facility including during the post-closure care period for closed Landfill Cell 717 will be done in accordance with the requirements of LAC 33:V.3323 and the standards and guidelines specified in the "Construction of Geotechnical Boreholes and Groundwater Monitoring Systems" prepared by the Louisiana Department of Environmental Quality and Louisiana Department of Transportation and Development, dated May 1993 and subsequent addenda. The borings will be sealed in accordance with this guidance document.

B. When a monitoring well is to be abandoned, the owner or operator shall obtain approval for such abandonment. A request shall be made to the administrative authority, including the following information:

1. name and address of the facility;

2. well identification and exact location;

3. well construction data, including:

a. well depth and intermediate stratification;

b. screen length and material;

c. casing size and material;

d. sealing of the annulus; and

e. other pertinent data;

4. reason for abandonment; and

5. *proposed abandonment method, including sealing method and material proposed.*

In the event the Facility needs to abandon a monitoring well, a workplan will be submitted to LDEQ for review and approval prior to beginning any abandonment work. The workplan will include the information required in LAC 33:V.3323.B. The proposed abandonment procedures will conform to standards and guidelines specified in the "*Construction of Geotechnical Boreholes and Groundwater Monitoring Systems*" prepared by the Louisiana Department of Environmental Quality and Louisiana Department of Transportation and Development, dated May 1993 and subsequent addenda.

C. *The administrative authority may accept the proposal or require modification as necessary to protect groundwater.*

The Facility acknowledges the LDEQ authority to review and approve the proposal required in LAC 33:V.3323.B or require a modification as necessary to protect the groundwater.

D. *For any monitoring well which goes through or into a recognized potable water aquifer, and any well which the administrative authority feels could directly impact such aquifer, the owner or operator shall additionally complete and submit an abandonment report as required by the Water Resources Section of the Office of Public Works in the Department of Transportation and Development, or its successor agency.*

The Facility acknowledges that the Water Resources Section of the Office of Public Works in the Louisiana Department of Transportation and Development (LAWRS) requires that a water well contractor licensed in the State of Louisiana do any monitoring well installation and abandonment work. The Facility also acknowledges that the contractor and owner are required to submit an installation report for any new well and a plugging and abandonment report for any abandoned well. For any new wells and abandonment of any old wells, the Facility will complete and submit the appropriate reports as required to the LDEQ and LAWRS.

3325. Ground Water Monitoring List

Table 4 lists ground water monitoring constituents.

Table 4. Ground Water Monitoring List [1]

Common Name[2]	*CAS RN*[3]	*Chemical Abstracts Service Index Name*[4]	*Suggested Methods*[5]	*PQL (µg/L)*[6]
Acenaphthene	*83-32-9*	*Acenaphthylene, 1,2-dihydro-*	*8100* *8270*	*200* *10*
Acenaphthylene	*208-96-8*	*Acenaphthylene*	*8100* *8270*	*200* *10*
Acetone	*67-64-1*	*2-Propanone*	*8240*	*100*
Acetophenone	*98-86-2*	*Ethanone, 1-phenyl-*	*8270*	*10*
Acetonitrile; Methyl cyanide	*75-05-8*	*Acetonitrile*	*8015*	*100*
2-Acetylamino-fluorene; 2-AAF	*53-96-3*	*Acetamide, N-9H-fluoren-2-yl-*	*8270*	*10*
Acrolein	*107-02-8*	*2-Propenal*	*8030* *8240*	*5* *5*
Acrylonitrile	*107-13-1*	*2-Propenenitrile*	*8030* *8240*	*5* *5*
Aldrin	*309-00-2*	*1,4:5,8-Dimethano-naphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8, 8a,-hexa-hydro (1• ,4• , 4aβ,5β,8• ,8aβ)*	*8080* *8270*	*0.05* *10*
Allyl chloride	*107-05-1*	*1-Propene, 3-chloro-*	*8010* *8240*	*5* *100*
4-Amino-biphenyl	*92-67-1*	*[1,1'-Biphenyl]-4-amine*	*8270*	*10*
Aniline	*62-53-3*	*Benzenamine*	*8270*	*10*
Anathracene	*120-12-7*	*Anthracene*	*8100* *8270*	*200* *10*
Antimony	*(Total)*	*Antimony*	*6010* *7040* *7041*	*300* *2,000* *30*
Aramite	*140-57-8*	*Sulfurous acid,2-chloro-ethyl 2-[4-(1,1-di-methylethyl) phenoxy]-1-methyl-ethyl ester*	*8270*	*10*
Arsenic	*(Total)*	*Arsenic*	*6010* *7060* *7061*	*500* *10* *20*

Table 4. Ground Water Monitoring List [1]

Common Name[2]	CAS RN[3]	Chemical Abstracts Service Index Name[4]	Suggested Methods[5]	PQL (µg/L)[6]
Barium	(Total)	Barium	6010 7080	20 1,000
Benzene	71-43-2	Benzene	8020 8240	2 5
Benzo[a]anthracene; Benzanthracene	56-55-3	Benz[a]anthracene	8100 8270	200 10
Benzo[b]-fluoranthene	205-99-2	Benz[e]acephen-anthrylene	8100 8270	200 10
Benzo[k]-fluoranthene	207-08-9	Benzo[k]fluoranthene	8100 8270	200 10
Benzo[ghi]perylene	191-24-2	Benzo[ghi]perylene	8100 8270	200 10
Benzo[a]pyrene	50-32-8	Benzo[a]pyrene	8100 8270	200 10
Benzyl alcohol	100-51-6	Benzenemethanol	8270	20
Beryllium	(Total)	Beryllium	6010 7090	3 50
alpha-BHC	319-84-6	Cyclohexane,1,2,3,4,5, 6-hexachloro-, (1α ,2α ,3β,4α ,5β,6β)	8080 8250	0.05 10
beta-BHC	319-85-7	Cyclohexane, 1,2,3,4,5, 6-hexachloro-, (1α ,2β,3α ,4β,5α ,6β)-	8080 8250	0.05 40
delta-BHC	319-86-8	Cyclohexane, 1,2,3,4,5, 6-hexachloro-,(1α ,2α ,3α , 4β,5α ,6β)-	8080 8250	0.1 30
gamma-BHC; Lindane	58-89-9	Cyclohexane, 1,2,3,4,5, 6-hexachloro-, (1α ,2α ,3β,4α ,5α ,6β)	8080 8250	0.05 10
Bis(2-chloroethoxy) methane-	111-91-1	Ethane,1,1'-[methylenebis(oxy)]bis[2- chloro-	8270	10
Bis(2-chloroethyl) ether	111-44-4	Ethane, 1,1'-oxybis[2-chloro-	8270	10
Bis(2-chloro-1-methylethyl)ether; 2,2'-Dichlorodi-isopropyl ether	108-60-1	Propane, 2,2'-oxybis [1-chloro-	8010 8270	100 10

Table 4. Ground Water Monitoring List [1]

Common Name[2]	CAS RN[3]	Chemical Abstracts Service Index Name[4]	Suggested Methods[5]	PQL (µg/L)[6]
Bis(2-ethyl-hexyl) phthalat	117-81-7	1,2-Benzenedicarboxylic acid,bis(2-ethylhexyl) ester	8060 8270	20 10
Bromodichloro-methane	75-27-4	Methane, bromodichloro-	8010 8240	1 5
Bromoform;Tri-bromomethane	75-25-2	Methane, tribromo-	8010 8240	2 5
4-Bromophenyl-phenyl ether	101-55-3	Benzene,1-bromo-4-phenoxy-	8270	10
Butyl benzyl phthalate;Benzyl butyl phthalate	85-68-7	1,2-Benzenedicarboxylic acid, butyl phenyl- methyl ester	8060 8270	5 10
Cadmium	(Total)	Cadmium	6010 7130 7131	40 50 1
Carbon disulfide	75-15-0	Carbon disulfide	8240	5
Carbon tetrachloride	56-23-5	Methane, tetrachloro-	8010 8240	1 5
Chlordane	57-74-9	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octa-chloro-2,3,3a,4,7,7a-hexahydro-	8080 8250	0.1 10
p-Chloroaniline	106-47-8	Benzenamine, 4 chloro-	8270	20
Chlorobenzene	108-90-7	Benzene, chloro-	8010 8020	2 2
Chloro- benzilate	510-15-6	Benzeneacetic acid, 4-chloro-• -(4-chloro-phenyl)-• -hydroxy-, ethyl ester	8270	10
p-Chloro- m-cresol	59-50-7	Phenol, 4-chloro-3-methyl-	8040 8270	5 20
Chloroethane; Ethyl chloride	75-00-3	Ethane, chloro-	8010 8240	5 10
Chloroform	67-66-3	Methane, trichloro-	8010 8240	0.5 5
2-Chloro-naphthalene	91-58-7	Naphthalene, 2-chloro-	8120 8270	10 10

Table 4. Ground Water Monitoring List [1]

Common Name[2]	CAS RN[3]	Chemical Abstracts Service Index Name[4]	Suggested Methods[5]	PQL (µg/L)[6]
2-Chlorophenol	95-57-8	Phenol, 2-chloro-	8040 8270	5 10
4-Chlorophenyl phenyl ether	7005-72-3	Benzene, 1-chloro-4-phenoxy-	8270	10
Chloroprene	126-99-8	1,3-Butadiene, 2-chloro-	8010 8240	50 5
Chromium	(Total)	Chromium	6010 7190 7191	70 500 10
Chrysene	218-01-9	Chrysene	8100 8270	200 10
Cobalt	(Total)	Cobalt	6010 7200 7201	70 500 10
Copper	(Total)	Copper	6010 7210	60 200
m-Cresol	108-39-4	Phenol, 3-methyl-	8270	10
o-Cresol	95-48-7	Phenol, 2-methyl-	8270	10
p-Cresol	106-44-5	Phenol, 4-methyl-	8270	10
Cyanide	57-12-5	Cyanide	9010	40
2,4-D; 2,4-Dichlorophenoxyacetic acid	94-75-7	Acetic acid, (2,4-dichlorophenoxy)-	8150	10
4,4'-DDD	72-54-8	Benzene 1,1'-(2,2-dichloroethylidene) bis[4-chloro-	8080 8270	0.1 10
4,4'-DDE	72-55-9	Benzene, 1,1'-(dichloroethenylidene) bis[4-chloro-	8080 8270	0.05 10
4,4'-DDT	50-29-3	Benzene, 1,1'-(2,2,2-trichloroethylidene) bis[4-chloro-	8080 8270	0.1 10
Diallate	2303-16-4	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2- propenyl)ester	8270	10
Dibenz[a,h] anthracene	53-70-3	Dibenz[a,h]anthracene	8100 8270	200 10

Table 4. Ground Water Monitoring List [1]

Common Name[2]	*CAS RN*[3]	*Chemical Abstracts Service Index Name*[4]	*Suggested Methods*[5]	*PQL (µg/L)*[6]
Dibenzofuran	*132-64-9*	*Dibenzofuran*	*8270*	*10*
Dibromochloromethane;Chlorodibromomethane	*124-48-1*	*Methane, dibromo- chloro-*	*8010* *8240*	*1* *5*
1,2-Dibromo-3chloropropane; DBCP	*96-12-8*	*Propane, 1,2-dibromo- 3-chloro-*	*8010* *8240* *8270*	*100* *5* *10*
1,2-Dibromoethane; Ethylene dibromide	*106-93-4*	*Ethane, 1,2-dibromo-*	*8010* *8240*	*10* *5*
Di-n-butyl phthalate	*84-74-2*	*1,2-Benzenedicarboxylic acid, dibutyl ester*	*8060* *8270*	*5* *10*
o-Dichlorobenzene	*95-50-1*	*Benzene, 1,2-dichloro-*	*8010* *8020* *8120* *8270*	*2* *5* *10* *10*
m-Dichlorobenzene	*541-73-1*	*Benzene, 1,3-dichloro-*	*8010* *8020* *8120* *8270*	*5* *5* *10* *10*
p-Dichlorobenzene	*106-46-7*	*Benzene, 1,4-dichloro-*	*8010* *8020* *8120* *8270*	*2* *5* *15* *10*
3,3'-Dichlorobenzidine	*91-94-1*	*[1,1'-Biphenyl]4,4'-diamine, 3,3'-dichloro-*	*8270*	*20*
trans-1,4-Dichloro-2-butene	*110-57-6*	*2-Butene,1,4- dichloro-, (E)-*	*8240*	*5*
Dichlorodifluoromethane	*75-71-8*	*Methane, dichlorodifluoro-*	*8010* *8240*	*10* *5*
1,1-Dichloroethane	*75-34-3*	*Ethane,1,1-dichloro-*	*8010* *8240*	*1* *5*
1,2-Dichloroethane; Ethylene dichloride	*107-06-2*	*Ethane, 1,2-dichloro-*	*8010* *8240*	*0.5* *5*

Table 4. Ground Water Monitoring List[1]

Common Name[2]	*CAS RN*[3]	*Chemical Abstracts Service Index Name*[4]	*Suggested Methods*[5]	*PQL (µg/L)*[6]
1,1-Dichloro-ethylene; Vinylidene chloride	*75-35-4*	*Ethene, 1,1-dichloro-*	*8010* *8240*	*1* *5*
trans-1,2-Dichloroethylene	*156-60-5*	*Ethene,1,2-dichloro-(E)-*	*8010* *8240*	*1* *5*
2,4-Dichlorophenol	*120-83-2*	*Phenol, 2,4-dichloro-*	*8040* *8270*	*5* *10*
2,6-Dichlorophenol	*87-65-0*	*Phenol, 2,6-dichloro-*	*8270*	*10*
1,2-Dichloro-propane	*78-87-5*	*Propane, 1,2- dichloro-*	*8010* *8240*	*0.5* *5*
cis-1,3- Dichloro-propene	*10061-01-5*	*1-Propene, 1,3- dichloro-,(Z)-*	*8010* *8240*	*20* *5*
trans-1,3-Dichloropropene	*10061-02-6*	*1-Propene, 1,3- dichloro-, (E)-*	*8010* *8240*	*5* *5*
Dieldrin	*60-57-1*	*2,7:3,6-Dimethanonaphth [2,3-b]oxirene,3,4,5, 6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aα ,2β,2aα ,3β,6β,6aα ,7β,7aα)-*	*8080* *8270*	*0.05* *10*
Diethyl phthalate	*84-66-2*	*1,2-Benzenedicarboxylic acid, diethyl ester*	*8060* *8270*	*5* *10*
O,O-Diethyl O-2-pyrazinyl phosphorothioate; Thionazin	*297-97-2*	*Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester*	*8270*	*10*
Dimethoate	*60-51-5*	*Phosphorodithioic acid, O,O-dimethyls-[2-(methylamino)-2-oxoethyl] ester*	*8270*	*10*
p-(Dimethyl-amino)azobenzene	*60-11-7*	*Benzenamine, N,N-di-methyl-4- (phenylazo)-*	*8270*	*10*
7,12-Dimethyl-benz[a] anthracene	*57-97-6*	*Benz[a]anthracene, 7,12-dimethyl-*	*8270*	*10*
3,3'-Dimethyl-benzidine	*119-93-7*	*[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-*	*8270*	*10*

Table 4. Ground Water Monitoring List[1]

Common Name[2]	*CAS RN*[3]	*Chemical Abstracts Service Index Name*[4]	*Suggested Methods*[5]	*PQL (µg/L)*[6]
alpha, alpha-Dimethyl-phenethylamine	*122-09-8*	*Benzeneethanamine, α,α-dimethyl-*	*8270*	*10*
2,4-Dimethyl-phenol	*105-67-9*	*Phenol, 2,4-dimethyl-*	*8040*	*5*
Dimethyl phthalate	*131-11-3*	*1,2-Benzenedicarboxylic acid, dimethyl ester*	*8060* *8270*	*5* *10*
m-Dinitrobenzene	*99-65-0*	*Benzene, 1,3-dinitro-*	*8270*	*10*
4,6-Dinitro-o-cresol	*534-52-1*	*Phenol, 2-methyl-4,6-dinitro-*	*8040* *8270*	*150* *50*
2,4-Dinitrophenol	*51-28-5*	*Phenol, 2,4-dinitro-*	*8040* *8270*	*150* *50*
2,4-Dinitro-toluene	*121-14-2*	*Benzene, 1-methyl-2, 4-dinitro-*	*8090* *8270*	*0.2* *10*
2,6-Dinitro-toluene	*606-20-2*	*Benzene, 2-methyl- 1,3-dinitro-*	*8090* *8270*	*0.1* *10*
Dinoseb; DNBP; 2-sec-Butyl- 4,6-dinitrophenol	*88-85-7*	*Phenol, 2-(1-methyl-propyl)-4,6-dinitro-*	*8150* *8270*	*1* *10*
Di-n-octyl phthalate	*117-84-0*	*1,2-Benzenedicarboxylic acid, dioctyl ester*	*8060* *8270*	*30* *10*
1,4-Dioxane	*123-91-1*	*1,4-Dioxane*	*8015*	*150*
Diphenylamine	*122-39-4*	*Benzenamine, N-phenyl-*	*8270*	*10*
Disulfoton	*298-04-4*	*Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl]ester*	*8140* *8270*	*2* *10*
Endosulfan I	*959-98-8*	*6,9-Methano-2,4,3-benzodioxathiepin 6,7,8, 9,10,10-hexachloro-1,5, 5a,6,9,9a-hexahydro-, 3-oxide, (3• ,5aβ,6• ,9• , 9aβ)-*	*8080* *8250*	*0.1* *10*
Endosulfan II	*3213-65-9*	*6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexa-chloro-1,5,5a,6,9, 9a-hexahydro-, 3-oxide, (3• ,5a• ,6β,9• ,9a•)-*	*8080*	*0.05*

Table 4. Ground Water Monitoring List[1]

Common Name[2]	*CAS RN*[3]	*Chemical Abstracts Service Index Name*[4]	*Suggested Methods*[5]	*PQL (µg/L)*[6]
Endosulfan sulfate	*1031-07-8*	*6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexa-chloro-1,5,5a,6,9,9a- hexahydro-, 3,3-dioxide*	*8080* *8270*	*0.5* *10*
Endrin	*72-20-8*	*2,7:3,6-Dimethanonaphth[2,3-b]oxirene,3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aα ,2β,2aβ, 3α ,6α ,6aβ, 7β,7aα)-*	*8080* *8250*	*0.1* *10*
Endrin aldehyde	*7421-93-4*	*1,2,4-Methenocyclopenta[cd] pentalene- 5-carboxaldehyde, 2,2a,3,3,4,7-hexachloro-decahydro-,(1α ,2β,2aβ, 4β,4aβ,5β,6aβ,6bβ,7R*)-*	*8080* *8270*	*0.2* *10*
Ethylbenzene	*100-41-4*	*Benzene, ethyl-*	*8020* *8240*	*2* *5*
Ethyl methacrylate	*97-63-2*	*2-Propenoic acid, 2-methyl-, ethyl ester*	*8015* *8240* *8270*	*10* *5* *10*
Ethyl methane-sulfonate	*62-50-0*	*Methanesulfonic acid, ethyl ester*	*8270*	*10*
Famphur	*52-85-7*	*Phosphorothioic acid, O-[4-[(dimethylamino) sulfonyl]phenyl]-O,O-di-methyl ester*	*8270*	*10*
Fluoranthene	*206-44-0*	*Fluoranthene*	*8100*	*200*
Fluorene	*86-73-7*	*9H-Fluorene*	*8100* *8270*	*200* *10*
Heptachlor	*76-44-8*	*4,7-Methano-1H-indene, 1,4,5,6,7,8,8-hepta-chloro-3a,4,7,7a-tetrahydro-*	*8080* *8270*	*0.05* *10*
Heptachlor epoxide	*1024-57-3*	*2,5-Methano-2H-indeno [1,2-b]oxirene,2,3,4,5, 6,7,7-heptachloro-1a,1b,5,5a, 6,6ahexa-hydro-,(1aα ,1bβ,2α , 5α ,5aβ,6β,6aα)*	*8080* *8270*	*1* *10*

Table 4. Ground Water Monitoring List [1]

Common Name[2]	*CAS RN*[3]	*Chemical Abstracts Service Index Name*[4]	*Suggested Methods*[5]	*PQL (µg/L)*[6]
Hexachlorobenzene	*118-74-1*	*Benzene, hexachloro-*	*8120* *8270*	*0.5* *10*
Hexachlorobutadiene	*87-68-3*	*1,3-Butadiene, 1,1,2,3,4,4-hexachloro-*	*8120* *8270*	*5* *10*
Hexachloro-cyclopentadiene	*77-47-4*	*1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-*	*8120* *8270*	*5* *10*
Hexachloroethane	*67-72-1*	*Ethane, hexachloro-*	*8120* *8270*	*0.5* *10*
Hexachlorophene	*70-30-4*	*Phenol,2,2'-methyl-enebis [3,4,6- tri-chloro-*	*8270* *8270*	*10* *10*
Hexachloropropene	*1888-71-7*	*1-Propene,1,1,2,3,3,3-hexachloro*	*8270*	*10*
2-Hexanone	*591-78-6*	*2-Hexanone*	*8240*	*50*
Indeno(1,2,3- cd) pyrene	*193-39-5*	*Indeno[1,2,3-cd] pyrene*	*8100* *8270*	*200* *10*
Isobutyl alcohol	*78-83-1*	*1-Propanol, 2-methyl-*	*8015*	*50*
Isodrin	*465-73-6*	*1,4,5,8-Dimethano-naphthalene,1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro- (1• ,4• ,4aβ, 5β,8β,8aβ) -*	*8270*	*10*
Isophorone	*78-59-1*	*2-Cyclohexen-1-one,3,5,5-trimethyl-*	*8090* *8270*	*60* *10*
Isosafrole	*120-58-1*	*1,3-Benzodioxole,5-(1-propenyl)-*	*8270*	*10*
Kepone	*143-50-0*	*1,3,4-Metheno-2H-cylo-buta-[cd]pentalen-2-one,1,1a,3,3a,4,5,5,5a,5b,6-decachloroocta-hydro-*	*8270*	*10*
Lead	*(Total)*	*Lead*	*6010* *7420* *7421*	*40* *1,000* *10*
Mercury	*(Total)*	*Mercury*	*7470*	*2*
Methacrylonitrile	*126-98-7*	*2-Propenenitrile, 2-methyl-*	*8015* *8240*	*5* *5*

Table 4. Ground Water Monitoring List [1]

Common Name[2]	*CAS RN[3]*	*Chemical Abstracts Service Index Name[4]*	*Suggested Methods[5]*	*PQL (µg/L)[6]*
Methapyrilene	*91-80-5*	*1,2,Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-*	*8270*	*10*
Methoxychlor	*72-43-5*	*Benzene,1,1'-(2,2,2, trichloroethylidene) bis[4-methoxy-*	*8080* *8270*	*2* *10*
Methyl bromide; Bromomethane	*74-83-9*	*Methane, bromo-*	*8010* *8240*	*20* *10*
Methyl chloride; Chloromethane	*74-87-3*	*Methane, chloro-*	*8010* *8240*	*1* *10*
3-Methyl-cholanthrene	*56-49-5*	*Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-*	*8270*	*10*
Methylene bromide; Dibromomethane	*74-95-3*	*Methane, dibromo-*	*8010* *8240*	*15* *5*
Methylene chloride; Dichloromethane	*75-09-2*	*Methane, dichloro-*	*8010* *8240*	*5* *5*
Methyl ethyl ketone; MEK	*78-93-3*	*2-Butanone*	*8015* *8240*	*10* *100*
Methyl iodide; Iodomethane	*74-88-4*	*Methane, iodo-*	*8010* *8240*	*40* *5*
Methylmethacrylate	*80-62-6*	*2-Propenoic acid, 2-methyl-, methyl ester*	*8015* *8240*	*2* *5*
Methyl methanesulfonate	*66-27-3*	*Methanesulfonic acid, methyl ester*	*8270*	*10*
2-Methyl-naphthalene	*91-57-6*	*Naphthalene, 2-methyl-*	*8270*	*10*
Methyl parathion; Parathion methyl	*298-00-0*	*Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl)ester*	*8140* *8270*	*0.5* *10*
4-Methyl-2-pentanone; Methyl misobutyl ketone	*108-10-1*	*2-Pentanone, 4-methyl*	*8015* *8240*	*5* *50*
Naphthalene	*91-20-3*	*Naphthalene*	*8100* *8270*	*200* *10*
1,4-Naphthoquinone	*130-15-4*	*1,4-Naphthalene-dione*	*8270*	*10*
1-Naphthylamine	*134-32-7*	*1-Naphthalenamine*	*8270*	*10*

Table 4. Ground Water Monitoring List [1]

Common Name[2]	CAS RN[3]	Chemical Abstracts Service Index Name[4]	Suggested Methods[5]	PQL (µg/L)[6]
2-Naphthylamine	91-59-8	2-Naphthalenamine	8270	10
Nickel	(Total)	Nickel	6010 7520	50 400
o-Nitroaniline	88-74-4	Benzenamine, 2-nitro-	8270	50
m-Nitroaniline	99-09-2	Benzenamine, 3-nitro-	8270	50
p-Nitroaniline	100-01-6	Benzenamine, 4-nitro-	8270	50
Nitrobenzene	98-95-3	Benzene, nitro-	8090 8270	40 10
o-Nitrophenol	88-75-5	Phenol, 2-nitro-	8040 8270	5 10
p-Nitrophenol	100-02-7	Phenol, 4-nitro-	8040	10
4-Nitroquinoline, 1-oxide	56-57-5	Quinoline, 4-nitro-, 1-oxide	8270	10
N-Nitrosodi-n-butylamine	924-16-3	1-Butanamine, N-butyl-N-nitroso	8270	10
N-Nitroso-diethylamine	55-18-5	Ethanamine, N-ethyl- N-nitroso	8270	10
N-Nitroso-dimethylamine	62-75-9	Methanamine, N- methyl-N-nitroso-	8270	10
N-Nitroso-diphenylamine	86-30-6	Benzenamine, N-nitroso-N-phenyl-	8270	10
N-Nitrosodipropyl-amine;Di-n-propyl-nitrosamine	621-64-7	1-Propanamine, N-nitroso-N-propyl-	8270	10
N-Nitrosom-ethylethylamine	10595-95-6	Ethanamine, N-methyl- N-nitroso-	8270	10
N-Nitrosomor-pholine	59-89-2	Morpholine, 4-nitroso-	8270	10
N-Nitrosopiperi-dine	100-75-4	Piperidine, 1- nitroso-	8270	10
N-Nitrosopyrroli-dine	930-55-2	Pyrrolidine, 1- nitroso-	8270	10
5-Nitro-o-toluidine	99-55-8	Benzenamine,2-methyl-5-nitro-	8270	10
Parathion	56-38-2	Phosphorothioic acid, O,O-diethyl-O-(4-nitro-phenyl) ester	8270	10
Polychlorinated biphenyls; PCBs	See Note 7	1,1'-Biphenyl, chloro derivatives	8080 8250	50 100

Table 4. Ground Water Monitoring List [1]

Common Name[2]	*CAS RN*[3]	*Chemical Abstracts Service Index Name*[4]	*Suggested Methods*[5]	*PQL (µg/L)*[6]
Polychlorinated dibenzo-p- dioxins; PCDDs	*See Note 8*	*Dibenzo[b,e][1,4]dioxin, chloro derivatives*	*8280*	*0.01*
Polychlorinated dibenzofurans; PCDFs	*See Note 9*	*Dibenzofuran, chloro derivatives*	*8280*	*0.01*
Pentachlorobenzene	*608-93-5*	*Benzene, pentachloro-*	*8270*	*10*
Pentachloroethane	*76-01-7*	*Ethane, pentachloro-*	*8240* *8270*	*5* *10*
Pentachloronitrobenzene	*82-68-8*	*Benzene, pentachloronitro-*	*8270*	*10*
Pentachlorophenol	*87-86-5*	*Phenol, pentachloro-*	*8040* *8270*	*5* *50*
Phenacetin	*62-44-2*	*Acetamide, N-(4-ethoxyphenyl)*	*8270*	*10*
Phenanthrene	*85-01-8*	*Phenanthrene*	*8100* *8270*	*200* *10*
Phenol	*108-95-2*	*Phenol*	*8040* *8270*	*1* *10*
p-Phenylenediamine	*106-50-3*	*1,4- Benzenediamine*	*8270*	*10*
Phorate	*298-02-2*	*Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester*	*8140* *8270*	*2* *10*
2-Picoline	*109-06-8*	*Pyridine, 2-methyl-*	*8240* *8270*	*5* *10*
Pronamide	*23950-58-5*	*Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-*	*8270*	*10*
Propionitrile; Ethyl cyanide	*107-12-0*	*Propanenitrile*	*8015* *8240*	*60* *5*
Pyrene	*129-00-0*	*Pyrene*	*8100* *8270*	*200* *10*
Pyridine	*110-86-1*	*Pyridine*	*8240* *8270*	*5* *10*
Safrole	*94-59-7*	*1,3-Benzodioxole, 5- (2-propenyl)-*	*8270*	*10*

Table 4. Ground Water Monitoring List [1]

Common Name[2]	*CAS RN*[3]	*Chemical Abstracts Service Index Name*[4]	*Suggested Methods*[5]	*PQL (µg/L)*[6]
Selenium	*(Total)*	*Selenium*	*6010* *7740* *7741*	*750* *20* *20*
Silver	*(Total)*	*Silver*	*6010* *7760*	*70* *100*
Silvex; 2,4,5-TP	*93-72-1*	*Propanoic acid,2-(2,4, 5-trichlorophenoxy)-*	*8150*	*2*
Styrene	*100-42-5*	*Benzene, ethenyl-*	*8020* *8240*	*1* *5*
Sulfide	*18496-25-8*	*Sulfide*	*9030*	*10,000*
2,4,5-T; 2,4,5-, Trichlorophenoxy-acetic acid	*93-76-5*	*Acetic acid, (2,4,5-trichlorophenoxy)-*	*8150*	*2*
2,3,7,8-TCDD; 2,3,7,8-Tetra-chlorodibenzo-p-dioxin	*1746-01-6*	*Dibenzo[b,e][1,4]dioxin2, 3,7,8-tetrachloro-*	*8280*	*0.005*
1,2,4,5-Tetra-chlorobenzene	*95-94-3*	*Benzene, 1,2,4,5-tetrachloro-*	*8270*	*10*
1,1,1,2-Tetra-chloroethane	*630-20-6*	*Ethane, 1,1,1,2-tetrachloro-*	*8010* *8240*	*5* *5*
1,1,2,2-Tetra-chloroethane	*79-34-5*	*Ethane, 1,1,2,2-tetrachloro-*	*8010* *8240*	*0.5* *5*
Tetrachloro-ethylene; Perchloroethylene; Tetrachloroethene	*127-18-4*	*Ethene, tetrachloro-*	*8010* *8240*	*0.5* *5*
2,3,4,6-Tetra-chlorophenol	*58-90-2*	*Phenol, 2,3,4,6-tetrachloro-*	*8270*	*10*
Tetraethyl dithio-pyrophosphate; Sulfotepp	*3689-24-5*	*Thiodiphosphoric acid ($[(HO)_2P(S)]_2O$), tetraethyl ester*	*8270*	*10*
Thallium	*(Total)*	*Thallium*	*6010* *7840* *7841*	*400* *1,000* *10*
Tin	*(Total)*	*Tin*	*7870*	*8,000*

Table 4. Ground Water Monitoring List [1]

Common Name[2]	*CAS RN*[3]	*Chemical Abstracts Service Index Name*[4]	*Suggested Methods*[5]	*PQL (µg/L)*[6]
Toluene	*108-88-3*	*Benzene, methyl-*	*8020* *8240*	*2* *5*
o-Toluidine	*95-53-4*	*Benzenamine, 2-methyl-*	*8270*	*10*
Toxaphene	*8001-35-2*	*Toxaphene*	*8080* *8250*	*2* *10*
1,2,4-Trichlorobenzene	*120-82-1*	*Benzene,1,2,4-trichloro-*	*8270*	*10*
1,1,1-Trichloroethane; Methylchloroform	*71-55-6*	*Ethane, 1,1,1-trichloro-*	*8240*	*5*
1,1,2-Trichloroethane	*79-00-5*	*Ethane,1,1,2-,trichloro-*	*8010* *8240*	*0.2* *5*
Trichloroethylene; Trichloroethene	*79-01-6*	*Ethene, trichloro-*	*8010* *8240*	*1* *5*
Trichlorofluoromethane	*75-69-4*	*Methane,trichlorofluoro-*	*8010* *8240*	*10* *5*
2,4,5-Trichlorophenol	*95-95-4*	*Phenol, 2,4,5-trichloro-*	*8270*	*10*
2,4,6-Trichlorophenol	*88-06-2*	*Phenol, 2,4,6-trichloro-*	*8040* *8270*	*5* *10*
1,2,3-Trichloropropane	*96-18-4*	*Propane,1,2,3-tri-chloro-*	*8010* *8240*	*10* *5*
O,O,O-Triethyl phosphorothioate	*126-68-1*	*Phosphorothioic acid, O,O,O-triethyl ester*	*8270*	*10*
sym-Trinitrobenzene	*99-35-4*	*Benzene, 1,3,5- trinitro*	*8270*	*10*
Vanadium	*(Total)*	*Vanadium*	*6010* *7910* *7911*	*80* *2,000* *40*
Vinyl acetate	*108-05-4*	*Acetic acid, ethenyl ester*	*8240*	*5*
Vinyl chloride	*75-01-4*	*Ethene, chloro-*	*8010* *8240*	*2* *10*
Xylene (total)	*1330-20-7*	*Benzene, dimethyl-*	*8020* *8240*	*5* *5*

Table 4. Ground Water Monitoring List [1]

Common Name[2]	*CAS RN*[3]	*Chemical Abstracts Service Index Name*[4]	*Suggested Methods*[5]	*PQL (µg/L)*[6]
Zinc	*(Total)*	*Zinc*	*6010* *7950*	*20* *50*

[1] *The regulatory requirements pertain only to the list of substances; the right-hand columns (Methods and PQL) are given for informational purposes only. See also footnotes 5 and 6.*

[2] *Common names are those widely used in government regulations, scientific publications, and commerce; synonyms exist for many chemicals.*

[3] *Chemical Abstracts Service registry number. Where "Total" is entered, all species in the ground water that contain this element are included.*

[4] *CAS index names are those used in the ninth Cumulative Index.*

[5] *Suggested Methods refer to analytical procedure numbers used in EPA Report SW-846, Test Methods for Evaluating Solid Waste, Third Edition. Analytical details can be found in SW-846 and in documentation on file at the agency. The packed column gas chromatography methods 8010, 8020, 8030, 8040, 8060, 8080, 8090, 8110, 8120, 8140, 8150, 8240, and 8250 were promulgated methods through Update IIB of SW-846 and, as of Update III, the agency has replaced these methods with "capillary column GC methods," as the suggested methods. Caution: The methods listed are representative SW-846 procedures and may not always be the most suitable method(s) for monitoring an analyte under the regulations.*

[6] *Practical Quantitation Limits (PQLs) are the lowest concentrations of analytes in ground waters that can be reliably determined within specified limits of precision and accuracy by the indicated methods under routine laboratory operating conditions. The PQLs listed are generally stated to one significant figure. Caution: The PQL values in many cases are based only on a general estimate for the method and not on a determination for individual compounds; PQLs are not a part of the regulation.*

[7] *Polychlorinated biphenyls (CAS RN 1336-36-3); this category contains congener chemicals, including constituents of Aroclor-1016 (CAS RN 12674-11-2), Aroclor-1221 (CAS RN 11104-28-2), Aroclor-1232 (CAS RN 11141-16-5), Aroclor-1242 (CAS RN 53469-21-9), Aroclor-1248 (CAS RN 12672-29-6), Aroclor-1254 (CAS RN 11097-69-1), and Aroclor-1260 (CAS RN 11096-82-5). The PQL shown is an averaged value for PCB congeners.*

[8] *This category contains congener chemicals, including tetrachlorodibenzo-p-dioxins (see also 2,3,7,8-TCDD), pentachlorodibenzo-p-dioxins, and hexachlorodibenzo-p-dioxins. The PQL shown is an average value for PCDD congeners.*

[9] *This category contains congener chemicals, including tetrachlorodibenzofurans, pentachlorodibenzofurans, and hexachlorodibenzofurans. The PQL shown is an average value for PCDF congeners.*

Chapter 35

Closure and Post-Closure

3501. Applicability

A. *Closure and post-closure procedures ensure protection of the public and ecology against leakage of hazardous wastes to the environment from closed facilities which formerly stored, treated, and/or disposed of such wastes.*

B. *Except as LAC 33:V.1501 provides otherwise, LAC 33:V.3503-3517 (which concern closure) apply to all hazardous waste facilities in operation or under construction as of the effective date of LAC 33:V.Subpart 1 and to all hazardous waste facilities permitted under LAC 33:V.Subpart 1, as applicable.*

Landfill Cell 717 has been closed in accordance with a LDEQ approved closure plan. Closure of Landfill Cell 717 began in October 1988 and was completed with the submittal of deed restriction and closure certification to the East Baton Rouge City Parish and LDEQ on November 14, 1995 and November 16, 1995 (Addendum on December 8, 1995), respectively. The closure of this unit was approved by the LDEQ on December 18, 1995. On August 19, 1998, the LDEQ issued Post-Closure Permit LAD 0103295127-PC-3 (effective date of September 19, 1998) for Landfill Cell 717. This is a 10-year permit that will expire on September 19, 2008. Copies of the certification submittal and LDEQ approval letter are provided in Appendix L. Since this unit has been closed and is undergoing post-closure care monitoring in accordance with LDEQ issued post-closure permits, LAC 33:V.3502-3517 are no longer applicable. However, LAC 33:V.3519, 3521, 3523, 3525 and 3527 are applicable for this post-closure permit renewal application. The Facility acknowledges that closure and post-closure procedures are required to ensure protection of the public and ecology against leakage of hazardous wastes to the environment from closed units such as Landfill Cell 717.

C. *LAC 33:V.3519, 3521, 3523, 3525 and 3527 (post-closure care) apply to the owners and operators of:*

1. *all hazardous waste disposal facilities;*

As discussed in the response to LAC 33:V.3501.B above, post-closure care requirements of LAC 33:V.3519, 3521, 3523, 3525 and 3527 are applicable for Landfill Cell 717 during the post-closure care period and as part of this post-closure permit renewal application.

2. *waste piles, surface impoundments, or any facility from which the owner or operator intends to remove waste at closure, to the extent that these sections are made applicable to such facilities in LAC 33:V.2315 and 2911;*

There are no waste piles, surface impoundments or any unit from which the Facility intends to remove waste at closure or as part of this post-closure permit renewal application.

3. *tank systems that are required under LAC 33:V.1915 to meet the requirements for landfills; and*

There are no tank systems included in this post-closure permit renewal application.

4. *containment buildings that are required under LAC 33:V.1803 to meet the requirements for landfills.*

There are no containment buildings included in this post-closure permit renewal application.

D. *The administrative authority may replace all or part of the requirements of this Chapter (and the unit-specific standards referenced in LAC 33:V.3507.A.3 applying to a regulated unit), with alternative requirements set out in a permit or in an enforceable document (as defined in LAC 33:V.305.H), where the administrative authority determines that:*

1. *the regulated unit is situated among solid waste management units (or areas of concern), a release has occurred, and both the regulated unit and one or more solid waste management unit(s) (or areas of concern) are likely to have contributed to the release; and*
2. *it is not necessary to apply the closure requirements of this Chapter (and those referenced herein) because the alternative requirements will protect human health and the environment and will satisfy the closure performance standard of LAC 33:V.3507.A.1 and 2.*

The Facility acknowledges that the administrative authority may replace all or part of the requirements of LAC: 33.V. Chapter 35 as set forth in LAC: 33.V.3501.D.

3503. Notification of Intention to Close a Facility

A. At least 180 days prior to closure, the operator must notify the Office of Environmental Services, Permits Division of intention to close and supply the following information:

Reference is made to the response to LAC 33:V.3501.B above. Since Landfill Cell 717 has been closed and is undergoing post-closure care monitoring in accordance with a LDEQ issued post-closure permit, the requirements of LAC 33:V.3502-3517 are no longer applicable. The closure notification requirements of LAC 33:V.3503.A were met when this unit was originally closed.

1. *date of planned closure;*
2. *requested changes, if any, in the closure plan submitted with the permit application, which take advantage of new technology, unforeseen situations, and other requests which improve the safety of the closed facility;*
3. *closure schedule and estimated costs of each phase of the closure plan; and*
4. *request for release of closure funds in amounts and times as required by the closure schedules.*

Subchapter A. Closure Requirements

Reference is made to the response to LAC 33:V.3501.B above. Since Landfill Cell 717 has been closed and is undergoing post-closure care monitoring in accordance with a LDEQ issued post-closure permit, the requirements of LAC 33:V.3505-3517 below are no longer applicable.

3505. Closure Procedures

A. If closure methods are unchanged from the plan approved with the permit, the administrative authority will acknowledge receipt of the notification to close and prepare appropriate documents which will be executed upon completion and acceptance of each phase of the closure plan so that funds can be released.

B. If the request is made to change the closure plan, the operator will submit revisions to the plan to the Office of Environmental Services, Permits Division, supported by necessary scientific and engineering data to permit evaluation by the department, and the procedures established in permit process will be followed in evaluating and approving the requested changes.

3507. Closure Performance Standards

A. In accordance with LAC 33:V.3509, the owner or operator must close his facility in a manner that:

1. minimizes the need for further maintenance; and

2. controls, minimizes, or eliminates, to the extent necessary to prevent threats to human health and the environment, post-closure escape of hazardous waste, hazardous waste constituents, leachate, contaminated rainfall, or waste decomposition products to the groundwater, surface waters, or to the atmosphere; and

3. complies with closure requirements of this Chapter, including, but not limited to, the requirements of LAC 33:V.1803, 1911, 1915, 2117, 2315, 2521, 2719, 2911, 3121, and 3203-3207.

B. As a means of satisfying the closure requirements of Paragraph A.2 of this Section, the owner or operator may demonstrate an alternative risk-assessment-based closure in accordance with LAC 33:I.Chapter 13.

3509. Closure Financial Responsibility

A. The operator shall submit, with the permit application, a closure plan which provides the estimated cost of closure, and post-closure monitoring including long-term monitoring devices, and the number of years of estimated operation before closure, and which is designed to minimize the need for future maintenance and to ensure against leakage or escape of hazardous waste.

B. The operator shall create a "closure fund" under the requirements in LAC 33:V.Chapters 35 and 37.

3511. Closure Plan; Amendment of Plan

A. Written Plan

1. The owner or operator of a hazardous waste management facility must have a written closure plan. In addition, certain surface impoundments and waste piles from which the owner or operator intends to remove or decontaminate the hazardous waste at partial or final closure are required by LAC 33:V.2911.D and 2315.C to have contingent closure plans. The plan must be submitted with the permit application, in accordance with LAC 33:V.517.M and approved by the administrative authority as part of the permit issuance procedures under LAC 33:V.Chapters 3 and 7. In accordance with LAC 33:V.311, the approved closure plan will become a condition of any hazardous waste permit.

2. The administrative authority's approval of the plan must ensure that the approved closure plan is consistent with LAC 33:V.3507, 3511-3517, and the applicable

requirements of LAC 33:V.Chapter 33, 1803, 1911, 1915, 2117, 2315, 2521, 2719, 2911, 3121, and 3203. Until final closure is completed and certified in accordance with LAC 33:V.3517, a copy of the approved plan and all approved revisions must be furnished to the administrative authority upon request, including request by mail.

B. *Content of Plan. The plan must identify steps necessary to perform partial and/or final closure of the facility at any point during its active life. The closure plan must include, at least:*

1. *a description of how each hazardous waste management unit at the facility will be closed in accordance with LAC 33:V.3507;*
2. *a description of how final closure of the facility will be conducted in accordance with LAC 33:V.3507. The description must identify the maximum extent of the operations which will be unclosed during the active life of the facility; and*
3. *an estimate of the maximum inventory of hazardous wastes ever on-site over the active life of the facility and a detailed description of the methods to be used during partial closures and final closure, including, but not limited to, methods for removing, transporting, treating, storing, or disposing of all hazardous wastes, and identification of the type(s) of the off-site hazardous waste management units to be used, if applicable; and*
4. *a detailed description of the steps needed to remove or decontaminate all hazardous waste residues and contaminated containment system components, equipment, structures, and soils during partial and final closure, including, but not limited to, procedures for cleaning equipment and removing contaminated soils, methods for sampling and testing surrounding soils, and criteria for determining the extent of decontamination required to satisfy the closure performance standard;*
5. *a detailed description of other activities necessary during the closure period to ensure that all partial closures and final closure satisfy the closure performance standards, including, but not limited to, ground water monitoring, leachate collection, and run-on and run-off control;*
6. *a schedule for closure of each hazardous waste management unit and for final closure of the facility. The schedule must include, at a minimum, the total time required to close each hazardous waste management unit and the time required for intervening closure activities which will allow tracking of the progress of partial and final closure (for example, in the case of a landfill, unit estimates of the time required to treat or dispose of all hazardous waste inventory and of the time required to place a final cover must be included); and*
7. *for facilities that use trust funds to establish financial assurance LAC 33:V.3707 and 3711 and that are expected to close prior to the expiration of the permit, an estimate of the expected year of final closure; and*

8. *for facilities where the administrative authority has applied alternative requirements at a regulated unit under LAC 33:V.3301.G, 3501.D, and/or 3701.D, either the alternative requirements applying to the regulated unit or a reference to the enforceable document containing those alternative requirements.*

C. *Amendment of Plan. The owner or operator must submit to the Office of Environmental Services, Permits Division a written notification of or request for a permit modification to authorize a change in operating plans, facility design, or the approved closure plan in accordance with the applicable procedures in LAC 33:V.Chapters 3 and 7. The written notification or request must include a copy of the amended closure plan for review or approval by the administrative authority.*

1. *The owner or operator may submit a written notification or request to the to the Office of Environmental Services, Permits Division for a permit modification to amend the closure plan at any time prior to the notification of partial or final closure of the facility.*

2. *The owner or operator must submit a written notification of or request for a permit modification to authorize a change in the approved closure plan whenever:*

   a. *changes in operating plans or facility design affect the closure plan; or*

   b. *there is a change in the expected year of closure, if applicable; or*

   c. *in conducting partial or final closure activities, unexpected events require a modification of the approved closure plan.*

3. *The owner or operator must submit to the Office of Environmental Services, Permits Division a written request for a permit modification including a copy of the amended closure plan for approval at least 60 days prior to the proposed change in facility design or operation, or no later than 60 days after an unexpected event has occurred which has affected the closure plan.. If an unexpected event occurs during the partial or final closure period, the owner or operator must request a permit modification no later than 30 days after the unexpected event. An owner or operator of a surface impoundment or waste pile that intends to remove all hazardous waste at closure and is not otherwise required to prepare a contingent closure plan under LAC 33:V.2911.D or 2315.D must submit an amended closure plan to the Office of Environmental Services, Permits Division no later than 60 days from the date that the owner or operator or administrative authority determines that the hazardous waste management unit must be closed as a landfill, subject to the requirements of LAC 33:V.2521, or no later than 30 days from that date if the determination is made during partial closure or final closure. The administrative authority will approve, disapprove, or modify this amended plan in accordance with the procedures in LAC 33:V.Chapters 3 and 7. In accordance with LAC 33:V.311, the approved closure plan will become a condition of any hazardous waste permit issued.*

4. *The administrative authority may request modifications to the plan under the conditions described in LAC 33:V.3511.A.2. The owner or operator must submit the modified plan within 60 days of the administrative authority's request, or*

within 30 days if the change in facility conditions occurs during partial or final closure. Any modifications requested by the administrative authority will be approved in LAC 33:V.Chapters 3 and 7.

5. *The owner or operator requests the administrative authority to apply alternative requirements to a regulated unit under LAC 33:V.3301.G, 3501.D, and/or 3701.D.*

D. *Notification of Partial Closure and Final Closure*

1. *The owner or operator must notify the Office of Environmental Services, Permits Division in writing at least 60 days prior to the date on which he expects to begin closure of a surface impoundment, waste pile, land treatment or landfill unit, or final closure of a facility with such a unit. The owner or operator must notify the Office of Environmental Services, Permits Division in writing at least 45 days prior to the date on which he expects to begin final closure of a facility with only treatment or storage tanks, container storage, or incinerator units to be closed. The owner or operator must notify the Office of Environmental Services, Permits Division in writing at least 45 days prior to the date on which he expects to begin partial or final closure of a boiler or industrial furnace, whichever is earlier.*

2. *The date when he or she "expects to begin closure" must be one of the following:*

   a. *no later than 30 days after the date on which any hazardous waste management unit receives the known final volume of hazardous wastes or, if there is a reasonable possibility that the hazardous waste management unit will receive additional hazardous wastes, no later than one year after the date on which the unit received the most recent volume of hazardous waste. If the owner or operator of a hazardous waste management unit can demonstrate to the administrative authority that the hazardous waste management unit or facility has the capacity to receive additional hazardous wastes and he or she has taken, and will continue to take, all steps to prevent threats to human health and the environment, including compliance with all applicable permit requirements, the administrative authority may approve an extension to this one-year limit;*

   b. *for units meeting the requirements of LAC 33:V.3513.D, no later than 30 days after the date on which the hazardous waste management unit receives the known final volume of non-hazardous wastes, or if there is a reasonable possibility that the hazardous waste management unit will receive additional non-hazardous wastes, no later than one year after the date on which the unit received the most recent volume of non-hazardous wastes. If the owner or operator can demonstrate to the administrative authority that the hazardous waste management unit has the capacity to receive additional non-hazardous wastes and he or she has taken, and will continue to take, all steps to prevent threats to human health and the environment, including compliance with all applicable permit requirements, the administrative authority may approve an extension to this one-year limit.*

3. *If the facility's permit is terminated, or if the facility is otherwise ordered, by judicial decree or final order under R.S. 30:2025, to cease receiving hazardous wastes or to close, then the requirements of this Paragraph do not apply.*

However, the owner or operator must close the facility in accordance with the deadlines established in LAC 33:V.3513.

E. *Removal of Wastes and Decontamination or Dismantling of Equipment. Nothing in this Section shall preclude the owner or operator from removing hazardous wastes and decontaminating or dismantling equipment in accordance with the approved partial or final closure plan at any time before or after notification of partial or final closure.*

3513. Closure; Time Allowed for Closure

A. *Within 90 days after receiving the final volume of hazardous wastes, or the final volume of non-hazardous wastes if the owner or operator receives administrative authority allowance pursuant to LAC 33:V.3513.D and complies with all applicable requirements in LAC 33:V.3513.D and E, at a hazardous waste management unit or facility, the owner or operator must treat, remove from the facility or unit, or dispose of on-site, all hazardous wastes in accordance with the approved closure plan. The administrative authority may approve a longer period if the owner or operator complies with all applicable requirements for requesting a modification to the permit and demonstrates that:*

1. *the activities required to comply with this Paragraph will, of necessity, take longer than 90 days to complete, or*
2. *the hazardous waste management unit or facility has the capacity to receive additional hazardous wastes, or has the capacity to receive non-hazardous wastes if the owner or operator receives administrative authority allowance pursuant to LAC 33:V.3513.D and complies with LAC 33:V.3513.D and E, and there is a reasonable likelihood that he or another person will recommence operation of the site, as provided in LAC 33:V.321; and*
3. *closure of the facility would be incompatible with continued operation of the site; and*
4. *the owner or operator has taken and will continue to take all steps to prevent threats to human health and the environment.*

B. *The owner or operator must complete partial and final closure activities in accordance with the approved closure plan and within 180 days after receiving the final volume of hazardous wastes, or the final volume of non-hazardous wastes if the owner or operator complies with all applicable requirements in LAC 33:V.3513.D and E, at the hazardous waste management unit or facility. The administrative authority may approve an extension to the closure period if the owner or operator complies with all applicable requirements for requesting a permit modification and demonstrates that:*

1. *the partial or final closure activities will, of necessity, take longer than 180 days to complete; or*

2. *the hazardous waste management unit or facility has the capacity to receive additional hazardous wastes or has the capacity to receive non-hazardous wastes if the owner or operator complies with LAC 33:V.3513.D and E; and*

3. *there is a reasonable likelihood that he or another person will recommence operation of the hazardous waste management unit within one year, as provided in LAC 33:V.321; and*

4. *closure of the facility would be incompatible with continued operation of the site; and*

5. *he has taken and will continue to take all steps to prevent threats to human health and the environment from the unclosed, but inactive hazardous waste management unit including compliance with all applicable permit conditions.*

C. *The demonstrations referred to in LAC 33:V.3513.A and B must be made as follows:*

1. *the demonstrations in Subsection A must be made at least 30 days prior to the expiration of the 90-day period in Subsection A; and*

2. *the demonstration in LAC 33:V.3513.B must be made at least 30 days prior to the expiration of the 180-day period in LAC 33:V.3513.B, unless the owner or operator is otherwise subject to the deadlines in LAC 33:V.3513.D.*

D. *The administrative authority may allow an owner or operator to receive only non-hazardous wastes in a landfill, land treatment, or surface impoundment unit after the final receipt of hazardous wastes at that unit if the following conditions are met.*

1. *The owner or operator requests a permit modification in compliance with all applicable requirements in LAC 33:V.Chapters 1, 3, 5, 7, 27, 31, and 43, and in the permit modification request demonstrates that:*

   a. *the unit has the existing design capacity as indicated on the Part I application to receive non-hazardous wastes;*

   b. *there is a reasonable likelihood that the owner or operator or another person will receive non-hazardous wastes in the unit within one year after the final receipt of hazardous wastes;*

   c. *the nonhazardous wastes will not be incompatible with any remaining wastes in the unit, or with the facility design and operating requirements of the unit or facility under LAC 33:V.Chapters 9, 15, 17, 19, 21, 23, 25, 27, 28, 29, 31, 32, 33, 35, and 37;*

   d. *closure of the hazardous waste management unit would be incompatible with continued operation of the unit or facility; and*

   e. *the owner or operator is operating and will continue to operate in compliance with all applicable permit requirements.*

2. *The request to modify the permit includes an amended waste analysis plan, groundwater monitoring and response program, human exposure assessment required under LAC 33:V.503.A, and closure and post-closure plans, and updated cost estimates and demonstrations of financial assurance for closure and post-*

closure care as necessary and appropriate to reflect any changes due to the presence of hazardous constituents in the non-hazardous wastes and changes in closure activities, including the expected year of closure if applicable under LAC 33:V.3511.B.7, as a result of the receipt of non-hazardous wastes following the final receipt of hazardous wastes.

3. *The request to modify the permit includes revisions, as necessary and appropriate, to affected conditions of the permit to account for the receipt of non-hazardous wastes following receipt of the final volume of hazardous wastes.*

4. *The request to modify the permit and the demonstrations referred to in LAC 33:V.3513.D.1 and 2 are submitted to the administrative authority no later than 120 days prior to the date on which the owner or operator of the facility receives the known final volume of hazardous wastes at the unit, or no later than 90 days after the effective date of this rule, whichever is later.*

E. *In addition to the requirements in LAC 33:V.3513.D, an owner or operator of a hazardous waste surface impoundment that is not in compliance with the liner and leachate collection system requirements in LAC 33:V.Chapter 29 must do the following.*

1. *Submit to the Office of Environmental Services, Permits Division with the request to modify the permit:*

   a. *a contingent corrective measures plan, unless a corrective action plan has already been submitted under LAC 33:V.3319; and*

   b. *a plan for removing hazardous wastes in compliance with LAC 33:V.3513.E.2.*

2. *Remove all hazardous wastes from the unit by removing all hazardous liquids and removing all hazardous sludges to the extent practicable without impairing the integrity of the liner(s), if any.*

3. *Removal of hazardous wastes must be completed no later than 90 days after the final receipt of hazardous wastes. The administrative authority may approve an extension to this deadline if the owner or operator demonstrates that the removal of hazardous wastes will, of necessity, take longer than the allotted period to complete and that an extension will not pose a threat to human health and the environment.*

4. *If a release that is a statistically significant increase (or decrease in the case of pH) over background values for detection monitoring parameters or constituents specified in the permit or that exceeds the facility's groundwater protection standard at the point of compliance, if applicable; is detected in accordance with the requirements in LAC 33:V.Chapter 33, the owner or operator of the unit:*

   a. *must implement corrective measures in accordance with the approved contingent corrective measures plan required by LAC 33:V.3513.E.1 no later than one year after detection of the release or approval of the contingent corrective measures plan, whichever is later;*

b. may continue to receive wastes at the unit following detection of the release only if the approved corrective measures plan includes a demonstration that continued receipt of wastes will not impede corrective action; and

c. may be required by the administrative authority to implement corrective measures in less than one year or to cease the receipt of wastes until corrective measures have been implemented if necessary to protect human health and the environment.

5. During the period of corrective action, the owner or operator shall provide semiannual reports to the administrative authority that describe the progress of the corrective action program, compile all groundwater monitoring data, and evaluate the effect of the continued receipt of non-hazardous wastes on the effectiveness of the corrective action.

6. The administrative authority may require the owner or operator to commence closure of the unit if the owner or operator fails to implement corrective action measures in accordance with the approved contingent corrective measures plan within one year as required in LAC 33:V.3513.E.4, or fails to make substantial progress in implementing corrective action and achieving the facility's groundwater protection standard or background levels if the facility has not yet established a groundwater protection standard.

7. If the owner or operator fails to implement corrective measures as required in LAC 33:V.3513.E.4, or if the administrative authority determines that substantial progress has not been made pursuant to LAC 33:V.3513.E.6, he or she shall do the following.

a. The administrative authority will notify the owner or operator in writing that the owner or operator must begin closure in accordance with the deadlines in LAC 33:V.3513.A and B, and provide a detailed statement of reasons for this determination.

b. The administrative authority will provide the owner or operator and the public, through a newspaper notice, the opportunity to submit written comments on the decision no later than 20 days after the date of the notice.

c. If the administrative authority receives no written comments, the decision will become final five days after the close of the comment period. The administrative authority will notify the owner or operator that the decision is final, and that a revised closure plan, if necessary, must be submitted within 15 days of the final notice, and that closure must begin in accordance with the deadlines in LAC 33:V.3513.A and B.

d. If the administrative authority receives written comments on the decision, he or she shall make a final decision within 30 days after the end of the comment period, and provide the owner or operator in writing and the public through a newspaper notice with a detailed statement of reasons for the final decision. If the administrative authority determines that substantial progress has not been

made, closure must be initiated in accordance with the deadlines in LAC 33:V.3513.A and B.

e. The final determinations made by the administrative authority under LAC 33:V.3513.E.7.c and d are not subject to administrative appeal.

3515. Disposal or Decontamination of Equipment, Structures and Soils

A. During the partial and final closure periods, all contaminated equipment, structures, and soils must be properly disposed of or decontaminated, unless otherwise specified in LAC 33:V.1803, 1915, 2315, 2521, 2719, 2809, and 2911, or under the authority of LAC 33:V.3203 and 3207. By removing any hazardous waste or hazardous constituents during partial and final closure, the owner or operator may become a generator of hazardous waste and must handle that waste in accordance with all applicable requirements of LAC 33:V.Chapter 11.

3517. Certification of Closure

A. Within 60 days of completion of closure of each hazardous waste surface impoundment, waste pile, land treatment, and landfill unit, and within 60 days of the completion of final closure, the owner or operator must submit to the Office of Environmental Services, Permits Division, by registered mail, a certification that the hazardous waste management unit or facility, as applicable, has been closed in accordance with the specifications in the approved closure plan. The certification must be signed by the owner or operator and by an independent registered professional engineer. Documentation supporting the independent registered professional engineer's certification must be furnished to the administrative authority upon request until he releases the owner or operator from the financial assurance requirements for closure under LAC 33:V.3707.

B. Survey Plat. No later than the submission of the certification of closure of each hazardous waste disposal unit, the owner or operator must submit to the local zoning authority, or the authority with jurisdiction over local land use, and to the Office of Environmental Services, Permits Division, a survey plat indicating the location and dimensions of landfills cells or other hazardous waste disposal units with respect to permanently surveyed benchmarks. This plat must be prepared and certified by a professional land surveyor. The plat filed with the local zoning authority, or the authority with jurisdiction over local land use, must contain a note, prominently displayed, which states the owner's or operator's obligation to restrict disturbance of the hazardous waste disposal unit in accordance with the applicable Chapter 35 regulations.

Subchapter B. Post-Closure Requirements

3519. Post-Closure Procedures

A. Any proposed transfer of ownership of the property shall be reported to the administrative authority at least 60 days prior to execution of such sale.

Post-Closure Permit LAD 010395127-PC-3 for Landfill Cell 717 was originally issued to Rollins Environmental Services (LA), Inc. on August 19, 1998 (effective date of September 19, 1998). Subsequently, the ownership of this post-closure permit was transferred to Laidlaw Environmental Services (Baton Rouge), Inc. in May 1997 and to Safety-Kleen (Baton Rouge), Inc. in July 1998. This transfer was reported to the LDEQ. In July 2002, the LDEQ was notified of a change in ownership and transfer of the permits at the Baton Rouge Facility to Clean Harbors Baton Rouge, LLC. The LDEQ approved the transfer of the permits at Baton Rouge including the subject post-closure permit for Landfill Cell 717 in a letter dated August 30, 2002 (see copy in Appendix Q). Clean Harbors Baton Rouge, LLC is submitting this post-closure permit renewal application. In the event that there is a proposed change of ownership during this post-closure care period, the Facility will notify the LDEQ in accordance with LAC 33:V.3519.A and at least 60 days prior to the ownership change.

B. The administrative authority must approve any new owner. Criteria for approval includes agreement to land use restrictions necessary to protect public health and financial responsibility covering liability due to change in land use.

The Facility acknowledges that in accordance with LAC 33:V.3519.B the LDEQ must approve any new owner and that criteria for approval includes agreement to land use restrictions necessary to protect public health and financial responsibility covering liability due to change in land use. The Facility is not proposing any change in land use as part of this post-closure permit renewal application.

C. The administrative authority will conduct an annual evaluation of the site for the period of post-closure.

The Facility acknowledges that the LDEQ may conduct an annual evaluation of the site for the period of post-closure.

3521. Post-Closure Care and Use of Property

A. Length of Post-Closure

1. *Post-closure care for each hazardous waste management unit subject to the requirements of LAC 33:V.3519-3527 must continue for at least 30 years after the date of completing closure of that unit and must consist of at least the following:*

   a. *monitoring and reporting in accordance with the requirements of LAC 33:V.Chapters 23, 25, 27, 29, 32 and 33; and*

   b. *maintenance and monitoring of waste containment systems in accordance with the requirements of LAC 33:V.Chapters 23, 25, 27, 29, 32 and 33.*

Landfill Cell 717 is subject to the requirements of LAC 33:V.3519-3527. The Facility will continue post-closure care for these units for at least 30 years after the date of completing closure, and the post-closure activities will consist of the monitoring and reporting of the waste containment systems in accordance with the applicable portions of LAC 33:V.Chapters 25 and 33. This unit is in its tenth year of post-closure care in accordance with Post-Closure Permit LAD 010395127-PC-3. This post-closure permit renewal application is for next segment of the 30-year post-closure care period.

2. *Any time preceding partial closure of a hazardous waste management unit subject to post-closure care requirements or final closure, or any time during the post-closure period for a particular unit, the administrative authority may, in accordance with the permit modification procedures in LAC 33:V.321:*

   a. *shorten the post-closure care period applicable to the hazardous waste management unit, or facility, if all disposal units have been closed, if he finds that the reduced period is sufficient to protect human health and the environment (e.g., leachate or groundwater monitoring results, characteristics of the hazardous wastes, application of advanced technology, or alternative disposal, treatment, or re-use techniques indicate that the hazardous waste management unit or facility is secure); or*

   b. *extend the post-closure care period applicable to the hazardous waste management unit or facility if he finds that the extended period is necessary to protect human health and the environment (e.g., leachate or groundwater monitoring results indicate a potential for migration of hazardous wastes at levels which may be harmful to human health and the environment).*

The Facility acknowledges that the LDEQ may in accordance with LAC 33:V.321 and 3521.A.2, at any time during the post-closure care period for Landfill Cell 717, shorten or lengthen the post-closure care period.

3. *The owner or operator may elect to demonstrate a shortened post-closure care period meets the requirements of Subparagraph A.2.a of this Section by using risk assessment methodology. The risk assessment must demonstrate that the*

shortened post-closure care period is protective of human health and the environment in accordance with LAC 33:I.Chapter 13.

At this time, the Facility is not requesting a shortened post-closure care period as part of this post-closure permit renewal application. The Facility recognizes that any future request must be include the risk assessment demonstration required in LAC 33:V.3521.A.2.a and LAC 33:I.Chapter 13.

B. The administrative authority may require, at partial and final closure, continuation of any of the security requirements of LAC 33:V.1507 during part or all of the post-closure period when:

1. hazardous wastes may remain exposed after completion of partial or final closure; or

2. access by the public or domestic livestock may pose a hazard to human health.

Landfill Cell 717 has been closed in accordance with a LDEQ approved closure plan and is in its tenth year of post-closure care in accordance with Post-Closure Permit LAD 010395127-PC-3. At the completion of closure and throughout the post-closure care period to date, there is no hazardous waste exposed at the Landfill Cell 717 area. In addition, as described in the response to LAC 33:V.517.B.1, the entire Facility including this landfill area is surrounded by a chain link fence that prevents access by the public or domestic livestock. Security is present at the main gates 24 hours per day, 7 days per week.

C. Post-closure use of property on or in which hazardous wastes remain after partial or final closure must never be allowed to disturb the integrity of the final cover, liner(s), or any other components of the containment system, or the function of the facility's monitoring systems, unless the administrative authority finds that the disturbance:

1. is necessary to the proposed use of the property, and will not increase the potential hazard to human health or the environment; or

2. is necessary to reduce a threat to human health or the environment.

There are no plans by the Facility to disturb the integrity of the final cover, liner (s), or any other components of the containment systems or the function of any monitoring systems of the Landfill Cell 717 area for any other future use of the property. In the event a future use would be proposed, the Facility understands a demonstration that this future use would not increase, or is necessary to reduce, the potential hazard to human or the environment will be required in accordance with LAC 33:V.3521.C.

D. All post-closure care activities must be in accordance with the provisions of the approved post-closure plan as specified in LAC 33:V.3525.

All post-closure care activities proposed for this post-closure permit renewal application will be in accordance with the approved post-closure plan and LAC 33:V.3525.

3523. Post-Closure Plan, Amendment of Plan

A. Written Plan. The owner or operator of a hazardous waste disposal unit must have a written post-closure plan. In addition, certain surface impoundments and waste piles from which the owner or operator intends to remove or decontaminate the hazardous wastes at partial or final closure are required by LAC 33:V.2911.D and 2315.C to have contingent post-closure plans. Owners or operators of surface impoundments and waste piles not otherwise required to prepare contingent post-closure plans under LAC 33:V.2315.C and 2911.D must submit a post-closure plan to the Office of Environmental Services, Permits Division within 90 days from the date that the owner or operator or administrative authority determines that the hazardous waste management unit must be closed as a landfill, subject to the requirements of LAC 33:V.3519-3527. The plan must be submitted with the permit application, in accordance with LAC 33:V.517.P, and approved by the administrative authority as part of the permit issuance procedures under these regulations. In accordance with LAC 33:V.311 the approved post-closure plan will become a condition of any hazardous waste permit issued.

A post-closure plan for Landfill Cell 717 was prepared and submitted previously to the LDEQ in accordance with the applicable regulations at that time. Subsequently, following closure of this landfill cell, Post-Closure Permit LAD 010395127-PC-3 was issued. The post-closure plan for this unit is included as part of this post-closure permit renewal application in Appendix B.

B. For each hazardous waste management unit subject to the requirements of this Section, the post-closure plan must identify the activities that will be carried on after closure of each disposal unit and the frequency of these activities, and include at least:

1. a description of the planned monitoring activities and frequencies at which they will be performed to comply with LAC 33:V.Chapters 23, 25, 27, 29, 32 and 33 during the post-closure care period; and

2. a description of the planned maintenance activities, and frequencies at which they will be performed, to ensure:

a. *the integrity of the cap and final cover or other containment systems in accordance with the requirements of LAC 33:V.Chapters 23, 25, 27, 29, 32 and 33; and*

b. *the functioning of the monitoring equipment in accordance with the requirements of LAC 33:V.Chapters 23, 25, 27, 29, 32, and 33;*

3. *the name, address, and phone number of the person or office to contact about the hazardous waste disposal unit or facility during the post-closure care period ; and*

The post-closure plan included in Appendix B identifies the activities and frequencies that have been used during the current post-closure care period for Landfill Cell 717. The planned activities and frequencies meet the requirements of LAC 33:V. Chapters 25 and 33 and 3523.B. The Facility proposes to continue using this same post-closure plan for this post-closure permit renewal application.

4. *for facilities where the administrative authority has applied alternative requirements at a regulated unit under LAC 33:V.3301.G, 3501.D, and/or 3701.D, either the alternative requirements that apply to the regulated unit or a reference to the enforceable document containing those requirements.*

The current post-closure permit for Landfill Cell 717 does not include any alternative requirements applied by the LDEQ. The Facility has assumed that no alternative requirements will be required for this post-closure permit renewal application.

C. *Until final closure of the facility, a copy of the approved post-closure plan must be furnished to the administrative authority upon request, including request by mail. After final closure has been certified, the person or office specified in LAC 33:V.3525 must keep the approved post-closure plan during the remainder of the post-closure period.*

Landfill Cell 717 has been certified closed and is currently in its tenth year of post-closure care in accordance with Post-Closure Permit LAD 010395127-PC-3. In accordance with LAC 33:V.3325.C, a copy of the post-closure permit and plan are currently maintained at the Facility and will continue to be during the remainder of the post-closure care period.

D. *Amendment of Plan. The owner or operator must submit to the Office of Environmental Services, Permits Division a written notification of or request for a permit modification to authorize a change in the approved post-closure plan in*

accordance with the applicable requirements of LAC 33:V.Chapters 3 and 7. The written notification or request must include a copy of the amended post-closure plan for review or approval by the administrative authority.

1. *The owner or operator may submit a written notification or request to the Office of Environmental Services, Permits Division for a permit modification to amend the post-closure plan at any time during the active life of the facility or during the post-closure care period.*

In the event the Facility wishes to change the post-closure plan during the post-closure care period, a written notification request for a post-closure permit modification including the proposed amended post-closure plan will be submitted to the LDEQ, Office of Environmental Services, Permits Division in accordance with LAC 33:V.Chapters 3 and 7 and 3525.D.

2. *The owner or operator must submit a written notification of or request for a permit modification to authorize a change in the approved post-closure plan whenever:*
   a. *changes in operating plans or facility design affect the approved post-closure plan; or*
   b. *there is a change in the expected year of final closure, if applicable; or*
   c. *events which occur during the active life of the facility, including partial and final closures, affect the approved post-closure plan; or*
   d. *the owner or operator requests the administrative authority to apply alternative requirements to a regulated unit under LAC 33:V.3301.G, 3501.D, and/or 3701.D.*

The Facility will submit the notification request for modification to the post-closure permit for any changes to the post-closure plan that meet the criteria described in LAC 33:V.3525.D.2.

3. *The owner or operator must submit a written request for a permit modification at least 60 days prior to the proposed change in facility design or operation, or no later than 60 days after an unexpected event has occurred which has affected the post-closure plan. An owner or operator of a surface impoundment or waste pile that intends to remove all hazardous waste at a closure and is not otherwise required to submit a contingent post-closure plan under LAC 33:V.2911.D and 2315.C must submit a post-closure plan to the Office of Environmental Services, Permits Division no later than 90 days after the date that the owner or operator or administrative authority determines that the hazardous waste management unit must be closed as a landfill, subject to the requirements of LAC 33:V.2521. The*

administrative authority will approve, disapprove or modify this plan in accordance with the procedures in LAC 33:V.Chapters 3 and 7. In accordance with LAC 33:V.311, the approved post-closure plan will become a permit condition.

The Facility will submit any written request for a post-closure permit modification for Landfill Cell 717 at least 60 days prior to the proposed change in post-closure plan or no later than 60 days after an unexpected event has occurred which has affected the post-closure plan.

4. *The administrative authority may request modifications to the plan under the conditions described in LAC 33:V.3523.D.2. The owner or operator must submit the modified plan no later than 60 days after the administrative authority's request or no later than 90 days if the unit is a surface impoundment or waste pile not previously required to prepare a contingent post-closure plan. Any modifications requested by the administrative authority will be approved, disapproved, or modified in accordance with the procedures in LAC 33:V.Chapters 3 and 7.*

In the event the LDEQ requests a modification to the post-closure plan for Landfill Cell 717 under the conditions described in LAC 33:V.3523.D.2, the Facility will submit a modified plan within 60 days of the request in accordance with LAC 33:V.3523.D.4.

E. *Certification of Completion of Post-closure Care. No later than 60 days after completion of the established post-closure care period for each hazardous waste disposal unit, the owner or operator must submit to the Office of Environmental Services, Permits Division, by registered mail, a certification that the post-closure care period for the hazardous waste disposal unit was performed in accordance with the specifications in the approved post-closure plan. The certification must be signed by the owner or operator and an independent engineer. Documentation supporting the independent registered professional engineer's certification must be furnished to the administrative authority upon request until he releases the owner or operator from the financial assurance requirements for post-closure care under LAC 33:V.3711.I.*

No later than 60 days after completion of the established post-closure care period for Landfill Cell 717, the Facility will submit to the LDEQ by registered mail a certification of completion of post-closure care in accordance with LAC 33:V.3523.E. The certification will confirm that the post-closure care period was performed in accordance with the specifications of the approved post-closure plan and permit and will be signed by the Facility and an independent engineer.

Documentation supporting the independent registered professional engineer's certification will be provided to the LDEQ upon request.

3525. Post-Closure Notices

A. No later than 60 days after certification of closure of each hazardous waste disposal unit, the owner or operator must submit to the local zoning authority, or the authority with jurisdiction over local land use, and to the Office of Environmental Services, Permits Division a record of the type, location, and quantity of hazardous wastes disposed of within each cell or other disposal unit of the facility. For hazardous wastes disposed of before January 12, 1981, the owner or operator must identify the type, location, and quantity of the hazardous wastes to the best of his knowledge and in accordance with any records he has kept.

B. Within 60 days of certification of closure of the first hazardous waste disposal unit and within 60 days of certification of closure of the last hazardous waste disposal unit, the owner or operator must:

1. record, in accordance with state law, a notation on the deed to the facility property or on some other instrument which is normally examined during the title search—that will in perpetuity notify any potential purchaser of the property that:

a. the land has been used to manage hazardous wastes; and

b. its use is restricted under LAC 33:V.Chapter 35; and

c. the survey plat and record of the type, location, and quantity of hazardous wastes disposed of within each cell or other hazardous waste disposal unit of the facility required by LAC 33:V.3517 and this Section have been filed with the local zoning authority or the authority with jurisdiction over local land use and with the administrative authority; and

2. submit a certification, signed by the owner or operator, that he has recorded the notation specified in Paragraph B.1 of this Section, including a copy of the document in which the notation has been placed, to the administrative authority.

As required by LAC 33:V.3525.A and B, the Facility has submitted a certification and deed restriction notification to both the East Baton Rouge City Parish and LDEQ for Landfill Cell 717 (November 14 and 16, 1995, respectively). Copies of this deed restriction and certification notifications are provided in Appendix L.

C. If the owner or operator or any subsequent owner or operator of the land upon which a hazardous waste disposal unit is located wishes to remove hazardous wastes and hazardous waste residues, the liner, if any, or contaminated soils, he must request a modification to the post-closure permit in accordance with the applicable requirements in LAC 33:V.Chapters 3 and 7. The owner or operator must demonstrate that the removal of hazardous wastes will satisfy the criteria of

LAC 33:V.3521. By removing hazardous waste, the owner or operator may become a generator of hazardous waste and must manage it in accordance with all applicable requirements of this Chapter. If he is granted a permit modification or otherwise granted approval to conduct such removal activities, the owner or operator may request that the administrative authority approve either:

1. *the removal of the notation on the deed to the facility property or other instrument normally examined during title search; or*
2. *the addition of a notation to the deed or instrument indicating the removal of the hazardous waste.*

The Facility has no plans at this time to disturb or remove the wastes, liners, etc. from the secure Landfill Cell 717 area. In the event the Facility wishes to pursue these options, the request to do so will be made in accordance with LAC 33:V.3525.C.

3527. Certification of Completion of Post-Closure Care

A. *No later than 60 days after completion of the established post-closure care period for each hazardous waste disposal unit, the owner or operator must submit to the Office of Environmental Services, Permits Division, by registered mail, a certification that the post-closure care period for the hazardous waste disposal unit was performed in accordance with the specifications in the approved post-closure plan. The certification must be signed by the owner or operator and an independent registered professional engineer. Documentation supporting the independent registered professional engineer's certification must be furnished to the administrative authority upon request until he releases the owner or operator from the financial assurance requirements for post-closure care under LAC 33:V.3711.I.*

No later than 60 days after completion of the established post-closure care period for Landfill Cell 717, the Facility will submit to the LDEQ by registered mail a certification of completion of post-closure care in accordance with LAC 33:V.3523.E. The certification will confirm that the post-closure care period was performed in accordance with the specifications of the approved post-closure plan and permit, be signed by the Facility and an independent engineer. Documentation supporting the independent registered professional engineer's certification will be provided to the LDEQ upon request.

Chapter 37

Financial Requirements

3701. Applicability

A. The requirements of this Chapter apply to owners and operators of all hazardous waste facilities, except as provided otherwise in this Part.

Clean Harbors Baton Rouge, LLC (the "Facility") acknowledges the applicability of some portions of this chapter for purposes of this Post-Closure Permit Renewal Application

B. The requirements of LAC 33:V.3709 and 3711 apply only to owners and operators of:

1. *disposal facilities;*
2. *piles and surface impoundments from which the owner or operator intends to remove the wastes at closure, to the extent that these sections are made applicable to such facilities in LAC 33:V.Chapters 23 and 29;*
3. *tank systems that are required under LAC 33:V.1915 to meet the requirements for landfills; and*
4. *containment buildings that are required under LAC 33:V.1803 to meet the requirements for landfills.*

Landfill Cell 717 is a disposal unit at the Facility that has been closed and is in the post-closure care monitoring period as required by the current post-closure permit. As a result, only the financial requirements, with respect to post-closure care, apply. The LDEQ approved the closure of this landfill cell and released the Facility from the financial assurance requirements for closure in a letter dated December 18, 1995 (Appendix L).

C. States and the federal government are exempt from the requirements of this Chapter.

[Comment: The permit application should include a description of the financial structure of the operating unit including capital structure, principal ownership, and insurance coverage for personal injury and property damage.]

This section is not applicable.

D. The administrative authority may replace all or part of the requirements of this Chapter applying to a regulated unit with alternative requirements for financial assurance set out in the permit or in an enforceable document (as defined in LAC 33:V.305.H), where the administrative authority:

1. *prescribes alternative requirements for the regulated unit under LAC 33:V.3301.G and/or 3501.D; and*
2. *determines that it is not necessary to apply the requirements of this Chapter because the alternative financial assurance requirements will protect human health and the environment.*

The Facility recognizes the authority of LDEQ to act under this regulation as appropriate.

3703. Definitions of Terms as Used in This Chapter

A. General Terms

1. *Closure Plan—the plan for closure prepared in accordance with the requirements of LAC 33:V.Chapter 35.*
2. *Current Closure Cost Estimate—the most recent of the estimates prepared in accordance with LAC 33:V.3705.A-C.*
3. *Current Post-Closure Cost Estimate—the most recent of the estimates prepared in accordance with LAC 33:V.3709.A-C.*
4. *Parent Corporation—a corporation which directly owns at least 50 percent of the voting stock of the corporation which is the facility owner or operator; the latter corporation is deemed a subsidiary of the parent corporation.*
5. *Post-Closure Plan—the plan for the post-closure care prepared in accordance with the requirements of LAC 33:V.Chapter 35.*
6. *The following terms are used in the specifications for the financial tests for closure, post-closure care, and liability coverage. The definitions are intended to assist in the understanding of these regulations and are not intended to limit the meanings of terms in a way that conflicts with generally accepted accounting practices.*
   a. *Assets—all existing and all probable future economic benefits obtained or controlled by a particular entity.*
   b. *Current Assets—cash or other assets, or resources commonly identified as those which are reasonably expected to be realized in cash, or sold, or consumed during the normal operating cycle of the business.*

c. *Current Liabilities—obligations whose liquidation is reasonably expected to require the use of existing resources properly classifiable as current assets or the creation of other current liabilities.*

d. *Independently Audited—refers to an audit performed by an independent certified public accountant in accordance with generally accepted auditing standards.*

e. *Liabilities—probable future sacrifices of economic benefits arising from present obligations to transfer assets or provide services to other entities in the future as a result of past transactions or events.*

f. *Net Working Capital—current assets minus current liabilities.*

g. *Net Worth—total assets minus total liabilities and is equivalent to owner's equity.*

h. *Tangible Net Worth—the tangible assets that remain after deducting liabilities; such assets would not include intangibles such as goodwill and rights to patents or royalties.*

7. *Current Plugging and Abandonment Cost Estimates—most recent cost estimates prepared in accordance with 40 CFR 144.62a, b, and c, required by the Office of Conservation, or any other substantially equivalent state program.*

8. *Substantial Business Relationship—the extent of a business relationship necessary under applicable state law to make a guarantee contract issued incident to that relationship valid and enforceable. A "substantial business relationship" must arise from a pattern of recent or ongoing business transactions, in addition to the guarantee itself, such that a currently existing business relationship between the guarantor and the owner or operator is demonstrated to the satisfaction of the applicable administrative authority.*

B. *Insurance-related Terms. In the liability insurance requirements the terms bodily injury and property damage shall have the meanings given these terms by applicable state law. However, these terms do not include those liabilities which, consistent with standard industry practices, are excluded from coverage in liability policies for bodily injury and property damage. The meanings of other terms used in the liability insurance requirements are to be consistent with their common meanings within the insurance industry. The definitions of several of the terms given below are intended to assist in the understanding of these regulations and are not intended to limit their meaning in a way that conflicts with general insurance industry usage.*

1. *Accidental Occurrence—an accident, including continuous or repeated exposure to conditions, which results in bodily injury or property damage neither expected nor intended from the standpoint of the insured.*

2. *Legal Defense Costs—any expenses that an insurer incurs in defending against claims of third parties brought under the terms and conditions of an insurance policy.*

3. *Nonsudden Accidental Occurrence—an occurrence which takes place over time and involves continuous or repeated exposure.*

4. *Sudden Accidental Occurrence—an occurrence which is not continuous or repeated in nature.*

The Facility acknowledges the applicability of these definitions as they pertain.

Subchapter A. Closure Requirements

3705. Cost Estimate for Closure

A. *The owner or operator must have a detailed written estimate, in current dollars, of the cost of closing the facility in accordance with the requirements in LAC 33:V.3503-3517 and applicable closure requirements in LAC 33:V.1803, 1915, 2117, 2315, 2521, 2719, 2911, 3121, and 3203-3207.*

1. *The estimate must equal the cost of final closure at the point in the facility's active life when the extent and manner of its operation would make closure the most expensive, as indicated by its closure plan (see LAC 33:V.3511.B); and*

2. *The closure cost estimate must be based on the costs to the owner or operator of hiring a third party to close the facility. A third party is a party who is neither a parent nor a subsidiary of owner or operator in LAC 33:V.3703.A. The owner or operator may use costs for on-site disposal if he can demonstrate that on-site disposal capacity will exist at all times over the life of the facility.*

3. *The closure cost estimate may not incorporate any salvage value that may be realized with the sale of hazardous wastes or non-hazardous wastes if applicable under LAC 33:V.3513.D, facility structures or equipment, land, or other assets associated with the facility at the time of partial or final closure.*

4. *The owner or operator may not incorporate a zero cost for hazardous wastes or non-hazardous wastes if applicable under LAC 33:V.3513.D, that might have economic value.*

B. *During the active life of the facility, the owner or operator must adjust the closure cost estimate for inflation within 60 days prior to the anniversary date of the establishment of the financial instrument(s) used to comply with LAC 33:V.3707. For owners and operators using the financial test or corporate guarantee, the closure cost estimate must be updated for inflation within 30 days after the close of the firm's fiscal year and before submission of updated information to the administrative authority as specified in LAC 33:V.3707.F. The adjustment may be made by recalculating the maximum costs of closure in current dollars, or by using an inflation factor derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its Survey of Current Business, as specified in LAC 33:V.3705.B.1 and 2. The inflation factor is the result of dividing the latest published annual deflator by the deflator for the previous year.*

1. *The first adjustment is made by multiplying the closure cost estimate by the inflation factor. The result is the adjusted closure cost estimate.*
2. *Subsequent adjustments are made by multiplying the latest adjusted closure cost estimate by the latest inflation factor.*

C. *During the active life of the facility, the owner or operator must revise the closure cost estimate no later than 30 days after the administrative authority has approved the request to modify the closure plan, if the change in the closure plan increases the cost of closure. The revised closure cost estimate must be adjusted for inflation as specified in LAC 33:V.3705.B.*

D. *The owner or operator must keep, at the facility during the operating life of the facility, the latest closure cost estimate prepared as specified in LAC 33:V.3705.A and C and, when this estimate has been adjusted as specified in LAC 33:V.3705.B, the latest adjusted closure cost estimate. The cost estimate must be available to the administrative authority by mail request also.*

This section is not applicable since this portion of the Facility to which this application applies is already closed and undergoing post-closure care in accordance with Post-Closure Permit LAD 010395127-PC-3.

3707. Financial Assurance for Closure

NOTE: An owner or operator of each facility must establish financial assurance for closure of the facility. Under this Part, the owner or operator must choose from the options as specified in LAC 33:V.3707.A-F, which choice the administrative authority must find acceptable based on the application and the circumstances.

A. *Closure Trust Fund*

1. *An owner or operator may satisfy the requirements of this Part by establishing a closure trust fund which conforms to the requirements of this Subpart, and submitting an originally signed duplicate of the trust agreement to the Office of Management and Finance, Financial Services Division. An owner or operator of a new facility must submit the originally signed duplicate of the trust agreement to the administrative authority at least 60 days before the date on which hazardous waste is first received for treatment, storage, or disposal. The trustee must be an entity which has the authority to act as a trustee and whose trust operations are regulated and examined by a federal or state agency.*
2. *The wording of the trust agreement must be identical to the wording specified in LAC 33:V.3719.A.1, and the trust agreement must be accompanied by a formal certification of acknowledgment (for example, see LAC 33:V.3719.A.2). Schedule A of the trust agreement must be updated within 60 days after a change in the amount of the current closure cost estimate covered by the agreement.*
3. *Payments into the trust fund must be made annually by the owner or operator over the term of the initial permit, or over the remaining operating life of the*

facility as estimated in the closure plan, whichever period is shorter; this period is hereafter referred to as the "pay-in period." The payments into the closure trust fund must be made as follows:

a. *For a new facility, the first payment must be made before the initial receipt of hazardous waste for treatment, storage, or disposal. A receipt from the trustee for this payment must be submitted by the owner or operator to the administrative authority before this initial receipt of hazardous waste. The first payment must be at least equal to the current closure cost estimate, except as provided in LAC 33:V.3707.G divided by the number of years in the pay-in period. Subsequent payments must be made no later than 30 days after each anniversary date of the first payment. The amount of each subsequent payment must be determined by this formula:*

$$\text{Next Payment} = \frac{CE - CV}{Y}$$

where:

CE = current closure cost estimate,

CV = current value of the trust fund, and

Y = number of years remaining in the pay-in period.

b. *If an owner or operator has previously established a trust fund as specified in LAC 33:V.4403.A and the value of that trust fund is less than the current closure cost estimate when a permit under these regulations is awarded for the facility, then the amount of the current closure cost estimate still to be paid into the trust fund must be paid in over the pay-in period as defined in LAC 33:V.3707.A.3. Payments must continue to be made no later than 30 days after each anniversary date of the first payment made. The amount of each payment must be determined by this formula:*

$$\text{Next Payment} = \frac{CE - CV}{Y}$$

where:

CE = current closure cost estimate,

CV = current value of the trust fund, and

Y = number of years remaining in the pay-in period.

4. *The owner or operator may accelerate payments into the trust fund or he may deposit the full amount of the current closure cost estimate at the time the fund is established. However, he must maintain the value of the fund at no less than the value that the fund would have if annual payments were made as specified in LAC 33:V.3707.A.3.*

5. *If the owner or operator establishes a closure trust fund after having used one or more alternate mechanisms specified in this Section or in LAC 33:V.4403, his first payment must be in at least the amount that the fund would contain if the trust fund were established initially and annual payments made according to specifications of this Section and LAC 33:V.4403.A, as applicable.*

6. *After the pay-in period is completed, whenever the current closure cost estimate changes, the owner or operator must compare the new estimate with the trustee's most recent annual valuation of the trust fund. If the value of the fund is less than the amount of the new estimate, the owner or operator, within 60 days after the change in the cost estimate, must either deposit an amount into the fund so that its value after this deposit at least equals the amount of the current closure cost estimate, or obtain other financial assurance as specified in this Section to cover the difference.*

7. *If the value of the trust fund is greater than the total amount of the current closure cost estimate, the owner or operator may submit a written request to the Office of Management and Finance, Financial Services Division for release of the amount in excess of the current closure cost estimate.*

8. *If an owner or operator substitutes other financial assurance as specified in this Part for all or part of the trust fund, he may submit a written request to the Office of Management and Finance, Financial Services Division for release of the amount in excess of the current closure cost estimate covered by the trust fund.*

9. *Within 60 days after receiving a request from the owner or operator for release of funds as specified in LAC 33:V.3707.A.7 and A.8, the administrative authority will instruct the trustee to release to the owner or operator such funds as the administrative authority specifies in writing.*

10. *After beginning partial or final closure, an owner or operator, or any other person authorized to conduct partial or final closure may request reimbursements for partial or final closure expenditures by submitting itemized bills to the administrative authority. The owner or operator may request reimbursement for partial closure only if sufficient funds are remaining in the trust fund to cover the maximum costs of closing the facility over its operating life. Within 60 days after receiving bills for partial or final closure activities, the administrative authority will instruct the trustee to make reimbursements in those amounts as the administrative authority specifies in writing, if the administrative authority determines that the partial or final closure expenditures are in accordance with the approved closure plan, or otherwise justified. If the administrative authority has reason to believe that the maximum cost of closure over the remaining life of the facility will be significantly greater than the value of the trust fund, he may withhold reimbursements of such amounts as he deems prudent until he determines, in accordance with this Section, that the owner or operator is no longer required to maintain financial assurance for final closure of the facility. If the administrative authority does not instruct the trustee to make such reimbursements, he will provide the owner or operator with a detailed written statement of reasons.*

11. The administrative authority will agree to termination of the trust when:

a. an owner or operator substitutes alternate financial assurance as specified in this Part; or

b. the administrative authority releases the owner or operator from the requirements of this Part in accordance with LAC 33:V.3707.I.

B. Surety Bond Guaranteeing Payment Into a Closure Trust Fund

1. An owner or operator may satisfy the requirements of this Part by obtaining a surety bond which conforms to the requirements of this Paragraph and submitting the bond to the Office of Management and Finance, Financial Services Division. An owner or operator of a new facility must submit the bond to the administrative authority at least 60 days before the date on which hazardous waste is first received for treatment, storage, or disposal. The bond must be effective before this initial receipt of hazardous waste. The surety company issuing the bond must, at a minimum, be among those listed as acceptable sureties on federal bonds in Circular 570 of the U.S. Department of the Treasury, and approved by the administrative authority.

2. The wording of the surety bond must be identical to the wording specified in LAC 33:V.3719.B.

3. The owner or operator who uses a surety bond to satisfy the requirements of this Part must also establish a standby trust fund. Under the terms of the bond, all payments made thereunder will be deposited by the surety directly into the standby trust fund in accordance with instructions from the administrative authority. This standby trust fund must meet the requirements specified in LAC 33:V.3707.A except that:

a. an originally signed duplicate of the trust agreement must be submitted to the administrative authority with the surety bond; and

b. until the standby trust fund is funded pursuant to the requirements of this Part, the following are not required by these regulations:

i. payments into the trust fund as specified in LAC 33:V.3707.A;

ii. updating of Schedule A of the trust agreement to show current closure cost estimates;

iii. annual valuations as required by the trust agreement; and

iv. notices of nonpayment as required by the trust agreement.

4. The bond must guarantee that the owner or operator will:

a. fund the standby trust fund in an amount equal to the penal sum of the bond before the beginning of final closure of the facility; or

b. fund the standby trust fund in an amount equal to the penal sum within 15 days after an order to begin final closure is issued by the administrative authority, or court of competent jurisdiction; or

c. *provide alternate financial assurance as specified in this Part and obtain the administrative authority's written approval of the assurance provided, within 90 days after receipt by both the owner or operator and the administrative authority of a notice of cancellation of the bond from the surety.*

5. *Under the terms of the bond, the surety will become liable on the bond obligation when the owner or operator fails to perform as guaranteed by the bond.*

6. *The penal sum of the bond must be in an amount at least equal to the current closure cost estimate, except as provided in LAC 33:V.3707.G*

7. *Whenever the current closure cost estimate increases to an amount greater than the penal sum, the owner or operator, within 60 days after the increase, must either cause the penal sum to be increased to an amount at least equal to the current closure cost estimate and submit evidence of such increase to the Office of Management and Finance, Financial Services Division, or obtain other financial assurance as specified in this Part to cover the increase. Whenever the current closure cost estimate decreases, the penal sum may be reduced to the amount of the current closure cost estimate following written approval by the administrative authority.*

8. *Under the terms of the bond, the surety may cancel the bond by sending notice of cancellation by certified mail to the owner or operator, and to the administrative authority. Cancellation may not occur, however, during the 120 days beginning on the date of receipt of the notice of cancellation by both the owner or operator and the administrative authority, as evidenced by the return receipts.*

9. *The owner or operator may cancel the bond if the administrative authority has given prior written consent based on his receipt of evidence of alternate financial assurance as specified in this Part.*

C. *Surety Bond Guaranteeing Performance of Closure*

1. *An owner or operator may satisfy the requirements of this Section by obtaining a surety bond which conforms to the requirements of this Subsection and submitting the bond to the Office of Management and Finance, Financial Services Division. An owner or operator of a new facility must submit the bond to the administrative authority at least 60 days before the date on which hazardous waste is first received for treatment, storage, or disposal. The bond must be effective before this initial receipt of hazardous waste. The surety company issuing the bond must, at a minimum, be among those listed as acceptable sureties on federal bonds in Circular 570 of the U.S. Department of the Treasury, and approved by the administrative authority.*

2. *The wording of the surety bond must be identical to the wording specified in LAC 33:V.3719.C.*

3. *The owner or operator who uses a surety bond to satisfy the requirements of this Section must also establish a standby trust fund. Under the terms of the bond, all payments made thereunder will be deposited by the surety directly into the standby trust fund in accordance with instructions from the administrative*

authority. This standby trust must meet the requirements specified in Subsection A of this Section except that:

a. *an originally signed duplicate of the trust agreement must be submitted to the administrative authority with the surety bond; and*

b. *unless the standby trust fund is funded pursuant to the requirements of this Section, the following are not required by these regulations:*

i. *payments into the trust fund as specified in LAC 33:V.3707.A;*

ii. *updating of Schedule A of the trust agreement (for example, see LAC 33:V.Chapter 37) to show current closure cost estimates;*

iii. *annual valuations as required by the trust agreement; and*

iv. *notices of nonpayment as required by the trust agreement.*

4. *The bond must guarantee that the owner or operator will:*

a. *perform final closure in accordance with the closure plan and other requirements of the permit for the facility whenever required to do so; or*

b. *provide alternate financial assurance as specified in this Part, and obtain the administrative authority's written approval of the assurance provided, within 90 days after receipt of both the owner or operator, and the administrative authority of a notice of cancellation of the bond from the surety.*

5. *Under the terms of the bond, the surety will become liable on the bond obligation when the owner or operator fails to perform as guaranteed by the bond. Following a final administrative determination by the administrative authority pursuant to R.S. 30:2025 that the owner or operator has failed to perform final closure in accordance with the approved closure plan and other permit requirements when required to do so, under the terms of the bond the surety will perform final closure as guaranteed by the bond or will deposit the amount of the penal sum into the standby trust fund.*

6. *The penal sum of the bond must be in an amount at least equal to the current closure cost estimate.*

7. *Whenever the current closure cost estimate increases to an amount greater than the penal sum, the owner or operator, within 60 days after the increase, must either cause the penal sum to be increased to an amount at least equal to the current closure cost estimate and submit evidence of such increase to the Office of Management and Finance, Financial Services Division, or obtain other financial assurance as specified in this Part. Whenever the current closure cost estimate decreases, the penal sum may be reduced to the amount of the current closure cost estimate following written approval by the administrative authority.*

8. *Under the terms of the bond, the surety may cancel the bond by sending notice of cancellation by certified mail to the owner or operator and to the administrative authority. Cancellation may not occur, however, during the 120 days beginning on*

the date of receipt of the notice of cancellation by both the owner or operator and the administrative authority, as evidenced by the return receipts.

9. *The owner or operator may cancel the bond if the administrative authority has given prior written consent. The administrative authority will provide such written consent when:*

   a. *an owner or operator substitutes alternate financial assurance as specified in this Part; or*

   b. *the administrative authority releases the owner or operator from the requirements of this Part in accordance with LAC 33:V.3707.I.*

10. *The surety will not be liable for deficiencies in the performance of closure by the owner or operator after the administrative authority releases the owner or operator from the requirements of this Part in accordance with LAC 33:V.3707.I.*

D. *Closure Letter of Credit*

1. *An owner or operator may satisfy the requirements of this Section by obtaining an irrevocable standby letter of credit which conforms to the requirements of this Subsection and submitting the letter to the Office of Management and Finance, Financial Services Division. An owner or operator of a new facility must submit the letter of credit to the administrative authority at least 60 days before the date on which hazardous waste is first received for treatment, storage, or disposal. The letter of credit must be effective before the initial receipt of hazardous waste. The issuing institution must be an entity which has the authority to issue letters of credit and whose letter-of-credit operations are regulated and examined by a federal or state agency.*

2. *The wording of the letter of credit must be identical to the wording specified in LAC 33:V.3719.D.*

3. *An owner or operator who uses a letter of credit to satisfy the requirements of this Section must also establish a standby trust fund. Under the terms of the letter of credit, all amounts paid pursuant to a draft by the administrative authority will be deposited by the issuing institution directly into the standby trust fund in accordance with instructions from the administrative authority. This standby trust fund must meet the requirements of the trust fund specified in LAC 33:V.3707.A, except that:*

   a. *an originally signed duplicate of the trust agreement must be submitted to the administrative authority with the letter of credit; and*

   b. *unless the standby trust fund is funded pursuant to the requirements of this Section, the following are not required by these regulations:*

      i. *payments into the trust fund as specified in LAC 33:V.3707.A;*

      ii. *updating of Schedule A of the trust agreement (see LAC 33:V.3719.A) to show current closure cost estimates;*

      iii. *annual valuations as required by the trust agreement; and*

iv. notices of nonpayment as required by the trust agreement.

4. *The letter of credit must be accompanied by a letter from the owner or operator referring to the letter of credit by number, issuing institution, and date, and providing the following information: the EPA identification number, name, address, and the amount of funds assured for closure of the facility by the letter of credit.*

5. *The letter of credit must be irrevocable and issued for a period of at least one year. The letter of credit must provide that the expiration date will be automatically extended for a period of at least one year unless, at least 120 days before the current expiration date, the issuing institution notifies both the owner or operator and the administrative authority by certified mail of a decision not to extend the expiration date. Under the terms of the letter of credit, the 120 days will begin on the date when both the owner or operator and the administrative authority have received the notice, as evidenced by the return receipts.*

6. *The letter of credit must be issued in an amount at least equal to the current closure cost estimate, except as provided in Subsection G of this Section.*

7. *Whenever the current closure cost estimate increases to an amount greater than the amount of the credit, the owner or operator, within 60 days after the increase, must either cause the amount of the credit to be increased so that it at least equals the current closure cost estimate and submit evidence of such increase to the Office of Management and Finance, Financial Services Division, or obtain other financial assurance as specified in this Part to cover the increase. Whenever the current closure cost estimate decreases, the amount of the credit may be reduced to the amount of the current closure cost estimate following written approval by the administrative authority.*

8. *Following a final administrative determination by the administrative authority pursuant to R.S. 30:2025 that the owner or operator has failed to perform final closure in accordance with the closure plan and other permit requirements when required to do so, the administrative authority may draw on the letter of credit.*

9. *If the owner or operator does not establish alternate financial assurance as specified in this Part, and obtain written approval of such alternate assurance from the administrative authority within 90 days after receipt by both the owner or operator and the administrative authority of a notice from the issuing institution that it has decided not to extend the letter of credit beyond the current expiration date, the administrative authority will draw on the letter of credit. The administrative authority may delay the drawing if the issuing institution grants an extension of the term of the credit. During the last 30 days of any such extension the administrative authority will draw on the letter of credit if the owner or operator has failed to provide alternate financial assurance as specified in this Part and obtain written approval of such assurance from the administrative authority.*

10. *The administrative authority will return the letter of credit to the issuing institution for termination when:*

a. *an owner or operator substitutes alternate financial assurance as specified in this Part; or*

b. *the administrative authority releases the owner or operator from the requirements of this Part in accordance with LAC 33:V.3707.I.*

E. *Closure Insurance*

1. *An owner or operator may satisfy the requirements of this Part by obtaining closure insurance which conforms to the requirements of this Paragraph and submitting a certificate of such insurance to the Office of Management and Finance, Financial Services Division. An owner or operator of a new facility must submit the certificate of insurance to the administrative authority at least 60 days before the date on which hazardous waste is first received for treatment, storage, or disposal. The insurance must be effective before this initial receipt of hazardous waste. At a minimum, the insurer must be licensed to transact the business of insurance, or be eligible to provide insurance as an excess or surplus lines insurer, in one or more states, and authorized to transact business in Louisiana.*

2. *The wording of the certificate of insurance must be identical to the wording specified in LAC 33:V.3719.E.*

3. *The closure insurance policy must be issued for a face amount at least equal to the current closure cost estimate, except as provided in LAC 33:V.3707.G. The term "face amount" means the total amount the insurer is obligated to pay under the policy. Actual payments by the insurer will not change the face amount, although the insurer's future liability will be lowered by the amount of the payments.*

4. *The closure insurance policy must guarantee that funds will be available to close the facility whenever final closure occurs. The policy must also guarantee that once final closure begins, the insurer will be responsible for paying out funds, up to an amount equal to the face amount of the policy, upon the direction of the administrative authority to such party or parties as the administrative authority specifies.*

5. *After beginning partial or final closure, an owner or operator, or any other person authorized to perform closure may request reimbursement for closure expenditures by submitting itemized bills to the administrative authority. The owner or operator may request reimbursements for partial closure only if the remaining value of the policy is sufficient to cover the maximum costs of closing the facility over its remaining operating life. Within 60 days after receiving bills for closure activities, the administrative authority will instruct the insurer to make reimbursements in such amounts as the administrative authority specifies in writing, if the administrative authority determines that the partial or final closure expenditures are in accordance with the approved closure plan or otherwise justified. If the administrative authority has reason to believe that the maximum cost of closure over the remaining life of the facility will be significantly greater than the face amount of the policy, he may withhold reimbursements of such*

amounts as he deems prudent until he determines, in accordance with LAC 33:V.3707.I, that the owner or operator is no longer required to maintain financial assurance for final closure of the facility. If the administrative authority does not instruct the insurer to make such reimbursements, he will provide the owner or operator with a detailed written statement of reasons.

6. *The owner or operator must maintain the policy in full force and effect until the administrative authority consents to termination of the policy by the owner or operator as specified in LAC 33:V.3707.E.10. Failure to pay the premium, without substitution of alternate financial assurance as specified in this Part, will constitute a significant violation of these regulations, warranting such remedy as the administrative authority deems necessary. Such violation will be deemed to begin upon receipt by the administrative authority of a notice of future cancellation, termination, or failure to renew, due to nonpayment of the premium, rather than upon the date of expiration.*

7. *Each policy must contain a provision allowing assignment of the policy to a successor owner or operator. Such assignment may be conditional upon consent of the insurer, provided such consent is not unreasonably refused.*

8. *The policy must provide that the insurer may not cancel, terminate, or fail to renew the policy except for failure to pay the premium. The automatic renewal of the policy must, at a minimum, provide the insured with the option of renewal at the face amount of the expiring policy. If there is a failure to pay the premium, the insurer may elect to cancel, terminate, or fail to renew the policy by sending notice by certified mail to the owner or operator and the administrative authority. Cancellation, termination, or failure to renew may not occur, however, during the 120 days beginning with the date of receipt of the notice by both the administrative authority and the owner or operator, as evidenced by the return receipts. Cancellation, termination, or failure to renew may not occur and the policy will remain in full force and effect in the event that on or before the date of expiration:*

   a. *the administrative authority deems the facility abandoned; or*

   b. *the permit is terminated or revoked, or a new permit is denied; or*

   c. *closure is ordered by the administrative authority or a U.S. District Court or other court of competent jurisdiction; or*

   d. *the owner or operator is named as debtor in a voluntary or involuntary proceeding under Title 11 (Bankruptcy), U.S. Code; or*

   e. *the premium due is paid.*

9. *Whenever the current closure cost estimate increases to an amount greater than the face amount of the policy, the owner or operator, within 60 days after the increase, must either cause the face amount to be increased to an amount at least equal to the current closure cost estimate, and submit evidence of such increase to the Office of Management and Finance, Financial Services Division, or obtain other financial assurance as specified in this Part to cover the increase. Whenever*

the current closure cost estimate decreases, the face amount may be reduced to the amount of the current closure cost estimate following written approval by the administrative authority.

10. *The administrative authority will give written consent to the owner or operator that he may terminate the insurance policy when:*

    a. *an owner or operator substitutes alternate financial assurance as specified in this Part; or*

    b. *the administrative authority releases the owner or operator from the requirements of this Part in accordance with LAC 33:V.3707.I.*

F. *Financial Test and Corporate Guarantee for Closure*

1. *An owner or operator may satisfy the requirements of this Section by demonstrating that he passes a financial test as specified in this Section. To pass this test the owner or operator must meet the criteria of either of the following.*

    a. *The owner or operator must have:*

        i. *two of the following three ratios: a ratio of total liabilities to net worth less than 2.0; a ratio of the sum of net income plus depreciation, depletion, and amortization to total liabilities greater than 0.1; and a ratio of current assets to current liabilities greater than 1.5; and*

        ii. *net working capital and tangible net worth each at least six times the sum of the current closure and post-closure cost estimates and the current plugging and abandonment cost estimates; and*

        iii. *tangible net worth of at least $10 million; and*

        iv. *assets located in the United States amounting to at least 90 percent of his total assets or at least six times the sum of the current closure and post-closure cost estimates and the current plugging and abandonment cost estimates.*

    b. *The owner or operator must have:*

        i. *a current rating for his most recent bond issuance of AAA, AA, A, or BBB as issued by Standard and Poor's or Aaa, Aa, A, or Baa as issued by Moody's; and*

        ii. *tangible net worth at least six times the sum of the current closure and post-closure cost estimates and the current plugging and abandonment cost estimates; and*

        iii. *tangible net worth of at least $10 million; and*

        iv. *assets located in the United States amounting to at least 90 percent of his total assets or at least six times the sum of the current closure and post-closure cost estimates and the current plugging and abandonment cost estimates.*

2. *The phrase "current closure and post-closure cost estimates" as used in Paragraph F.1 of this Section refers to the cost estimates required to be shown in Paragraphs 1-4 of the letter from the owner's or operator's chief financial officer*

(see LAC 33:V.3719.F). The phrase "current plugging and abandonment cost estimates" used in Paragraph F.1 of this Section refers to the cost estimates required to be shown in Paragraphs 1-4 of the letter from the owner's or operator's chief financial officer (40 CFR 144.70.f)

3. *To demonstrate that he meets this test, the owner or operator must submit the following items to the Office of Management and Finance, Financial Services Division:*

   a. *a letter signed by the owner's or operator's chief financial officer and worded as specified in LAC 33:V.3719.F; and*

   b. *a copy of the independent certified public accountant's report on examination of the owner's or operator's financial statements for the latest completed fiscal year; and*

   c. *a special report from the owner's or operator's independent certified public accountant to the owner or operator stating that:*

      i. *he has compared the data with the letter from the chief financial officer specified as having been derived from the independently audited, year-end financial statements for the latest fiscal year with the amounts in such financial statements; and*

      ii. *in connection with that procedure, no matters came to his attention which caused him to believe that the specified data should be adjusted.*

4. *An owner or operator of a new facility must submit the items specified in LAC 33:V.3707.F.3 to the Office of Environmental Services at least 60 days before the date on which hazardous waste is first received for disposal.*

5. *After the initial submission of items specified in LAC 33:V.3707.F.3, the owner or operator must send updated information to the Office of Environmental Services within 90 days after the close of each succeeding fiscal year. This information must consist of all three items specified in LAC 33:V.3707.F.3.*

6. *If the owner or operator no longer meets the requirements of LAC 33:V.3707.F.1, he must send notice to the Office of Environmental Services of intent to establish alternate financial assurance as specified in this Part. The notice must be sent by certified mail within 90 days after the end of the fiscal year for which the year-end financial data show that the owner or operator no longer meets the requirements. The owner or operator must provide the alternate financial assurance within 120 days after the end of such fiscal year.*

7. *The administrative authority may, based on a reasonable belief that the owner or operator may no longer meet the requirements of LAC 33:V.3707.F.1, require reports of financial condition at any time from the owner or operator in addition to those specified in LAC 33:V.3707.F.3. If the administrative authority finds, on the basis of such reports or other information, that the owner or operator no longer meets the requirements of LAC 33:V.3707.F.1, the owner or operator must*

provide alternate financial assurance as specified in this Part within 30 days after notification of such a finding.

8. *The administrative authority may disallow use of this test on the basis of qualifications in the opinion expressed by the independent certified public accountant in his report on examination of the owner's or operator's financial statements (see LAC 33:V.3707.F.3). An adverse opinion or a disclaimer of opinion will be cause for disallowance. The administrative authority will evaluate other qualifications on an individual basis. Based on the application, the circumstances and the accessibility of the applicant's assets, the administrative authority may disallow the use of this test. The owner or operator must provide alternate financial assurance as specified in this Part within 30 days after notification of the disallowance.*

9. *The owner or operator is no longer required to submit the items specified in LAC 33:V.3707.F.3 when:*

   a. *an owner or operator substitutes alternate financial assurance as specified in this Part; or*

   b. *the administrative authority releases the owner or operator from the requirements of this Part in accordance with LAC 33:V.3707.I.*

10. *An owner or operator may meet the requirements of this Section by obtaining a written guarantee. The guarantor must be the direct or higher tier parent corporation of the owner or operator, a firm whose parent corporation is also the parent corporation of the owner or operator, or a firm with a "substantial business relationship" with the owner or operator. The guarantor must meet the requirements of LAC 33:V.3707.F.1-8 for owners or operators, and must comply with the terms of the guarantee. The wording of the guarantee must be identical to the wording specified in LAC 33:V.3719.H. A certified copy of the guarantee must accompany the items sent to the administrative authority as specified in LAC 33:V.3707.F.3. One of these items must be the letter from the guarantor's chief financial officer. If the guarantor's parent corporation is also the parent corporation of the owner or operator, the letter must describe the value received in consideration of the guarantee. If the guarantor is a firm with a "substantial business relationship" with the owner or operator, this letter must describe this "substantial business relationship" and the value received in consideration of the guarantee. The terms of the corporate guarantee must provide that:*

   a. *if the owner or operator fails to perform final closure of a facility covered by the guarantee in accordance with the closure plan and other permit requirements whenever required to do so, the guarantor will do so or establish a trust fund as specified in LAC 33:V.3707.A in the name of the owner or operator.*

   b. *the guarantee will remain in force unless the guarantor sends notice of cancellation by certified mail to the owner or operator, and to the administrative authority. Cancellation may not occur, however, during the 120 days beginning on the date of receipt of the notice of cancellation by both the*

owner or operator and the administrative authority, as evidenced by the return receipts.

c. *if the owner or operator fails to provide alternate financial assurance as specified in this Section and obtain the written approval of such alternate assurance from the administrative authority within 90 days after receipt by the owner or operator and the administrative authority of a notice of cancellation of the corporate guarantee from the guarantor, the guarantor will provide such alternative financial assurance in the name of the owner or operator.*

G. *Use of Multiple Financial Mechanisms. An owner or operator may satisfy the requirements of this Section by establishing more than one financial mechanism per facility. These mechanisms are limited to trust funds, surety bonds guaranteeing payment into a trust fund, letters of credit, and insurance. The mechanisms must be as specified in Subsections A, B, D, and E of this Section, respectively, except that it is the combination of mechanisms, rather than the single mechanism, that must provide financial assurance for an amount at least equal to the current closure cost estimate. If an owner or operator uses a trust fund in combination with a surety bond or a letter of credit, he may use the trust fund as the standby trust fund for the other mechanism. A single trust fund may be established for two or more mechanisms. The administrative authority may use any or all of the mechanisms to provide for closure of the facility.*

H. *Use of a Financial Mechanism for Multiple Facilities. An owner or operator may use a financial assurance mechanism specified in this Section to meet the requirements of this Section for more than one facility. Evidence of financial assurance submitted to the administrative authority must include a list showing, for each facility, the EPA identification number, name, address, and the amount of funds for closure assured by the mechanism. The amount of funds available through the mechanism must be no less than the sum of funds that would be available if a separate mechanism had been established and maintained for each facility. In directing the funds available through the mechanism for closure of any of the facilities covered by the mechanism, the administrative authority may direct only the amount of funds designated for that facility, unless the owner or operator agrees to the use of additional funds available under the mechanism.*

I. *Release of the Owner or Operator from the Requirements of this Section. Within 60 days after receiving certifications from the owner or operator and an independent registered professional engineer that final closure has been completed in accordance with the approved closure plan, and for facilities subject to LAC 33:V.3525, after receiving the certification required under LAC 33:V.3525.B.2, the administrative authority will notify the owner or operator in writing that he is no longer required by this Section to maintain financial assurance for final closure of the particular facility, unless the administrative authority has reason to believe that final closure has not been in accordance with the approved closure plan or that the owner or operator has failed to comply with the applicable requirements of LAC 33:V.3525. The administrative authority shall provide the owner or operator a detailed written statement of any such reason to believe that closure has not been in*

accordance with the approved closure plan or that the owner or operator has failed to comply with the applicable requirements of LAC 33:V.3525.

The requirements of LAC 33:V.3707 are not applicable since this portion of the Facility to which this application applies is already closed.

Subchapter B. Post-Closure Requirements

3709. Cost Estimate for Post-Closure Care

A. *The owner or operator of a disposal surface impoundment, disposal miscellaneous unit, land treatment unit, or landfill unit, or of a surface impoundment or waste pile required under LAC 33:V.2315 and 2911 to prepare a contingent closure and post-closure plan, must have a detailed written estimate, in current dollars, of the annual cost of post-closure monitoring and maintenance of the facility in accordance with the applicable post-closure regulations in LAC 33:V.3519, 3527, 2315, 2521, 2719, 2911, and 3207.*

1. *The post-closure cost estimate must be based on the costs to the owner or operator of hiring a third party to conduct post-closure care activities. A third party is a party who is neither a parent nor a subsidiary of the owner or operator. (See definition of parent corporation in LAC 33:V.3703.)*
2. *The post-closure cost estimate is calculated by multiplying the annual post-closure cost estimate by the number of years of post-closure care required under LAC 33:V.3523.*

The Facility's estimate for Post-Closure Costs is included in Appendix D.

B. *During the active life of the facility, the owner or operator must adjust the post-closure cost estimate for inflation within 60 days prior to the anniversary date of the establishment of the financial instrument(s) used to comply with LAC 33:V.3711. For owners or operators using the financial test or corporate guarantee, the post-closure cost estimate must be updated for inflation within 30 days after the close of the firm's fiscal year and before the submission of updated information to the administrative authority as specified in LAC 33:V.3711.F.5. The adjustment may be made by recalculating the post-closure cost estimate in current dollars or by using an inflation factor derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its Survey of Current Business as specified in LAC 33:V.3709.B.1 and B.2. The inflation factor is the result of dividing the latest published annual deflator by the deflator for the previous year.*

1. *The first adjustment is made by multiplying the post-closure cost estimate by the inflation factor. The result is the adjusted post-closure cost estimate.*

2. *Subsequent adjustments are made by multiplying the latest adjusted post-closure cost estimate by the latest inflation factor.*

The Facility has continued to adjust the cost estimate for Post-Closure in accordance with the above requirements.

C. *During the active life of the facility, the owner or operator must revise the post-closure cost estimate within 30 days after the administrative authority has approved the request to modify the post-closure plan, if the change in the post-closure plan increases the cost of post-closure care. The revised post-closure cost estimate must be adjusted for inflation as specified in LAC 33:V.3709.B.*

This regulation is not applicable since the Facility has not requested a modification to the Post-Closure Plan such that it would increase the cost of post-closure care.

D. *The owner or operator must keep the following at the facility during the operating life of the facility: the latest post-closure cost estimate prepared in accordance with LAC 33:V.3709.A and C and, when this estimate has been adjusted, the latest adjusted post-closure cost estimate.*

The Facility maintains the post-closure cost estimate as a part of the Facility Operating Record in accordance with the above requirement.

3711. Financial Assurance for Post-Closure Care

The owner or operator of a hazardous waste management unit subject to the requirements of LAC 33:V.3709 must establish financial assurance for post-closure care in accordance with the approved post-closure plan for the facility 60 days prior to the initial receipt of hazardous waste or the effective date of the regulation, whichever is later. Under this Section, the owner or operator must choose from the options as specified in Subsections A-F of this Section, which choice the administrative authority must find acceptable based on the application and the circumstances.

A. *Post-Closure Trust Fund*

1. *An owner or operator may satisfy the requirements of this Part by establishing a post-closure trust fund which conforms to the requirements of this Paragraph and submitting an originally signed duplicate of the trust agreement to the Office of Management and Finance, Financial Services Division. An owner or operator of a new facility must submit the originally signed duplicate of the trust agreement to the administrative authority at least 60 days before the date on which hazardous waste is first received for disposal. The trustee must be an entity which has the*

authority to act as a trustee and whose trust operations are regulated and examined by a federal or state agency.

2. *The wording of the trust agreement must be identical to the wording specified in LAC 33:V.3719.A.1, and the trust agreement must be accompanied by a formal certification of acknowledgment (for example, see LAC 33:V.3719.A.2). Schedule A of the trust agreement must be updated within 60 days after a change in the amount of the current post-closure cost estimate covered by the agreement.*

3. *Payments into the trust fund must be made annually by the owner or operator over the term of the initial permit, or over the remaining operating life of the facility as estimated in the closure plan, whichever period is shorter; this period is hereafter referred to as the "pay-in period." The payments into the post-closure trust fund must be made as follows.*

   a. *For a new facility, the first payment must be made before the initial receipt of hazardous waste for disposal. A receipt from the trustee for this payment must be submitted by the owner or operator to the administrative authority before this initial receipt of hazardous waste. The first payment must be at least equal to the current post-closure cost estimate, except as provided in LAC 33:V.3711.G, divided by the number of years in the pay-in period. Subsequent payments must be made no later than 30 days after each anniversary date of the first payment. The amount of each subsequent payment must be determined by this formula.*

$$Next\ Payment = \frac{CE - CV}{Y}$$

   where:

   CE = current post-closure cost estimate,

   CV = current value of the trust fund, and

   Y = number of years remaining in the pay-in period.

   b. *If an owner or operator has previously established a trust fund as specified in LAC 33:V.4407.A, and the value of that trust fund is less than the current post-closure cost estimate when a permit under these regulations is awarded for the facility, the amount of the current post-closure cost estimate still to be paid into the fund must be paid in over the pay-in period as defined in LAC 33:V.3711.A.3. Payments must continue to be made no later than 30 days after each anniversary date of the first payment made. The amount of each payment must be determined by this formula.*

$$Next\ Payment = \frac{CE - CV}{Y}$$

   where:

CE= current post-closure cost estimate,

CV = current value of the trust fund, and

Y = the number of years remaining in the pay-in period.

4. *The owner or operator may accelerate payments into the trust fund or he may deposit the full amount of the current post-closure cost estimate at the time the fund is established. However, he must maintain the value of the fund at no less than the value that the fund would have if annual payments were made as specified in LAC 33:V.3711.A.3.*
5. *If the owner or operator establishes a post-closure trust fund after having used one or more alternate mechanisms specified in this Section or in LAC 33:V.4407, his first payment must be in at least the amount that the fund would contain if the trust fund were established initially and if annual payments were made according to specifications of this Subsection and LAC 33:V.4407, as applicable.*
6. *After the pay-in period is completed, whenever the current post-closure cost estimate changes during the operating life of the facility, the owner or operator must compare the new estimate with the trustee's most recent annual valuation of the trust fund. If the value of the fund is less than the amount of the new estimate, the owner or operator, within 60 days after the change in the cost estimate, must either deposit an amount into the fund so that the fund at least equals the amount of the current post-closure cost estimate, or obtain other financial assurance as specified in this Part to cover the difference.*
7. *During the operating life of the facility, if the value of the trust fund is greater than the total amount of the current post-closure cost estimate, the owner or operator may submit a written request to the Office of Management and Finance, Financial Services Division for release of the amount in excess of the current post-closure cost estimate.*
8. *If an owner or operator substitutes other financial assurance as specified in this Part for all or part of the trust fund, he may submit a written request to the Office of Management and Finance, Financial Services Division for release of the amount in excess of the current post-closure cost estimate covered by the trust fund.*
9. *Within 60 days after receiving a request from the owner or operator for release of funds as specified in LAC 33:V.3711.A.7 or 8, the administrative authority will instruct the trustee to release to the owner or operator such funds as the administrative authority specifies in writing.*
10. *During the period of post-closure care, the administrative authority may approve a release of funds if the owner or operator demonstrates to the administrative authority that the value of the trust fund exceeds the remaining cost of post-closure care.*

11. *An owner or operator, or any other person authorized to perform post-closure care, may request reimbursement for the post-closure expenditures by submitting itemized bills to the administrative authority. Within 60 days after receiving bills for post-closure activities, the administrative authority will instruct the trustee to make reimbursements in those amounts as the administrative authority specifies in writing, if the administrative authority determines that the post-closure care expenditures are in accordance with the approved post-closure plan or otherwise justified. If the administrative authority does not instruct the trustee to make such reimbursements, he will provide the owner or operator with a detailed written statement of reasons.*

12. *The administrative authority will agree to termination of the trust when:*

    a. *an owner or operator substitutes alternate financial assurance as specified in this Part; or*

    b. *the administrative authority releases the owner or operator from the requirements of this Section in accordance with Subsection I of this Section.*

B. *Surety Bond Guaranteeing Payment into a Post-closure Trust Fund*

1. *An owner or operator may satisfy the requirements of this Section by obtaining a surety bond which conforms to the requirements of this Subsection and submitting the bond to the Office of Environmental Services. An owner or operator of a new facility must submit the bond to the administrative authority at least 60 days before the date on which hazardous waste is first received for disposal. The bond must be effective before this initial receipt of hazardous waste. The surety company issuing the bond must, at a minimum, be among those listed as acceptable sureties on federal bonds in Circular 570 of the U.S. Department of the Treasury, and approved by the administrative authority.*

2. *The wording of the surety bond must be identical to the wording specified in LAC 33:V.3719.B.*

3. *The owner or operator who uses a surety bond to satisfy the requirements of this Part must also establish a standby trust fund. Under the terms of the bond, all payments made thereunder will be deposited by the surety directly into the standby trust fund in accordance with instructions from the administrative authority. This standby trust fund must meet the requirements specified in LAC 33:V.3711.A except that:*

    a. *an originally signed duplicate of the trust agreement must be submitted to the administrative authority with the surety bond; and*

    b. *until the standby trust fund is funded pursuant to the requirements of this Part, the following are not required by these regulations:*

        i. *payments into the trust fund as specified in LAC 33:V.3711.A.3;*

        ii. *updating of Schedule A of the trust agreement to show current post-closure cost estimates;*

        iii. *annual valuations as required by the trust agreement; and*

iv. notices of nonpayment as required by the trust agreement.

4. *The bond must guarantee that the owner or operator will:*

   a. *fund the standby trust fund in an amount equal to the penal sum of the bond before the beginning of final closure of the facility; or*

   b. *fund the standby trust fund in an amount equal to the penal sum within 15 days after an order to begin final closure issued by the administrative authority becomes final, or within 15 days after an order to begin final closure is issued by a U.S. district court or other court of competent jurisdiction; or*

   c. *provide alternate financial assurance as specified in this Part, and obtain the administrative authority's written approval of the assurance provided within 90 days after receipt by both the owner or operator and the administrative authority of a notice of cancellation of the bond from the surety.*

5. *Under the terms of the bond, the surety will become liable on the bond obligation when the owner or operator fails to perform as guaranteed by the bond.*

6. *The penal sum of the bond must be in an amount at least equal to the current post-closure cost estimate, except as provided in LAC 33:V.3711.G*

7. *Whenever the current post-closure cost estimate increases to an amount greater than the penal sum, the owner or operator, within 60 days after the increase, must either cause the penal sum to be increased to an amount at least equal to the current post-closure cost estimate and submit evidence of such increase to the Office of Management and Finance, Financial Services Division, or obtain other financial assurance as specified in this Part to cover the increase. Whenever the current post-closure cost estimate decreases, the penal sum may be reduced to the amount of the current post-closure cost estimate following written approval by the administrative authority.*

8. *Under the terms of the bond, the surety may cancel the bond by sending notice of cancellation by certified mail to the owner or operator, and to the Office of Environmental Services. Cancellation may not occur, however, during the 120 days beginning on the date of receipt of the notice of cancellation by both the owner or operator and the administrative authority, as evidenced by the return receipts.*

9. *The owner or operator may cancel the bond if the administrative authority has given prior written consent based on his receipt of evidence of alternate financial assurance as specified in this Part.*

C. *Surety Bond Guaranteeing Performance of Post-Closure Care*

1. *An owner or operator of a facility which has been issued a standard permit may satisfy the requirements of this Section by obtaining a surety bond which conforms to the requirements of this Subsection and by submitting the bond to the Office of Environmental Services. An owner or operator of a new facility must submit the bond to the administrative authority at least 60 days before the date on which hazardous waste is first received for disposal. The bond must be effective before*

this initial receipt of hazardous waste. The surety company issuing the bond must, at a minimum, be among those listed as acceptable sureties on federal bonds in Circular 570 of the U.S. Department of the Treasury, and approved by the administrative authority.

2. *The wording of the surety bond must be identical to the wording specified in LAC 33:V.3719.C.*

3. *The owner or operator who uses a surety bond to satisfy the requirements of this Part must also establish a standby trust fund. Under the terms of the bond, all payments made thereunder will be deposited by the surety directly into the standby trust fund in accordance with instructions from the administrative authority. This standby trust fund must meet the requirements specified in LAC 33:V.3711.A except that:*

   a. *an originally signed duplicate of the trust agreement must be submitted to the administrative authority with the surety bond; and*

   b. *unless the standby trust fund is funded pursuant to the requirements of this Part, the following are not required by these regulations:*

      i. *payments into the trust fund as specified in LAC 33:V.3711.A.3;*

      ii. *updating of Schedule A of the trust agreement to show current post-closure cost estimates;*

      iii. *annual valuations as required by the trust agreement; and*

      iv. *notices of nonpayment as required by the trust agreement.*

4. *The bond must guarantee that the owner or operator will:*

   a. *perform post-closure care in accordance with the post-closure plan and other requirements of the permit for the facility; or*

   b. *provide alternate financial assurance as specified in this Part, and obtain the administrative authority's written approval of the assurance provided, within 90 days of receipt by both the owner or operator, and the administrative authority of a notice of cancellation of the bond from the surety.*

5. *Under the terms of the bond, the surety will become liable on the bond obligation when the owner or operator fails to perform as guaranteed by the bond. Following a final administrative determination by the administrative authority pursuant to R.S. 30:2025 that the owner or operator has failed to perform post-closure care in accordance with the post-closure plan and other permit requirements, under the terms of the bond the surety will perform post-closure care in accordance with the post-closure plan and other permit requirements, or will deposit the amount of the penal sum into the standby trust fund.*

6. *The penal sum of the bond must be in an amount at least equal to the current post-closure cost estimate.*

7. *Whenever the current post-closure cost estimate increases to an amount greater than the penal sum during the operating life of the facility, the owner or operator,*

within 60 days after the increase, must either cause the penal sum to be increased to an amount at least equal to the current post-closure cost estimate and submit evidence of such increase to the Office of Environmental Services, or obtain other financial assurance as specified in this Part. Whenever the current post-closure cost estimate decreases during the operating life of the facility, the penal sum may be reduced to the amount of the current post-closure cost estimate following written approval by the administrative authority.

8. *During the period of post-closure care, the administrative authority may approve a decrease in the penal sum if the owner or operator demonstrates to the administrative authority that the amount exceeds the remaining cost of post-closure care.*

9. *Under the terms of the bond, the surety may cancel the bond by sending notice of cancellation by certified mail to the owner or operator, and to the Office of Environmental Services. Cancellation may not occur, however, during the 120 days beginning on the date of receipt of the notice of cancellation by both the owner or operator and the administrative authority, as evidenced by the return receipts.*

10. *The owner or operator may cancel the bond if the administrative authority has given prior written consent. The administrative authority will provide such written consent when:*

    a. *an owner or operator substitutes alternate financial assurance as specified in this Part; or*

    b. *the administrative authority releases the owner or operator from the requirements of this Part in accordance with LAC 33:V.3711.I.*

11. *The surety will not be liable for deficiencies in the performance of post-closure care by the owner or operator after the administrative authority releases the owner or operator from the requirements of this Part in accordance with LAC 33:V.3711.I.*

D. *Post-Closure Letter of Credit*

1. *An owner or operator may satisfy the requirements of this Part by obtaining an irrevocable standby letter of credit which conforms to the requirements of this Paragraph and by submitting the letter to the Office of Environmental Services. An owner or operator of a new facility must submit the letter of credit to the administrative authority at least 60 days before the date on which hazardous waste is first received for disposal. The letter of credit must be effective before this initial receipt of hazardous waste. The issuing institution must be an entity which has the authority to issue letters of credit and whose letter-of-credit operations are regulated and examined by a federal or state agency.*

2. *The wording of the letter of credit must be identical to the wording specified in LAC 33:V.3719.D.*

3. *An owner or operator who uses a letter of credit to satisfy the requirements of this Part must also establish a standby trust fund. Under the terms of the letter of credit, all amounts paid pursuant to a draft by the administrative authority will be deposited by the issuing institution directly into the standby trust fund in accordance with instructions from the administrative authority. This standby trust fund must meet the requirements of the trust fund specified in LAC 33:V.3711.A, except that:*

   a. *an originally signed duplicate of the trust agreement must be submitted to the administrative authority with the letter of credit; and*

   b. *unless the standby trust fund is funded pursuant to the requirements of this Part, the following are not required by these regulations:*

      i. *payments into the trust fund as specified in LAC 33:V.3711.A.3;*

      ii. *updating of Schedule A of the trust agreement to show current post-closure cost estimates;*

      iii. *annual valuations as required by the trust agreement; and*

      iv. *notices of nonpayment as required by the trust agreement.*

4. *The letter of credit must be accompanied by a letter from the owner or operator referring to the letter of credit by number, issuing institution, and date, and providing the following information: the EPA identification number, name, address, and the amount of funds assured for post-closure care of the facility by the letter of credit.*

5. *The letter of credit must be irrevocable and issued for a period of at least one year. The letter of credit must provide that the expiration date will be automatically extended for a period of at least one year unless, at least 120 days before the current expiration date, the issuing institution notifies both the owner or operator, and the administrative authority by certified mail of a decision not to extend the expiration date. Under the terms of the letter of credit, the 120 days will begin on the date when both the owner or operator, and the administrative authority have received the notice, as evidenced by the return receipts.*

6. *The letter of credit must be issued in an amount at least equal to the current post-closure cost estimate, except as provided in LAC 33:V.3711.G*

7. *Whenever the current post-closure cost estimate increases to an amount greater than the amount of the credit during the operating life of the facility, the owner or operator, within 60 days after the increase, must either cause the amount of the credit to be increased so that it at least equals the current post-closure cost estimate and submit evidence of such increase to the Office of Environmental Services, or obtain other financial assurance as specified in this Part to cover the increase. Whenever the current post-closure cost estimate decreases during the operating life of the facility, the amount of the credit may be reduced to the amount of the current post-closure cost estimate following written approval by the administrative authority.*

8. *During the period of post-closure care, the administrative authority may approve a decrease in the amount of the letter of credit if the owner or operator demonstrates to the administrative authority that the amount exceeds the remaining cost of post-closure care.*

9. *Following a final administrative determination by the administrative authority pursuant to R.S. 30:2025 that the owner or operator has failed to perform post-closure care in accordance with the post-closure plan and other permit requirements, the administrative authority may draw on the letter of credit.*

10. *If the owner or operator does not establish alternate financial assurance as specified in this Part and obtain written approval of such alternate assurance from the administrative authority within 90 days after receipt by both the owner or operator and the Office of Environmental Services of a notice from the issuing institution that it has decided not to extend the letter of credit beyond the current expiration date, the administrative authority will draw on the letter of credit. The administrative authority may delay the drawing if the issuing institution grants an extension of the term of the credit. During the last 30 days of any such extension the administrative authority will draw on the letter of credit if the owner or operator has failed to provide alternate financial assurance as specified in this Part and obtain written approval of such assurance from the administrative authority.*

11. *The administrative authority will return the letter of credit to the issuing institution for termination when:*

    a. *an owner or operator substitutes alternate financial assurance as specified in this Part; or*

    b. *the administrative authority releases the owner or operator from the requirements of this Part in accordance with LAC 33:V.3711.I.*

E. *Post-Closure Insurance*

1. *An owner or operator may satisfy the requirements of this Part by obtaining post-closure insurance which conforms to the requirements of this Paragraph and submitting a certificate of such insurance to the Office of Environmental Services. An owner or operator of a new facility must submit the certificate of insurance to the administrative authority at least 60 days before the date on which hazardous waste is first received for disposal. The insurance must be effective before this initial receipt of hazardous waste. At a minimum, the insurer must be licensed to transact the business of insurance, or be eligible to provide insurance as an excess or surplus lines insurer in one or more states, and authorized to transact business in Louisiana.*

2. *The wording of the certificate of insurance must be identical to the wording specified in LAC 33:V.3719.E.*

3. *The post-closure insurance policy must be issued for a face amount at least equal to the current post-closure cost estimate, except as provided in LAC 33:V.3711.G The term "face amount" means the total amount the insurer is obligated to pay*

under the policy. Actual payments by the insurer will not change the face amount, although the insurer's future liability will be lowered by the amount of the payments.

4. *The post-closure insurance policy must guarantee that funds will be available to provide post-closure care of the facility whenever the post-closure period begins. The policy must also guarantee that once post-closure care begins, the insurer will be responsible for paying out funds, up to an amount equal to the face amount of the policy, upon the direction of the administrative authority, to such party or parties as the administrative authority specifies.*

5. *An owner or operator or any other person authorized to perform post-closure care may request reimbursement for post-closure expenditures by submitting itemized bills to the administrative authority. Within 60 days after receiving bills for post-closure activities, the administrative authority will instruct the insurer to make reimbursements in those amounts as the administrative authority specifies in writing, if the administrative authority determines that the post-closure expenditures are in accordance with the post-closure plan or otherwise justified. If the administrative authority does not instruct the insurer to make such reimbursements he will provide the owner or operator with a detailed written statement of reasons.*

6. *The owner or operator must maintain the policy in full force and effect until the administrative authority consents to termination of the policy by the owner or operator as specified in LAC 33:V.3711.E.11. Failure to pay the premium, without substitution of alternate financial assurance as specified in this Part, will constitute a significant violation of these regulations, warranting such remedy as the administrative authority deems necessary. Such violation will be deemed to begin upon receipt by the administrative authority of a notice of future cancellation, termination, or failure to renew due to nonpayment of the premium, rather than upon the date of expiration.*

7. *Each policy must contain a provision allowing assignment of the policy to a successor owner or operator. Such assignment may be conditional upon consent of the insurer, provided such consent is not unreasonably refused.*

8. *The policy must provide that the insurer may not cancel, terminate, or fail to renew the policy except for failure to pay the premium. The automatic renewal of the policy must, at a minimum, provide the insured with the option of renewal at the face amount of the expiring policy. If there is a failure to pay the premium, the insurer may elect to cancel, terminate, or fail to renew the policy by sending notice by certified mail to the owner or operator and the Office of Environmental Services. Cancellation, termination, or failure to renew may not occur, however, during the 120 days beginning with the date of receipt of the notice by both the administrative authority and the owner or operator, as evidenced by the return receipts. Cancellation, termination, or failure to renew may not occur and the policy will remain in full force and effect in the event that on or before the date of expiration:*

a. *the administrative authority deems the facility abandoned; or*

b. *the permit is terminated or revoked or a new permit is denied; or*

c. *closure is ordered by the administrative authority or a U.S. District Court or other court that can exercise jurisdiction; or*

d. *the owner or operator is named as debtor in a voluntary or involuntary proceeding under Title 11 (Bankruptcy), U.S. Code; or*

e. *the premium due is paid.*

9. *Whenever the current post-closure cost estimate increases to an amount greater than the face amount of the policy during the operating life of the facility, the owner or operator, within 60 days after the increase, must either cause the face amount to be increased to an amount at least equal to the current post-closure cost estimate and submit evidence of such increase to the Office of Environmental Services, or obtain other financial assurance as specified in this Part to cover the increase. Whenever the current post-closure cost estimate decreases during the operating life of the facility, the face amount may be reduced to the amount of the current post-closure cost estimate following written approval by the administrative authority.*

10. *Commencing on the date that liability to make payments pursuant to the policy accrues, the insurer will thereafter annually increase the face amount of the policy. Such increase must be equivalent to the face amount of the policy, less any payments made, multiplied by an amount equivalent to 85 percent of the most recent investment rates or of the equivalent coupon-issue yield announced by the U.S. Treasury for 26 week Treasury securities.*

11. *The administrative authority will give written consent to the owner or operator that he may terminate the insurance policy when:*

a. *an owner or operator substitutes alternate financial assurance as specified in this Part; or*

b. *the administrative authority releases the owner or operator from the requirements of this Part in accordance with LAC 33:V.3711.I.*

F. *Financial Test and Corporate Guarantee for Post-Closure Care*

1. *An owner or operator may satisfy the requirements of this Section by demonstrating that he passes a financial test as specified in this Subsection. To pass this test the owner or operator must meet the criteria of either of the following.*

a. *The owner or operator must have:*

i. *two of the following three ratios: a ratio of total liabilities to net worth less than 2.0; a ratio of the sum of net income plus depreciation, depletion, and amortization to total liabilities greater than 0.1; and a ratio of current assets to current liabilities greater than 1.5; and*

ii. *net working capital and tangible net worth each at least six times the current closure and post-closure cost estimates and the current plugging and abandonment cost estimates; and*

iii. *tangible net worth of at least $10 million; and*

iv. *assets located in the United States amounting to at least 90 percent of his total assets or at least six times the sum of the current closure and post-closure cost estimates and the current plugging and abandonment cost estimates.*

b. *The owner or operator must have:*

i. *a current rating for his most recent bond issuance of AAA, AA, A, or BBB as issued by Standard and Poor's or Aaa, Aa, A, or Baa as issued by Moody's; and*

ii. *tangible net worth at least six times the sum of the current closure and post-closure cost estimates and the current plugging and abandonment cost estimates; and*

iii. *tangible net worth of at least $10 million; and*

iv. *assets located in the United States amounting to at least 90 percent of his total assets or at least six times the sum of the current closure and post-closure cost estimates and the current plugging and abandonment cost estimates.*

2. *The phrase current closure and post-closure cost estimates as used in LAC 33:V.3711.F.1 refers to the cost estimates required to be shown in Paragraphs 1-4 of the letter from the owner's or operator's chief financial officer (see LAC 33:V.3719.F). The phrase current plugging and abandonment cost estimates used in LAC 33:V.3711.F.1 refers to the cost estimates required to be shown in Paragraphs 1-4 of the letter from the owner's or operator's chief financial officer (40 CFR 144.70.f).*

3. *To demonstrate that he meets this test, the owner or operator must submit the following items to the Office of Environmental Services:*

a. *a letter signed by the owner's or operator's chief financial officer and worded as specified in LAC 33:V.3719.F; and*

b. *a copy of the independent certified public accountant's report on examination of the owner's or operator's financial statements for the latest completed fiscal year; and*

c. *a special report from the owner's or operator's independent certified public accountant to the owner or operator stating that:*

i. *he has compared the data which the letter from the chief financial officer specifies as having been derived from the independently audited, year-end financial statements for the latest fiscal year with the amounts in such financial statements; and*

ii. *in connection with that procedure, no matters came to his attention which caused him to believe that the specified data should be adjusted.*

4. *An owner or operator of a new facility must submit the items specified in LAC 33:V.3711.F.3 to the Office of Environmental Services at least 60 days before the date on which hazardous waste is first received for disposal.*

5. *After the initial submission of items specified in LAC 33:V.3711.F.3, the owner or operator must send updated information to the Office of Environmental Services within 90 days after the close of each succeeding fiscal year. This information must consist of all three items specified in LAC 33:V.3711.F.3.*

6. *If the owner or operator no longer meets the requirements of LAC 33:V.3711.F.1 of this Part, he must send notice to the Office of Environmental Services of intent to establish alternate financial assurance as specified in this Part. The notice must be sent by certified mail within 90 days after the end of the fiscal year for which the year-end financial data show that the owner or operator no longer meets the requirements. The owner or operator must provide the alternate financial assurance within 120 days after the end of such fiscal year.*

7. *The administrative authority may, based on a reasonable belief that the owner or operator may no longer meet the requirements of LAC 33:V.3711.F.1, require reports of financial condition at any time from the owner or operator in addition to those specified in LAC 33:V.3711.F.3. If the administrative authority finds, on the basis of such reports or other information, that the owner or operator no longer meets the requirements of LAC 33:V.3711.F.1, the owner or operator must provide alternate financial assurance as specified in this Part within 30 days after notification of such a finding.*

8. *The administrative authority may disallow use of this test on the basis of qualifications in the opinion expressed by the independent certified public accountant in his report on examination of the owner's or operator's financial statements (see LAC 33:V.3711.F.3). An adverse opinion or a disclaimer of opinion will be cause for disallowance. The administrative authority will evaluate other qualifications on an individual basis. Based on the application, the circumstances, and the accessibility of the applicant's assets, the administrative authority may disallow the use of this test. The owner or operator must provide alternate financial assurance as specified in this Part within 30 days after notification of the disallowance.*

9. *During the period of post-closure care, the administrative authority may approve a decrease in the current post-closure cost estimate for which this test demonstrates financial assurance if the owner or operator demonstrates to the administrative authority that the amount of the cost estimate exceeds the remaining cost of post-closure care.*

10. *The owner or operator is no longer required to submit the items specified in LAC 33:V.3711.F.3 when:*

    a. *an owner or operator substitutes alternate financial assurance as specified in this Part; or*

b. the administrative authority releases the owner or operator from the requirements of this Part in accordance with LAC 33:V.3711.I.

11. An owner or operator may meet the requirements of this Section by obtaining a written guarantee. The guarantor must be the direct or higher-tier parent corporation of the owner or operator, a firm whose parent corporation is also the parent corporation of the owner or operator, or a firm with a "substantial business relationship" with the owner or operator. The guarantor must meet the requirements for owners or operators of LAC 33:V.3711.F.1-F.9 and must comply with the terms of the guarantee. The wording of the guarantee must be identical to the wording specified in LAC 33:V.3719.H. A certified copy of the guarantee must accompany the items sent to the administrative authority specified in LAC 33:V.3711.F.3. One of these items must be the letter from the guarantor's chief financial officer. If the guarantor's parent corporation is also the parent corporation of the owner or operator, the letter must describe the value received in consideration of the guarantee. If the guarantor is a firm with a "substantial business relationship" with the owner or operator, this letter must describe this "substantial business relationship" and the value received in consideration of the guarantee. The terms of the corporate guarantee must provide that:

a. if the owner or operator fails to perform post-closure care of a facility covered by the corporate guarantee in accordance with the post-closure plan and other permit requirements whenever required to do so, the guarantor will do so or establish a trust fund as specified in LAC 33:V.3711.A in the name of the owner or operator;

b. the corporate guarantee will remain in force unless the guarantor sends notice of cancellation by certified mail to the owner or operator and to the administrative authority. Cancellation may not occur, however, during the 120 days beginning on the date of receipt of the notice of cancellation by both the owner or operator and the administrative authority, as evidenced by the return receipts;

c. if the owner or operator fails to provide alternate financial assurance as specified in this Part and obtain the written approval of such alternate assurance from the administrative authority within 90 days after receipt by both the owner or operator and the administrative authority of a notice of cancellation of the corporate guarantee from the guarantor, the guarantor will provide such alternate financial assurance in the name of the owner or operator.

G. Use of Multiple Financial Mechanisms. An owner or operator may satisfy the requirements of this Section by establishing more than one financial mechanism per facility. These mechanisms are limited to trust funds, surety bonds guaranteeing payment into a trust fund, letters of credit, and insurance. The mechanisms must be as specified in Subsections A, B, D, and E of this Section, respectively, except that it is the combination of mechanisms, rather than the single mechanism, that must provide financial assurance for an amount at least equal to the cost estimate. If an owner or operator uses a trust fund in combination with a surety bond or a letter of

credit, he may use the trust fund as the standby trust fund for the other mechanisms. A single standby trust fund may be established for two or more mechanisms. The administrative authority may use any or all of the mechanisms to provide for post-closure care of the facility.

H. *Use of a Financial Mechanism for Multiple Facilities. An owner or operator may use a financial assurance mechanism specified in this Section to meet the requirements of this Section for more than one facility. Evidence of financial assurance submitted to the administrative authority must include a list showing, for each facility, the EPA identification number, name, address, and the amount of funds for post-closure assured by the mechanism. The amount of funds available through the mechanism must be no less than the sum of funds that would be available if a separate mechanism had been established and maintained for each facility. In directing funds available through the mechanism for post-closure care of any of the facilities covered by the mechanism, the administrative authority may direct only the amount of funds designated for that facility, unless the owner or operator agrees to the use of additional funds available under the mechanism.*

I. *Release of the Owner or Operator from the Requirements of this Part. Within 60 days after receiving certifications from the owner or operator and an independent registered professional engineer that the post-closure care period has been completed for a hazardous waste disposal unit in accordance with the approved plan, the administrative authority will notify the owner or operator that he is no longer required to maintain financial assurance for post-closure care of that unit, unless the administrative authority has reason to believe that post-closure care has not been in accordance with the approved post-closure plan. The administrative authority shall provide the owner or operator with a detailed written statement of any such reason to believe that post-closure care has not been in accordance with the approved post-closure plan.*

The Facility utilizes insurance to provide financial assurance for the anticipated cost of its post-closure care activities. Certificate of Insurance (Policy No. ENC 5254310-02 effective date September 6, 2006, Appendix D) currently provides the financial assurance mechanism for the Facility's Post-Closure Cost Estimates including Landfill Cell 717. The latest annual update for inflation was provided to the LDEQ on July 30, 2007 (Appendix D).

Subchapter C. Common Closure and Post-Closure Requirements

3713. Use of a Mechanism for Financial Assurance of Both Closure and Post-Closure Care

A. *An owner or operator may satisfy the requirements for financial assurance for both closure and post-closure care for one or more facilities by using a trust fund, surety bond, letter of credit, insurance, financial test, or corporate guarantee that meets the specifications for the mechanism in both LAC 33:V.3707 and 3711. The amount of funds available through the mechanism must be no less than the sum of funds that*

would be available if a separate mechanism has been established and maintained for financial assurance of closure and post-closure care.

Clean Harbors Baton Rouge, LLC utilizes a single insurance policy to cover both its post-closure financial obligations as well as the costs for closure for the remaining units at the facility (not covered by this permit renewal application). A copy of the current financial assurance documentation (July 30, 2007) is included in Appendix D.

Subchapter D. Insurance Requirements

3715. Liability Requirements

A. *Coverage for Sudden Accidental Occurrences. An owner or operator of a hazardous waste treatment, storage, or disposal facility, or a group of such facilities, must demonstrate financial responsibility for bodily injury and property damage to third parties caused by sudden accidental occurrences arising from operations of the facility or group of facilities. The owner or operator must have and maintain liability coverage for sudden accidental occurrences in the amount of at least $1 million per occurrence, with an annual aggregate of at least $2 million, exclusive of legal defense costs. This liability coverage may be demonstrated as specified in LAC 33:V.3715.A.1, 2, 3, 4, 5, or 6. For any facility that treats, stores, or disposes by land treatment (i.e., surface impoundment, waste pile, landfarm, or landfill) any acute hazardous waste (see Table 3 of LAC 33:V.Chapter 49), or any toxic waste listed because of toxicity or reactivity (see Table 4 of LAC 33:V.Chapter 49) the liability coverage must be at least $5 million per occurrence, with an annual aggregate of at least $5 million exclusive of legal defense costs.*

The appropriate liability insurance coverage is provided by Clean Harbors Baton Rouge, LLC as described above. Although the portion of the Facility covered by this permit renewal application is closed, a copy of the liability insurance certificate is included in Appendix D.

1. *An owner or operator may demonstrate the required liability coverage by having liability insurance as specified in this Paragraph.*

   a. *Each insurance policy must be amended by attachment of the Hazardous Waste Facility Liability Endorsement or evidenced by a certificate of liability insurance. The wording of the endorsement must be identical to the wording specified in LAC 33:V.3719.I. The wording of the certificate of insurance must be identical to the wording specified in LAC 33:V.3719.J. The owner or operator must submit a signed duplicate original of the endorsement or the certificate of insurance to the Office of Management and Finance, Financial Services Division. If requested by the administrative authority, the owner or operator must provide a signed duplicate original of the insurance policy. An*

owner or operator of a new facility must submit the signed duplicate original of the Hazardous Waste Facility Liability Endorsement or the certificate of liability insurance to the administrative authority at least 60 days before the date on which hazardous waste is first received for treatment, storage, or disposal. The insurance must be effective before this initial receipt of hazardous waste.

The appropriate liability coverage is provided by Clean Harbors Baton Rouge, LLC as required above.

b. *Each insurance policy must be issued by an insurer which, at a minimum, is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more states, and authorized to transact business in Louisiana.*

The provider of the liability insurance coverage for Clean Harbors Baton Rouge, LLC meets these requirements.

2. *An owner or operator may meet the requirements of this Section by passing a financial test or using the corporate guarantee for liability coverage as specified in Subsections F and G of this Section.*

The Facility has provided insurance coverage for this purpose; therefore, this section is not applicable.

3. *An owner or operator may meet the requirements of this Section by obtaining a letter of credit for liability coverage as specified in LAC 33:V.3715.H.*

The Facility has provided insurance coverage for this purpose; therefore, this section is not applicable.

4. *An owner or operator may meet the requirements of this Section by obtaining a surety bond for liability coverage as specified in LAC 33:V.3715.I.*

The Facility has provided insurance coverage for this purpose; therefore, this section is not applicable.

5. *An owner or operator may meet the requirements of this Section by obtaining a trust fund for liability coverage as specified in LAC 33:V.3715.J.*

The Facility has provided insurance coverage for this purpose; therefore, this section is not applicable.

6. *An owner or operator may demonstrate the required liability coverage through use of combinations of financial test, insurance, guarantee, letter of credit, surety bond, and trust fund, except that the owner or operator may not combine a financial test covering part of the liability coverage requirement with a guarantee unless the financial statement of the owner or operator is not consolidated with the financial statement of the guarantor. The amounts of coverage demonstrated must total at least the minimum amounts required by this Section. If the owner or operator demonstrates the required coverage through the use of a combination of financial assurances under this Paragraph, the owner or operator shall specify at least one such assurance as "primary" coverage and shall specify other assurances as "excess" coverage.*

The Facility has provided insurance coverage for this purpose; therefore, this section is not applicable.

7. *An owner or operator shall notify the Office of Environmental Services in writing within 30 days whenever:*
   a. *a claim results in a reduction in the amount of financial assurance for liability coverage provided by a financial instrument authorized in LAC 33:V.3715.A.1-6; or*
   b. *a Certification of Valid Claim for bodily injury or property damages caused by a sudden or non-sudden accidental occurrence arising from the operation of a hazardous waste treatment, storage, or disposal facility is entered between the owner or operator and third-party claimant for liability coverage under LAC 33:V.3715.A.1-6; or*
   c. *a final court order establishing a judgement for bodily injury or property damage caused by a sudden or non-sudden accidental occurrence arising from the operation of a hazardous waste treatment, storage, or disposal facility is issued against the owner or operator or an instrument that is providing financial assurance for liability coverage under LAC 33:V.3715.A.1-6.*

The Facility will make the appropriate notifications should any of the events described above occur.

B. *Coverage for Non-sudden Accidental Occurrences. An owner or operator of a surface impoundment, landfill, land treatment facility, or miscellaneous disposal unit that is used to manage hazardous waste, or a group of such facilities, must demonstrate financial responsibility for bodily injury and property damage to third parties caused by non-sudden accidental occurrences arising from operations of the facility or group of facilities. The owner or operator must have and maintain liability coverage for non-sudden accidental occurrences in the amount of at least $3 million per occurrence with an annual aggregate of at least $6 million, exclusive of legal defense costs. An owner or operator who must meet the requirements of this Section may combine the required per-occurrence coverage levels for sudden and non-sudden accidental occurrence into a single per-occurrence level, and combine the required annual aggregate coverage levels for sudden and non-sudden accidental occurrences into a single annual aggregate level. Owners or operators who combine coverage levels for sudden and non-sudden accidental occurrences must maintain liability coverage in the amount of at least $5 million per occurrence and $10 million annual aggregate. This liability coverage may be demonstrated as specified in LAC 33:V.3715.B.1, 2, 3, 4, 5, or 6.*

The appropriate liability insurance coverage is provided by Clean Harbors Baton Rouge, LLC as described above. A copy of the liability insurance certificate is included in Appendix D.

1. *An owner or operator may demonstrate the required liability coverage by having liability insurance as specified in this Paragraph.*

   a. *Each insurance policy must be amended by attachment of the Hazardous Waste Facility Liability Endorsement or evidenced by a certificate of liability insurance. The wording of the endorsement must be identical to the wording specified in LAC 33:V.3719.I. The wording of the certificate of insurance must be identical to the wording specified in LAC 33:V.3719.J. The owner or operator must submit a signed duplicate original of the endorsement or the certificate of insurance to the administrative authority. If requested by the Office of Environmental Services, the owner or operator must provide a signed duplicate original of the insurance policy. An owner or operator of a new facility must submit the signed duplicate original of the Hazardous Waste Facility Liability Endorsement or the certificate of liability insurance to the administrative authority at least 60 days before the date on which hazardous waste is first received for treatment, storage, or disposal. The insurance must be effective before this initial receipt of hazardous waste.*

The appropriate liability coverage is provided by Clean Harbors Baton Rouge, LLC as required above.

b. *Each insurance policy must be issued by an insurer which, at a minimum, is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer in one or more states and authorized to transact business in Louisiana.*

The provider of the liability insurance coverage for Clean Harbors Baton Rouge, LLC meets these requirements.

2. *An owner or operator may meet the requirements of this Section by passing a financial test or using the guarantee for liability coverage as specified in LAC 33:V.3715.F and G*

The Facility has provided insurance coverage for this purpose; therefore, this section is not applicable.

3. *An owner or operator may meet the requirements of this Section by obtaining a letter of credit for liability coverage as specified in LAC 33:V.3715.H.*

The Facility has provided insurance coverage for this purpose; therefore, this section is not applicable.

4. *An owner or operator may meet the requirements of this Section by obtaining a surety bond for liability coverage as specified in LAC 33:V.3715.I.*

The Facility has provided insurance coverage for this purpose; therefore, this section is not applicable.

5. *An owner or operator may meet the requirements of this Section by obtaining a trust fund for liability coverage as specified in LAC 33:V.3715.J.*

The Facility has provided insurance coverage for this purpose; therefore, this section is not applicable.

6. *An owner or operator may demonstrate the required liability coverage through use of combinations of financial test, insurance, guarantee, letter of credit, surety bond, and trust fund, except that the owner or operator may not combine a financial test covering part of the liability coverage requirement with a guarantee unless the financial statement of the owner or operator is not consolidated with*

the financial statement of the guarantor. The amounts of coverage demonstrated must total at least the minimum amounts required by this Section. If the owner or operator demonstrates the required coverage through the use of a combination of financial assurances under this Paragraph, the owner or operator shall specify at least one such assurance as "primary" coverage and shall specify other assurance as "excess" coverage.

The Facility has provided insurance coverage for this purpose; therefore, this section is not applicable.

7. *An owner or operator shall notify the Office of Management and Finance, Financial Services Division in writing within 30 days whenever:*
   a. *a claim results in a reduction in the amount of financial assurance for liability coverage provided by a financial instrument authorized in LAC 33:V.3715.B.1-6; or*
   b. *a Certification of Valid Claim for bodily injury or property damages caused by a sudden or non-sudden accidental occurrence arising from the operation of a hazardous waste treatment, storage, or disposal facility is entered between the owner or operator and third-party claimant for liability coverage under LAC 33:V.3715.B.1-6; or*
   c. *a final court order establishing a judgment for bodily injury or property damage caused by a sudden or non-sudden accidental occurrence arising from the operation of a hazardous waste treatment, storage, or disposal facility is issued against the owner or operator or an instrument that is providing financial assurance for liability coverage under LAC 33:V.3715.B.1-6.*

The Facility will make the appropriate notifications should any of the events described above occur.

C. *Request for Variance. If an owner or operator can demonstrate to the satisfaction of the administrative authority that the levels of financial responsibility required by Subsections A and B of this Section are not consistent with the degree and duration of risk associated with treatment, storage, or disposal at the facility or group of facilities, the owner or operator may obtain a variance from the administrative authority. The request for a variance must be submitted to the administrative authority as part of the application under LAC 33:V.Chapter 5 for a facility that does not have a permit, or pursuant to the procedures for permit modification under LAC 33:V.Chapter 3 for a facility that has a permit. If granted, the variance will take the form of an adjusted level of required liability coverage, such level to be based on the administrative authority's assessment of the degree and duration of risk associated with the ownership or operation of the facility or group of facilities. The administrative authority may require an owner or operator who requests a*

variance to provide such technical and engineering information as is deemed necessary by the administrative authority to determine a level of financial responsibility other than that required by Subsections A and B of this Section. Any request for a variance for a permitted facility will be treated as a request for a permit modification under LAC 33:V.321.

The Facility does not request a variance from these requirements at this time but reserves its right to do so at some point in the future.

D. *Adjustments by the Administrative Authority. If the administrative authority determines that the levels of financial responsibility required by LAC 33:V.3715.A or B are not consistent with the degree and duration of risk associated with treatment, storage, or disposal at the facility or group of facilities, the administrative authority may adjust the level of financial responsibility required by LAC 33:V.3715.A and B as may be necessary to protect human health and the environment. This adjusted level will be based on the administrative authority's assessment of the degree and duration of risk associated with the ownership or operation of the facility or group of facilities. In addition, if the administrative authority determines that there is a significant risk to human health and the environment from non-sudden accidental occurrences resulting from the operations of a facility that is not a surface impoundment, landfill, or land treatment facility, he may require that an owner or operator of the facility comply with LAC 33:V.3715.B. An owner or operator must furnish to the Office of Environmental Services, within a reasonable time, any information which the administrative authority requests to determine whether cause exists for such adjustments of level or type of coverage. Any adjustment of the level or type of coverage for a facility that has a permit will be treated as a permit modification under LAC 33:V.321.*

The Facility acknowledges the Administrative Authority's rights under this section.

E. *Period of Coverage. Within 60 days after receiving certifications from the owner or operator and an independent registered professional engineer that final closure has been completed in accordance with the approved closure plan, the administrative authority will notify the owner or operator in writing that he is no longer required by this Section to maintain liability coverage for that facility, unless the administrative authority has reason to believe that closure has not been in accordance with the approved closure plan.*

Since portions of the Facility remain in operation, this section does not apply at the current time.

F. *Financial Test for Liability Coverage*

1. *An owner or operator may satisfy the requirements of this Section by demonstrating that he passes a financial test as specified in this Subsection. To pass this test the owner or operator must meet the criteria of either LAC 33:V.3715.F.1.a or b below.*

   a. *The owner or operator must have:*

      i. *net working capital and tangible net worth each at least six times the amount of liability coverage to be demonstrated by the test; and*

      ii. *tangible net worth of at least $10 million; and*

      iii. *assets located in the United States amounting to either at least 90 percent of his total assets or at least six times the amount of liability coverage to be demonstrated by this test.*

   b. *The owner or operator must have:*

      i. *a current rating for his most recent bond issuance of AAA, AA, A, or BBB as issued by Standard and Poor's or Aaa, Aa, A, or Baa as issued by Moody's; and*

      ii. *tangible net worth of at least $10 million; and*

      iii. *tangible net worth at least six times the amount of liability coverage to be demonstrated by this test; and*

      iv. *assets located in the United States amounting to either at least 90 percent of total assets or at least six times the amount of liability coverage to be demonstrated by this test.*

2. *The phrase amount of liability coverage as used in LAC 33:V.3715.F.1 refers to the annual aggregate amounts for which coverage is required under LAC 33:V.3715.A and B.*

3. *To demonstrate that he meets this test, the owner or operator must submit the following three items to the Office of Environmental Services:*

   a. *a letter signed by the owner's or operator's chief financial officer and worded as specified in LAC 33:V.3719.G. If an owner or operator is using the financial test to demonstrate both assurance for closure or post-closure care, as specified by LAC 33:V.3707.F, 3711.F, 4403.E, and 4407.E, and liability coverage, he must submit the letter specified in LAC 33:V.3719.G to cover both forms of financial responsibility; a separate letter as specified in LAC 33:V.3719.F is not required;*

   b. *a copy of the independent certified public accountant's report on examination of the owner's or operator's financial statements for the latest completed fiscal year;*

   c. *a special report from the owner's or operator's independent certified public accountant to the owner or operator stating that:*

      i. *he has compared the data which the letter from the chief financial officer specifies as having been derived from the independently audited, year-end*

financial statements for the latest fiscal year with the amounts in such financial statements; and

ii. *in connection with that procedure, no matters came to his attention which caused him to believe that the specified data should be adjusted.*

4. *An owner or operator of a new facility must submit the items specified in LAC 33:V.3715.F.3 to the Office of Environmental Services at least 60 days before the date on which hazardous waste is first received for treatment, storage, or disposal.*

5. *After the initial submission of items specified in LAC 33:V.3715.F.3, the owner or operator must send updated information to the administrative authority within 90 days after the close of each succeeding fiscal year. This information must consist of all three items specified in LAC 33:V.3715.F.3.*

6. *If the owner or operator no longer meets the requirements of LAC 33:V.3715.F.1, he must obtain insurance, a letter of credit, a surety bond, a trust fund, or a guarantee for the entire amount of required liability coverage as specified in this Section. Evidence of liability coverage must be submitted to the Office of Environmental Services within 90 days after the end of the fiscal year for which the year-end financial data show that the owner or operator no longer meets the test requirements.*

7. *The administrative authority may disallow use of this test on the basis of qualifications in the opinion expressed by the independent certified public accountant in his report on examination of the owner's or operator's financial statements (see LAC 33:V.3715.F.3). An adverse opinion or a disclaimer of opinion will be cause for disallowance. The administrative authority will evaluate other qualifications on an individual basis. Based on the application, the circumstances and the accessibility of the applicant's assets, the administrative authority may disallow the use of this test. The owner or operator must provide evidence of insurance for the entire amount of required liability coverage as specified in this Part within 30 days after notification of disallowance.*

8. *The corporate guarantee authorized for use to demonstrate financial assurance for closure and/or post-closure may not be used to demonstrate financial assurance for liability coverage.*

This section is not applicable since the Facility has opted to provide another mechanism for this coverage.

G *Guarantee for Liability Coverage. Subject to LAC 33:V.3715.G.2, an owner or operator may meet the requirements of this Section by obtaining a written guarantee, hereinafter referred to as "guarantee." The guarantor must be the direct or higher-tier parent corporation of the owner or operator, a firm whose parent corporation is also the parent corporation of the owner or operator, or a firm with a*

"substantial business relationship" with the owner or operator. The guarantor must meet the requirements for owners or operators in LAC 33:V.3715.F.1-7. The wording of the guarantee must be identical to the wording specified in LAC 33:V.3719. A certified copy of the guarantee must accompany the items sent to the administrative authority as specified in LAC 33:V.3715.F.3. One of these items must be the letter from the guarantor's chief financial officer. If the guarantor's parent corporation is also the parent corporation of the owner or operator, this letter must describe the value received in consideration of the guarantee. If the guarantor is a firm with a "substantial business relationship" with the owner or operator, this letter must describe this "substantial business relationship" and the value received in consideration of the guarantee.

1. *If the owner or operator fails to satisfy a judgement based on a determination of liability for bodily injury or property damage to third parties caused by sudden or non-sudden accidental occurrences (or both as the case may be), arising from the operation of facilities covered by this guarantee, or fails to pay an amount agreed to in settlement of claims arising from or alleged to arise from such injury or damage, the guarantor will do so up to the limits of coverage.*
2. *In the case of corporations incorporated in the United States, a guarantee may be used to satisfy the requirements of this Section only if the attorney general or insurance commissioner of the state in which the guarantor is incorporated and the attorney general or insurance commissioner of Louisiana have submitted written statements to the department that a guarantee executed as described in this Section and LAC 33:V.3719.H.2 is a legally valid and enforceable obligation in that state.*
3. *In the case of corporations incorporated outside the United States, a guarantee may be used to satisfy the requirements of this Section only if the non-U.S. corporation has identified a registered agent for service of process in Louisiana and in the state in which it has its principal place of business, and the attorney general or insurance commissioner of Louisiana and the state in which the guarantor corporation has its principal place of business have submitted written statements to the department that a corporate guarantee executed as described in this Section and LAC 33:V.3719.H.2 is a legally valid and enforceable obligation in that state.*

This section is not applicable since the Facility has opted to provide another mechanism for this coverage.

H. Letter of Credit for Liability Coverage

1. *An owner or operator may satisfy the requirements of this Section by obtaining an irrevocable standby letter of credit that conforms to the requirements of this Subsection and submitting a copy of the letter of credit to the Office of Environmental Services.*

2. *The financial institution issuing the letter of credit must be an entity that has the authority to issue letters of credit and whose letter of credit operations are regulated and examined by a federal or state agency.*

3. *The wording of the letter of credit must be identical to the wording specified in LAC 33:V.3719.K.*

4. *An owner or operator who uses a letter of credit to satisfy the requirements of this Section may also establish a standby trust fund. Under the terms of such a letter of credit, all amounts paid pursuant to a draft by the trustee of the standby trust will be deposited by the issuing institution into the standby trust in accordance with instructions from the trustee. The trustee of the standby trust fund must be an entity which has the authority to act as a trustee and whose trust operations are regulated and examined by a federal or state agency.*

5. *The wording of the standby trust fund must be identical to the wording specified in LAC 33:V.3719.N.*

I. *Surety Bond for Liability Coverage*

1. *An owner or operator may satisfy the requirements of this Section by obtaining a surety bond that conforms to the requirements of this Subsection and submitting a copy of the bond to the Office of Environmental Services.*

2. *The surety company issuing the bond must be among those listed as acceptable sureties on federal bonds in the most recent Circular 570 of the U.S. Department of the Treasury.*

3. *The wording of the surety bond must be identical to the wording specified in LAC 33:V.3719.L.*

4. *A surety bond may be used to satisfy the requirements of this Section only if the attorney general or insurance commissioner of the state in which the surety is incorporated and the attorney general or insurance commissioner of Louisiana have submitted a written statement to EPA that a surety bond executed as described in this Section and LAC 33:V.3719.L is a legally valid and enforceable obligation in that state.*

This section is not applicable since the Facility has opted to provide another mechanism for this coverage.

J. *Trust Fund for Liability Coverage*

1. *An owner or operator may satisfy the requirements of this Section by establishing a trust fund that conforms to the requirements of this Paragraph and submitting an originally signed duplicate of the trust agreement to the Office of Environmental Services.*

2. *The trustee must be an entity which has the authority to act as a trustee and whose trust operations are regulated and examined by a federal or state agency.*

3. *The trust fund for liability coverage must be funded for the full amount of the liability coverage to be provided by the trust fund before it may be relied upon to satisfy the requirements of this Section. If at any time after the trust fund is created the amount of funds in the trust fund is reduced below the full amount of the liability coverage to be provided, the owner or operator, by the anniversary date of the establishment of the fund, must either add sufficient funds to the trust fund to cause its value to equal the full amount of liability coverage to be provided, or obtain other financial assurance as specified in this Section to cover the difference. For purposes of this Paragraph, "the full amount of the liability coverage to be provided" means the amount of coverage for sudden and/or non-sudden occurrences required to be provided by the owner or operator by this Section, less the amount of financial assurance for liability coverage that is being provided by other financial assurance mechanisms being used to demonstrate financial assurance by the owner or operator.*

4. *The wording of the trust fund must be identical to the wording specified in LAC 33:V.3719.M.*

This section is not applicable since the Facility has opted to provide another mechanism for this coverage.

K. *Notwithstanding any other provision of LAC 33:V.Subpart 1, an owner or operator using liability insurance to satisfy the requirements of this Section may use, until October 16, 1982, a Hazardous Waste Facility Liability Endorsement or Certificate of Liability Insurance that does not certify that the insurer is licensed to transact the business of insurance, or eligible as an excess or surplus lines insurer, in one or more states.*

Since this date (October 16, 1982) has come and gone, this regulation does not apply.

Subchapter E. Incapacity Regulations

3717. Incapacity of Owners or Operators, Guarantors, or Financial Institutions

A. *An owner or operator must notify the Office of Management and Finance, Financial Services Division by certified mail of the commencement of a voluntary or involuntary proceeding under Title 11 (Bankruptcy), U.S. Code, naming the owner or operator as debtor, within 10 days after commencement of the proceeding. A guarantor of a corporate guarantee as specified in LAC 33:V.3707.F and 3711.F must make such a notification if he is named as debtor, as required under the terms of the corporate guarantee (see LAC 33:V.3719.H).*

Clean Harbors Baton Rouge, LLC agrees to make the appropriate notifications as required under these regulations should one of the events described above occur.

B. An owner or operator who fulfills the requirements of LAC 33:V.3707, 3711 or 3715 by obtaining a trust fund, surety bond, letter of credit, or insurance policy will be deemed to be without the required financial assurance or liability coverage in the event of bankruptcy of the trustee or issuing institution, or a suspension or revocation of the authority of the trustee institution to act as trustee or of the institution issuing the surety bond, letter of credit, or insurance policy to issue such instruments. The owner or operator must establish other financial assurance or liability coverage within 60 days after such an event.

Clean Harbors Baton Rouge, LLC acknowledges the applicability of the above requirement.

Subchapter F. Financial and Insurance Instruments

3719. Wording of the Instruments

A. A trust agreement for a trust fund as specified in LAC 33:V.3707.A or 3711.A or 4403.A or 4407.A must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:

1.

TRUST AGREEMENT

Trust Agreement, the "Agreement," entered into as of [date] by and between [name of the owner or operator], a [name of state] [insert "corporation," "partnership," "association," or "proprietorship"], the "Grantor," and [name of corporate trustee], [insert "incorporated in the State of _____ " or "a national bank" or "a state bank"], the "Trustee."

WHEREAS, the Department of Environmental Quality of the State of Louisiana, an agency of the State of Louisiana, has established certain regulations applicable to the grantor, requiring that an owner or operator of a hazardous waste management facility shall provide assurance that funds will be available when needed for closure and/or post-closure care of the facility;

WHEREAS, the Grantor has elected to establish a trust to provide all or part of such financial assurance for the facility identified herein;

WHEREAS, the Grantor, acting through its duly authorized officers, has selected the Trustee to be the trustee under this agreement, and the Trustee is willing to act as trustee.

NOW, THEREFORE, the Grantor and the Trustee agree as follows:

Section 1. Definitions

As used in this agreement:

(a) The term "Grantor" means the owner or operator who enters into this Agreement and any successors or assigns of the Grantor.

(b) The term "Trustee" means the Trustee who enters into this Agreement and any successor Trustee.

(c) The term "Secretary" means the Secretary, Louisiana Department of Environmental Quality and any successor agency.

(d) The term "administrative authority" means the Secretary, or a person designated by him or her to act therefor.

Section 2. Identification of Facilities and Cost Estimates

This Agreement pertains to the facilities and cost estimates identified on attached Schedule A [on Schedule A, for each facility list the EPA Identification Number, name, address, and the current closure and/or post-closure cost estimates, or portions thereof, for which financial assurance is demonstrated by this Agreement].

Section 3. Establishment of Fund

The Grantor and the Trustee hereby establish a trust fund, the "Fund," for the benefit of the Louisiana Department of Environmental Quality. The Grantor and the Trustee intend that no third party have access to the Fund except as herein provided. The Fund is established initially as consisting of the property, which is acceptable to the Trustee, described in Schedule B attached hereto. [Note: Standby Trust Agreements need not be funded at the time of execution. In the case of Standby Trust Agreements, Schedule B should be blank but for a statement that the Agreement is not presently funded, but shall be funded by the financial assurance document used by the Grantor in accordance with the terms of that document.] Such property and any other property subsequently transferred to the Trustee is referred to as the Fund, together with all earnings and profits thereon, less any payments or distributions made by the Trustee pursuant to this Agreement. The Fund shall be held by the Trustee, IN TRUST, as hereinafter provided. The Trustee shall not be responsible nor shall it undertake any responsibility for the amount or adequacy of, nor any duty to collect from the Grantor, any payments necessary to discharge any liabilities of the Grantor established by the administrative authority.

Section 4. Payment for Closure and Post-Closure Care

The Trustee shall make payments from the Fund as the administrative authority shall direct, in writing, to provide for the payment of the costs of closure and/or post-closure care of the facility covered by this Agreement. The Trustee shall reimburse the Grantor or other persons as specified by the administrative authority from the Fund for closure and post-closure expenditures in such amounts as the administrative authority shall direct in writing. In addition, the Trustee shall refund to the Grantor such amounts as the

administrative authority specifies in writing. Upon refund, such funds shall no longer constitute part of the Fund as defined herein.

Section 5. Payments Comprising the Fund

Payments made to the Trustee for the Fund shall consist of cash or securities acceptable to the Trustee.

Section 6. Trustee Management

The Trustee shall invest and reinvest the principal and income of the Fund and keep the Fund invested as a single fund, without distinction between principal and income, in accordance with general investment policies and guidelines which the Grantor may communicate in writing to the Trustee from time to time, subject, however, to the provisions of this part. In investing, reinvesting, exchanging, selling, and managing the Fund, the trustee shall discharge his duties with respect to the trust fund solely in the interest of the beneficiary and with the care, skill, prudence, and diligence under the circumstances then prevailing which persons of prudence, acting in a like capacity and familiar with such matters, would use in the conduct of an enterprise of a like character and with like aims, except that:

A. securities or other obligations of the Grantor, or any other owner or operator of the facilities, or any of their affiliates as defined in the Investment Company Act of 1940, as amended, 15 U.S.C. 80a-2.(a), shall not be acquired or held, unless they are securities or other obligations of the federal or a state government;

B. the Trustee is authorized to invest the Fund in time or demand deposits of the Trustee, to the extent insured by an agency of the Federal or State government; and

C. the Trustee is authorized to hold cash awaiting investment or distribution uninvested for a reasonable time and without liability for the payment of interest thereon.

Section 7. Commingling and Investment

The Trustee is expressly authorized in its discretion:

A. to transfer from time to time any or all of the assets of the Fund to any common, commingled, or collective trust fund created by the Trustee in which the Fund is eligible to participate, subject to all of the provisions thereof, to be commingled with the assets of other trusts participating therein; and

B. to purchase shares in any investment company registered under the Investment Company Act of 1940, 15 U.S.C. 80a-1 et seq., including one which may be created, managed, underwritten, or to which investment advice is rendered or the shares of which are sold by the Trustee. The Trustee may vote such shares in its discretion.

Section 8. Express Powers of Trustee

Without in any way limiting the powers and discretion conferred upon the Trustee by the other provisions of this Agreement or by law, the Trustee is expressly authorized and empowered:

A. to sell, exchange, convey, transfer, or otherwise dispose of any property held by it, by public or private sale. No person dealing with the Trustee shall be bound to see to

the application of the purchase money or to inquire into the validity or expediency of any such sale or other disposition;

B. to make, execute, acknowledge, and deliver any and all documents of transfer and conveyance and any and all other instruments that may be necessary or appropriate to carry out the powers herein granted;

C. to register any securities held in the Fund in its own name or in the name of a nominee and to hold any security in bearer form or in book entry, or to combine certificates representing such securities with certificates of the same issue held by the Trustee in other fiduciary capacities, or to deposit or arrange for the deposit of such securities in a qualified central depositary even though, when so deposited, such securities may be merged and held in bulk in the name of the nominee of such depositary with other securities deposited therein by another person, or to deposit or arrange for the deposit of any securities issued by the United States Government, or any agency or instrumentality thereof, with a Federal Reserve bank, but the books and records of the Trustee shall at all times show that all such securities are part of the Fund;

D. to deposit any cash in the Fund in interest-bearing accounts maintained or savings certificates issued by the Trustee, in its separate corporate capacity, or in any other banking institution affiliated with the Trustee, to the extent insured by an agency of the Federal or State government; and

E. to compromise or otherwise adjust all claims in favor of or against the Fund.

Section 9. Taxes and Expenses

All taxes of any kind that may be assessed or levied against or in respect of the Fund and all brokerage commissions incurred by the Fund shall be paid from the Fund. All other expenses incurred by the Trustee in connection with the administration of this Trust, including fees for legal services rendered to the Trustee, the compensation of the Trustee to the extent not paid directly by the Grantor, and all other proper charges and disbursements of the Trustee shall be paid from the Fund.

Section 10. Annual Valuation

The Trustee shall annually, at least 30 days prior to the anniversary date of establishment of the Fund, furnish to the Grantor and to the administrative authority a statement confirming the value of the Trust. Any securities in the Fund shall be valued at market value as of no more than 60 days prior to the anniversary date of establishment of the Fund. The failure of the Grantor to object in writing to the Trustee within 90 days after the statement has been furnished to the Grantor and the administrative authority shall constitute a conclusively binding assent by the Grantor, barring the Grantor from asserting any claim or liability against the Trustee with respect to matters disclosed in the statement.

Section 11. Advice of Counsel

The Trustee may from time to time consult with counsel, who may be counsel to the Grantor, with respect to any question arising as to the construction of this Agreement or

any action to be taken hereunder. The Trustee shall be fully protected, to the extent permitted by law, in acting upon the advice of counsel.

Section 12. Trustee Compensation

The Trustee shall be entitled to reasonable compensation for its services as agreed upon in writing from time to time with the Grantor.

Section 13. Successor Trustee

The Trustee may resign or the Grantor may replace the Trustee, but such resignation or replacement shall not be effective until the Grantor has appointed a successor trustee and this successor accepts the appointment. The successor trustee shall have the same powers and duties as those conferred upon the Trustee hereunder. Upon the successor trustee's acceptance of the appointment, the Trustee shall assign, transfer, and pay over to the successor trustee the funds and properties then constituting the Fund. If for any reason the Grantor cannot or does not act in the event of the resignation of the Trustee, the Trustee may apply to a court of competent jurisdiction for the appointment of a successor trustee or for instructions. The successor trustee shall specify the date on which it assumes administration of the trust in a writing sent to the Grantor, the administrative authority, and the present Trustee by certified mail 10 days before such change becomes effective. Any expenses incurred by the Trustee as a result of any of the acts contemplated by this Part shall be paid as provided in Section 9.

Section 14. Instructions to the Trustee

All orders, requests, and instructions by the Grantor to the Trustee shall be in writing, signed by such persons as are designated in the attached Exhibit A or such other designees as the Grantor may designate by amendment to Exhibit A. The Trustee shall be fully protected in acting without inquiry in accordance with the Grantor's orders, requests and instructions. All orders, requests, and instructions by the administrative authority to the Trustee shall be in writing, signed by the administrative authority, and the Trustee shall act and shall be fully protected in acting in accordance with such orders, requests, and instructions. The Trustee shall have the right to assume, in the absence of written notice to the contrary, that no event constituting a change or a termination of the authority of any person to act on behalf of the Grantor or administrative authority hereunder has occurred. The Trustee shall have no duty to act in the absence of such orders, requests, and instructions from the Grantor and/or administrative authority, except as provided for herein.

Section 15. Notice of Nonpayment

The Trustee shall notify the Grantor and the administrative authority, by certified mail, within ten days following the expiration of the thirty-day period after the anniversary of the establishment of the Trust, if no payment is received from the Grantor during that period. After the pay-in period is completed, the Trustee shall not be required to send a notice of nonpayment.

Section 16. Amendment of Agreement

This Agreement may be amended by an instrument in writing executed by the Grantor, the Trustee, and the administrative authority, or by the Trustee and the administrative authority, if the Grantor ceases to exist.

Section 17. Irrevocability and Termination

Subject to the right of the parties to amend this Agreement as provided in Section 16, this Trust shall be irrevocable and shall continue until terminated at the written agreement of the Grantor, the Trustee, and the administrative authority, or by the Trustee and the administrative authority, if the Grantor ceases to exist. Upon termination of the Trust, all remaining trust property, less final trust administration expenses, shall be delivered to Grantor.

Section 18. Immunity and Indemnification

The Trustee shall not incur personal liability of any nature in connection with any act or omission, made in good faith, in the administration of this Trust, or in carrying out any directions by the Grantor or the administrative authority issued in accordance with this Agreement. The Trustee shall be indemnified and saved harmless by the Grantor or from the Trust fund, or both, from and against any personal liability to which the Trustee may be subjected by reason of any act or conduct in its official capacity, including all expenses reasonably incurred in its defense in the event the Grantor fails to provide such defense.

Section 19. Choice of Law

This Agreement shall be administered, construed, and enforced according to the laws of the State of Louisiana.

Section 20. Interpretation

As used in this Agreement, words in the singular include the plural and words in the plural include the singular. The descriptive headings for each Section of this Agreement shall not affect the interpretation or the legal efficacy of this Agreement.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their respective officers duly authorized and their corporate seals to be hereunto affixed and attested as of the date first above written. The parties below certify that the wording of this Agreement is identical to the wording specified in LAC 33:V.3719.A.1 as such regulations were constituted on the date first above written.

WITNESSES: GRANTOR:

By:

*Its:*_____

(SEAL)

TRUSTEE:

By:_____

Its:_____

(SEAL)

THUS DONE AND PASSED in my office in _____, on the _____ day of _____, 20__, in the presence of _____ and _____, competent witnesses, who hereunto sign their names with the said appearers and me, Notary, after reading the whole.

NOTARY PUBLIC

2. The following is an example of the certification of acknowledgement which must accompany the trust agreement for a trust fund as specified in LAC 33:V.3707.A.2 or 4403.A.2 or 4407.A.2.

STATE OF LOUISIANA

PARISH OF _____

BE IT KNOWN, that on this _____ day of _____, 20__, before me, the undersigned Notary Public, duly commissioned and qualified within the State and Parish aforesaid, and in the presence of the witnesses hereinafter named and undersigned, personally came and appeared _____, to me well-known, who declared and acknowledged that he had signed and executed the foregoing instrument as his act and deed, and as the act and deed of the a corporation, for the consideration, uses and purposes and on terms and conditions therein set forth.

And the said appearer, being by me first duly sworn, did depose and say that he is the of said corporation and that he signed and executed said instrument in his said capacity, and under authority of the Board of Directors of said corporation.

Thus done and passed in the State and Parish aforesaid, on the day and date first hereinabove written, and in the presence of _____ and _____, competent witnesses, who have hereunto subscribed their names as such, together with said appearer and me, said authority, after due reading of the whole.

WITNESSES:

_____ _____

_____ _____ *NOTARY PUBLIC*

B. Payment Bond. A surety bond guaranteeing payment into a trust fund, as specified in LAC 33:V.3707.B or 3711.B or 4403.B or 4407.B, must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted.

FINANCIAL GUARANTEE BOND

Date bond executed: _____

Effective date: _____

Principal: [legal name and business address of owner or operator]

Type of organization: [insert "individual," "joint venture," "partnership," or "corporation"]

State of incorporation: _____

Surety(ies): [name(s) and business address(es)]

EPA Identification Number, name, address, and closure and/or post-closure amount(s) for each facility guaranteed by this bond [indicate closure and post-closure amounts separately]: _____

*Total penal sum of bond: $*_____

Surety's bond number: _____

Know All Persons By These Presents, That we, the Principal and Surety(ies) hereto are firmly bound to the Louisiana Department of Environmental Quality in the above penal sum for the payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns jointly and severally; provided that, where the Surety(ies) are corporations acting as co-sureties, we the Sureties, bind ourselves in such sum "jointly and severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is set forth opposite the name of such Surety, but if no limit of liability is indicated, the limit of liability shall be the full amount of the penal sum.

WHEREAS, said Principal is required, under the Resource Conservation and Recovery Act (RCRA) as amended and the Louisiana Environmental Quality Act, R.S. 30:2001 et seq., to have a permit in order to own or operate the hazardous waste management facility(ies) identified above; and

WHEREAS, the Principal is required by law to provide financial assurance for closure or closure and post-closure care, as a condition of the permit or interim status; and

WHEREAS, said Principal shall establish a standby trust fund as is required by LAC 33:V.Chapter 37 when a surety bond is used to provide such financial assurance;

NOW THEREFORE, the conditions of the obligation are such that if the Principal shall faithfully, before the beginning of final closure of the facility identified above, fund the standby trust fund in the amount(s) identified above for the facility,

OR, if the Principal shall fund the standby trust fund in such amount(s) within 15 days after a final order to begin final closure is issued by the Secretary, or a court of competent jurisdiction,

OR, if the Principal shall provide alternate financial assurance as specified in LAC 33:V.Chapter 37, and obtain written approval from the administrative authority of such assurance, within 90 days after the date notice of cancellation is received by both the Principal and the administrative authority from the Surety(ies), then this obligation shall be null and void; otherwise it is to remain in full force and effect.

The Surety(ies) shall become liable on this bond obligation only when the Principal has failed to fulfill the conditions described above. Upon notification by the administrative authority that the Principal has failed to perform as guaranteed by this bond, the Surety(ies) shall place funds in the amount guaranteed for the facility(ies) into the standby trust fund as directed by the administrative authority.

The Surety(ies) hereby waives notification of amendments to closure plans, permits, applicable laws, statutes, rules, and regulations, and agrees that no such amendment shall in any way alleviate its obligation on this bond.

The liability of the Surety(ies) shall not be discharged by any payment or succession of payments hereunder, unless and until such payment or payments shall amount in the aggregate to the penal sum of the bond, but in no event shall the obligation of the Surety(ies) hereunder exceed the amount of the penal sum.

The Surety(ies) may cancel the bond by sending notice of cancellation by certified mail to the Principal and to the administrative authority, provided, however, that cancellation shall not occur during the 120 days beginning on the date of receipt of notice of cancellation by the Principal and the administrative authority, as evidenced by the return receipts.

The Principal may terminate this bond by sending written notice to the Surety(ies) and to the administrative authority, provided, however, that no such notice shall become effective until the Surety(ies) receive(s) written authorization for termination of the bond by the administrative authority.

Principal and Surety(ies) hereby agree to adjust the penal sum of the bond yearly in accordance with LAC 33:V.Chapter 37, and the conditions of the Hazardous Waste Facility permit so that it guarantees a new closure and/or post-closure amount, provided that the penal sum does not increase or decrease without the written permission of the administrative authority.

The Principal and Surety(ies) hereby agree that no portion of the penal sum may be expended without prior written approval of the administrative authority.

IN WITNESS WHEREOF, the Principal and the Surety have executed this FINANCIAL GUARANTEE BOND and have affixed their seals on the date set forth above.

Those persons whose signatures appear below hereby certify that they are authorized to execute this FINANCIAL GUARANTEE BOND on behalf of the Principal and Surety(ies), that each Surety hereto is authorized to do business in the State of Louisiana, and that the wording of this surety bond is identical to the wording specified in LAC 33:V.3719.B as such regulations were constituted on the date this bond was executed.

PRINCIPAL

[Signature(s)]

[Name(s)]

[Title(s)]

[Corporate Seal]

CORPORATE SURETIES

[Name and address]

State of incorporation: _____

Liability Limit: _____

[Signature(s)]

[Name(s) and title(s)]

[Corporate Seal]

[This information must be provided for each co-surety]

Bond Premium: $_____

C. Performance Bond. A surety bond guaranteeing performance of closure and/or post-closure care, as specified in LAC 33:V.3707.C or 3711.C must be worded as follows, except that the instructions in brackets are to be replaced with the relevant information and the brackets deleted.

PERFORMANCE BOND

Date bond executed: _____

Effective date: _____

Principal: [Legal name and business address of owner or operator]

Type of organization: [insert "individual," "joint venture," "partnership," or "corporation"]

State of incorporation: _____

Surety(ies): [Name(s) and business address(es)] _____

LHW/EPA Identification Number, name, address, and closure and/or post-closure amount(s) for each facility guaranteed by this bond [indicate closure and post-closure separately]: _____

Total penal sum of bond: $ _____

Surety's bond number _____

Know All Persons By These Presents, That we, the Principal and Surety(ies) hereto are firmly bound to the Louisiana Department of Environmental Quality in the above penal

sum for the payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns jointly and severally; provided that, where the Surety(ies) are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is set forth opposite the name of such Surety, but if no limit of liability is indicated, the limit of liability shall be the full amount of the penal sum.

WHEREAS, said Principal is required, under the Resource Conservation and Recovery Act as amended (RCRA) and the Louisiana Environmental Quality Act, R.S. 30:2001, et seq., to have a permit in order to own or operate the hazardous waste management facility(ies) identified above; and

WHEREAS, the Principal is required by law to provide financial assurance for closure and post-closure care, as a condition of the permit; and

WHEREAS, said Principal shall establish a standby trust fund as is required when a surety bond is used to provide such financial assurance;

NOW, THEREFORE, the conditions of this obligation are such that if the Principal shall faithfully perform closure, whenever required to do so, of the facility for which this bond guarantees closure, in accordance with the closure plan and other requirements of the permit as such plan and permit may be amended, pursuant to all applicable laws, statutes, rules, and regulations, as such laws, statutes, rules, and regulations may be amended;

AND, if the Principal shall faithfully perform post-closure care of each facility for which this bond guarantees post-closure care, in accordance with the post-closure plan and other requirements of the permit, as such plan and permit may be amended pursuant to all applicable laws, statutes, rules, and regulations, as such laws, statutes, rules, and regulations may be amended.

OR, if the Principal shall provide alternate financial assurance as specified in LAC 33:V.Chapter 37, and obtain the administrative authority's written approval of such assurance, within 90 days after the date notice of cancellation is received by both the Principal and administrative authority, then this obligation shall be null and void; otherwise it is to remain in full force and effect.

The Surety shall become liable on this bond obligation only when the Principal has failed to fulfill the conditions described hereinabove.

Upon notification by the administrative authority that the Principal has been found in violation of the closure requirements of LAC 33:V.Chapter 37 or of its permit, for the facility for which this bond guarantees performances of closure, the Surety(ies) shall either perform closure in accordance with the closure plan and other permit requirements, or place the closure amount guaranteed for the facility into the standby trust fund as directed by the administrative authority.

Upon notification by the administrative authority that the Principal has been found in violation of the post-closure requirements of the Hazardous Waste Regulations or of its

permit for the facility for which this bond guarantees performance of post-closure, the surety(ies) shall either perform post-closure in accordance with the post-closure plan and other permit requirements or place the post-closure amount guaranteed for the facility into the standby trust fund as directed by the administrative authority.

Upon notification by the administrative authority that the Principal has failed to provide alternate financial assurance as specified in LAC 33:V.Chapter 37, and obtain written approval of such assurance from the administrative authority during the 90 days following receipt by both the Principal and the administrative authority of a notice of cancellation of the bond, the Surety(ies) shall place funds in the amount guaranteed for the facility into the standby fund as directed by the administrative authority.

The Surety(ies) hereby waive(s) notification of amendments to closure plans, permits, applicable laws, statutes, rules, and regulations, and agree(s) that no such amendment shall in any way alleviate its obligation on this bond.

The liability of the Surety(ies) shall not be discharged by any payment on succession of payments hereunder, unless and until such payment or payments shall amount in the aggregate to the penal sum of the bond, but in no event shall the obligation of the Surety(ies) hereunder exceed the amount of the penal sum.

The Surety(ies) may cancel the bond by sending notice of cancellation by certified mail to the Principal and to the administrative authority, provided, however, that cancellation shall not occur during the 120 days beginning on the date of receipt of notice of cancellation by both the Principal and the administrative authority, as evidenced by the return receipts.

The Principal may terminate this bond by sending written notice to the Surety and to the administrative authority, provided, however, that no such notice shall become effective until the Surety(ies) receive(s) written authorization for termination of the bond by the administrative authority.

Principal and Surety(ies) hereby agree to adjust the penal sum of the bond yearly in accordance with LAC 33:V.Chapter 37, and the conditions of the Hazardous Waste Facility permit so that it guarantees a new closure and/or post-closure amount, provided that the penal sum does not increase or decrease without the written permission of the administrative authority.

The Principal and Surety(ies) hereby agree that no portion of the penal sum may be expended without prior written approval of the administrative authority.

IN WITNESS WHEREOF, the Principal and the Surety(ies) have executed this PERFORMANCE BOND and have affixed their seals on the date set forth above.

Those persons whose signatures appear below hereby certify that they are authorized to execute this surety bond on behalf of the Principal and Surety(ies), and that the wording of this surety bond is identical to the wording specified in LAC 33:V.3719.C as such regulation was constituted on the date this bond was executed.

PRINCIPAL

[Signature(s)]

[Name(s)]

[Title(s)]

[Corporate Seal]

CORPORATE SURETY(IES)

[Name and address]

State of incorporation: _____

Liability limit: $ _____

[Signature(s)]

[Name(s) and title(s)]

[Corporate Seal]

[For every co-surety, provide signature(s), corporate seal, and other information in the same manner as for Surety above.]

Bond premium: $ _____

D. Letter of Credit. A letter of credit, as specified in LAC 33:V.3707.D or 3711.D or 4403.C or 4407.C must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted.

IRREVOCABLE STANDBY LETTER OF CREDIT

Secretary

Louisiana Department of Environmental Quality

P.O. Box 4313

Baton Rouge, LA 70821-4313

Attention: Office of Environmental Services
Waste Permit Division

Dear [Sir or Madam]:

We hereby establish our Irrevocable Standby Letter of Credit Number ____ in favor of the Department of Environmental Quality of the State of Louisiana at the request and for the account of [owner's or operator's name and address] up to the aggregate amount of U.S. dollars

$_____upon presentation of:

1. a sight draft, bearing reference to the Letter of Credit Number____drawn by the Secretary or his or her designated representative, together with;

2. a statement signed by the Secretary or his or her designated representative, reading as follows:

"I certify that the amount of the draft is payable pursuant to regulations issued under authority of the Louisiana Environmental Quality Act, R.S. 30:2001, et seq."

This Letter of Credit is effective as of _____ , _____ , and shall expire on_____ , [date at least one year later], but such expiration date will be automatically extended for a period of at least one year on the above expiration date [____, _____] and on each successive expiration date thereafter, unless, at least 120 days before the then current expiration date, we notify both you and [name of owner/operator] by certified mail that we have decided not to extend this Letter of Credit beyond the then current expiration date. In the event we give such notification, any unused portion of the credit shall be available upon presentation of your sight draft for 120 days after the date of receipt by both you and [name of owner/operator], as shown on the signed return receipts.

Whenever this Letter of Credit is drawn under and in compliance with the terms of this credit, we shall duly honor such draft upon presentation to us, and we shall deposit the amount of the draft directly into the standby trust fund of [name of owner/operator] in accordance with your instructions.

We certify that the wording of this Letter of Credit is identical to the wording specified in LAC 33:V.3719.D as such regulations were constituted on the date shown immediately below.

[Signature(s) and Titles of Official(s) of issuing institutions]

[DATE]

This credit is subject to [insert "the most recent edition of the Uniform Customs and Practice for Documentary Credits, published and copyrighted by the International Chamber of Commerce," or "the Uniform Commercial Code"].

E. A certificate of insurance, as specified in LAC 33:V.3707.E or 3711.E or 4403.D or 4407.D, must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted.

CERTIFICATE OF INSURANCE FOR CLOSURE OR

POST-CLOSURE CARE

Name and Address of Insurer

(herein called the "Insurer"): _____

Name and Address of Insured

(herein called the "Insured"): _____

Facilities Covered: [List for each facility: EPA Identification Number, name, address, and the amount of insurance for closure and/or the amount for post-closure care (these amounts for all facilities covered must total the face amount shown below).]

Face Amount: $ _____

Policy Number: _____

Effective Date: _____

The Insurer hereby certifies that it has issued to the Insured the policy of insurance identified above to provide financial assurance for [insert "closure" or "closure and post-closure care" or "post-closure care"] for the facilities identified above. The Insurer further warrants that such policy conforms in all respects with the requirements of LAC 33:V.3707.E, 3711.E, 4403.D, and 4407.D as applicable and as such regulations were constituted on the date shown immediately below. It is agreed that any provision of the policy inconsistent with such regulations is hereby amended to eliminate such inconsistency.

Whenever requested by the administrative authority, the Insurer agrees to furnish to the administrative authority a duplicate original of the policy listed above, including all endorsements thereon.

I hereby certify that the wording of this certificate is identical to the wording specified in LAC 33:V.3719.E as such regulations were constituted on the date shown immediately below and that Insurer is authorized to conduct insurance business in the State of Louisiana.

[Authorized signature for Insurer]

[Name of person signing][Title of person signing]

Signature of witness or notary: _____ [Date]

F. Closure Guarantee. A letter from the chief financial officer, as specified in LAC 33:V:3707.F.3 or 3711.F.3 or 4403.E.3 or 4407.E.3 must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted.

LETTER FROM CHIEF FINANCIAL OFFICER

Secretary

Louisiana Department of Environmental Quality

P.O. Box 4313

Baton Rouge, LA 70821-4313

Attention: Office of Environmental Services
Waste Permit Division

Dear [Sir or Madam]:

I am the chief financial officer of [name and address of firm]. This letter is in support of this firm's use of the financial test to demonstrate financial assurance for closure and/or post-closure costs, as specified in LAC 33:V.Chapter 37 and 43.

[Fill out the following five paragraphs. If there are no facilities that belong in a particular paragraph, write "None" in the space indicated. For each facility, include its EPA Identification Number, name, address, and current closure and/or post-closure cost estimates. Identify each cost as to whether it is for closure or post-closure.]

1. This firm is the owner or operator of the following facilities for which financial assurance for closure or post-closure costs is being demonstrated through the financial

test specified in LAC 33:V.Chapters 37 and 43. The current closure and/or post-closure cost estimates covered by the test are shown for each facility: _____.

2. This firm guarantees, through the guarantee specified in LAC 33:V.Chapters 37 and 43, financial assurance for closure or post-closure costs at the following facilities owned or operated by the guaranteed party. The current cost estimates for the closure or post-closure care so guaranteed are shown for each facility: _____. The firm identified above is [insert one or more: (1) the direct or higher-tier parent corporation of the owner or operator; (2) owned by the same parent corporation as the parent corporation of the owner or operator, and receiving the following value in consideration of this guarantee; or (3) engaged in the following substantial business relationship with the owner or operator _____, and receiving the following value in consideration of this guarantee _____]. [Attach a written description of the business relationship or a copy of the contract establishing each relationship to this letter].

3. In states other than Louisiana, this firm, as owner or operator or guarantor, is demonstrating financial assurance for the closure or post-closure care of the following facilities through the use of a test equivalent or substantially equivalent to the financial test specified in LAC 33:V.Chapters 37 and 43. The current closure and/or post-closure cost estimates covered by such a test are shown for each facility: _____.

4. This firm is the owner or operator of the following hazardous waste management facilities for which financial assurance for closure or, if a disposal facility, post-closure care, is not demonstrated either to the U.S. Environmental Protection Agency or to a state through the financial test or any other financial assurance mechanism specified in LAC 33:V.Chapters 37 and 43 or equivalent or substantially equivalent state mechanisms. The current closure and/or post-closure cost estimates not covered by such financial assurance are shown for each facility: _____.

5. This firm is the owner or operator or guarantor of the following UIC facilities for which financial assurance for plugging and abandonment is required under 40 CFR Part 144. The current closure cost estimates as required by 40 CFR 144.62 are shown for each facility: _____.

This firm [insert "is required" or "is not required"] to file a Form 10K with the Securities and Exchange Commission (SEC) for the latest fiscal year.

The fiscal year of this firm ends on [month, day]. The figures for the following items marked with an asterisk are derived from this firm's independently audited, year-end financial statements for the latest completed fiscal year, ended [date].

[Fill in Alternative I if the first criteria of LAC 33:V.3707.F.1 or 3711.F.1 or the first criteria of LAC 33:V.4403.E.1 or 4407.E.1 are used. Fill in Alternative II if the second criteria of LAC 33:V.3707.F.1 or 3711.F.1 or the second criteria of LAC 33:V.4403.E.1 or 4407.E.1 are used.]

ALTERNATIVE I

1. Sum of current closure and post-closure estimates [total of all cost estimates shown in the five paragraphs above]: $_____

*2. Total liabilities [if any portion of the closure or post-closure cost estimates is included in total liabilities, you may deduct the amount of that portion from this line and add that amount to lines 3 and 4]: $ _____

*3. Tangible net worth: $ _____

*4. Net worth: $_____

*5. Current assests: $_____

*6. Current Liabilities: $_____

7. Net working capital [line 5 minus line 6]: $_____

*8. The sum of net income plus depreciation, depletion, and amortization:

*9. Total assets in U.S. (required only if less than 90 percent of firm's assets are located in the U.S.): $ _____

	YES	NO
10. Is line 3 at least $10 million?	___	___
11. Is line 3 at least six times line 1?	___	___
12. Is line 7 at least six times line 1?	___	___
*13. Are at least 90 percent of firm's assets located in the U.S.? If not, complete line 14.	___	___
14. Is line 9 at least six times line 1?	___	___
15. Is line 2 divided by line 4 less than 2.0?	___	___
16. Is line 8 divided by line 2 greater than 0.1?	___	___
17. Is line 5 divided by line 6 greater than 1.5?	___	___

ALTERNATIVE II

1. Sum of current closure and post-closure cost estimates [total of all cost estimates shown in the five paragraphs above] $_____

2. Current bond rating of most recent issuance of this firm and name of rating service: _____

3. Date of issuance of bond: _____

4. Date of maturity of bond: _____

*5. Tangible net worth [if any portion of the closure and post-closure cost estimate is included in "total liabilities" on your firm's financial statements, you may add the amount of that portion to this line]: $ _____

**6. Total assets in U.S. [required only if less than 90 percent of firm's assets are located in the U.S.]: $ _____*

	YES	NO
7. Is line 5 at least $10 million?	___	___
**8. Is line 5 greater than six times line 1?*	___	___
**9. Are at least 90 percent of firm's assets located in the U.S.? If not, complete line 10.*	___	___
10. Is line 6 at least six times line 1?	___	___

I hereby certify that the wording of this letter is identical to the wording specified in LAC 33:V.3719.F as such regulations were constituted on the date shown immediately below.

[Signature]

[Name]

[Title]

[Date]

G. Liability Coverage Guarantee. A letter from the chief financial officer, as specified in LAC 33:V.3715.F or 4411, must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:

Secretary

Louisiana Department of Environmental Quality

P.O. Box 4313

Baton Rouge, LA 70821-4313

Attention: Office of Environmental Services
Waste Permit Division

Dear [Sir or Madam]:

I am the chief financial officer of [firm's name and address]. This letter is in support of the use of the financial test to demonstrate financial responsibility for liability coverage [insert "and closure and/or post-closure care" if applicable] as specified in LAC 33:V.Chapter 37 or 43.

[Fill out the following paragraph regarding facilities and liability coverage. If there are no facilities that belong in a particular paragraph, write "none" in the space indicated. For each facility, include its EPA Identification Number, name, and address.]

The firm identified above is the owner or operator of the following facilities for which liability coverage for [insert "sudden" or "nonsudden" or "both sudden and nonsudden"] accidental occurrences is being demonstrated through the financial test specified in LAC 33:V.Chapter 37 or 43.

The firm identified above guarantees, through the guarantee specified in LAC 33:V.Chapter 37 or 43, liability coverage for [insert "sudden" or "nonsudden" or "both sudden and nonsudden"] accidental occurrences at the following facilities owned or operated by the following: _____. The firm identified above is [insert one or more:. (1) the direct or higher-tier parent corporation of the owner or operator; (2) owned by the same parent corporation as the parent corporation of the owner or operator, and receiving the following value in consideration of this guarantee _____; or (3) engaged in the following substantial business relationship with the owner or operator _____, and receiving the following value in consideration of this guarantee]. [Attach a written description of the business relationship or a copy of the contract establishing such relationship to this letter].

[If you are using the financial test to demonstrate coverage of both liability and closure and post-closure care, fill in the following five paragraphs regarding facilities and associated closure and post-closure cost estimates. If there are no facilities that belong in a particular paragraph, write "none" in the space indicated. For each facility, include its EPA Identification Number, name, address, and current closure and/or post-closure cost estimates. Identify each cost estimate as to whether it is for closure or post-closure care.]

1. The firm identified above owns or operates the following facilities for which financial assurance for closure or post-closure care or liability coverage is demonstrated through the financial test specified in LAC 33:V.Chapters 37 and 43. The current closure and/or post-closure cost estimates covered by the test are shown for each facility:

_____

2. The firm identified above guarantees, through the guarantee specified in LAC 33:V.Chapters 37 and 43, the closure and post-closure care or liability coverage of the following facilities owned or operated by the guaranteed party. The current cost estimates for the closure or post-closure care so guaranteed are shown for each facility:

_____

3. In states other than Louisiana, this firm is demonstrating financial assurance for the closure or post-closure care of the following facilities through the use of a test equivalent or substantially equivalent to the financial test specified in LAC 33:V.Chapters 37 and 43. The current closure and/or post-closure cost estimates covered by such a test are shown for each facility: _____

4. The firm identified above owns or operates the following hazardous waste management facilities for which financial assurance for closure or, if a disposal facility, post-closure care, is not demonstrated either to the U.S. Environmental Protection Agency or to a state through the financial test or any other financial assurance mechanism in LAC 33:V.Chapters 37 and 43 or equivalent or substantially equivalent state mechanisms. The current closure and/or post-closure cost estimates not covered by such financial assurance are shown for each facility: _____

5. This firm is the owner or operator or guarantor of the following UIC facilities for which financial assurance for plugging and abandonment is required under the

applicable regulations of the Louisiana Department of Natural Resources and is assured through a financial test. The current closure cost estimates as required by LDNR are shown for each facility: _____

This firm [insert "is required" or "is not required"] to file a Form 10K with the Securities and Exchange Commission (SEC) for the latest fiscal year.

The fiscal year of this firm ends on [month, day]. The figures for the following items marked with an asterisk are derived from this firm's independently audited, year-end financial statements for the latest completed year, ended [date].

[Fill in Part A if you are using the financial test to demonstrate coverage only for the liability requirements under LAC 33:V.Chapters 37 and 43.]

PART A. LIABILITY COVERAGE FOR SUDDEN AND NONSUDDEN OCCURRENCES

[Fill in Alternative I if the first criteria of LAC 33:V.3707.F.1 or 4411.F.1 are used. Fill in Alternative II if the second criteria of LAC 33:V.3707.F.1 or 4411.F.1 or 4411.F.1are used.]

ALTERNATIVE I

1. Amount of annual aggregate liability coverage to be demonstrated: $ ____

**2. Current assets: $ _____*

**3. Current liabilities: $ _____*

**4. Net working capital (line 2 minus line 3):$ _____*

**5. Tangible net worth: $ _____*

**6. Total assets in the U.S. (required only if less than 90 percent of the firm's assets are located in the U.S.): $_____*

	YES	NO
7. Is line 5 at least $10 million?	___	___
*8. Is line 4 at least six times line 1?	___	___
9. Is line 5 at least six times line 1?	___	___
10. Are at least 90 percent of assets located in the U.S.? If not, complete line 11.	___	
11. Is line 6 at least six times line 1?	___	___

ALTERNATIVE II

1. Amount of annual aggregate liability coverage to be demonstrated: $_____

2. Current bond rating of most recent issuance and name of rating service: _____

3. Date of issuance of bond: _____

4. Date of maturity of bond: _____

**5. Tangible net worth:* $_____

**6. Total assets in U.S. (required only if less than 90 percent of assets are located in the U.S.):* $_____

	YES	NO
7. Is line 5 at least $10 million?	___	___
**8. Is line 5 at least six times line 1?*	___	___
9. Are at least 90 percent of assets located in the U.S.? If not, complete line 10.	___	___
10. Is line 6 at least six times line 1?	___	___

[Fill in Part B if you are using the financial test to demonstrate assurance of both liability coverage and closure or post-closure care.]

PART B. CLOSURE OR POST-CLOSURE CARE AND LIABILITY COVERAGE

[Fill in Alternative I if the first criteria of LAC 33:V.3707.F.1, 3711.F.1, and 3715.F.1 or if the first criteria of LAC 33:V.4403.E.1 or 4407.E.1 and 4411.F.1 are used. Fill in Alternative II if the second criteria of LAC 33:V.3707.F.1, 3711.F.1, and 3715.F.1 or if the second criteria of LAC 33:V.4403.E.1 or 4407.E.1 and 4411.F.1 are used.]

ALTERNATIVE I

1. Sum of current closure and post-closure cost estimates (total of all cost estimates listed above): $_____

2. Amount of annual aggregate liability coverage to be demonstrated: $_____

3. Sum of lines 1 and 2: $_____

**4. Total liabilities (if any portion of your closure or post-closure cost estimates is included in your total liabilities, you may deduct that portion from this line and add that amount to lines 5 and 6):* $_____

**5. Tangible net worth:* $_____

**6. Net worth:* $_____

**7. Current assets:* $_____

**8. Current liabilities:* $_____

9. Net working capital (line 7 minus line 8): $_____

10. The sum of net income plus depreciation, depletion, and amortization: $_____

**11. Total assets in the U.S. (required only if less than 90 percent of firm's assets are located in the U.S.):* $_____

	YES	NO
12. Is line 5 at least $10 million?	___	___
13. Is line 5 at least six times line 3?	___	___

	YES	NO
14. Is line 9 at least six times line 3?	____	____
**15. Are at least 90 percent of assets located in the U.S.? If not, complete line 16.*	____	____
16. Is line 11 at least six times line 3?	____	____
17. Is line 4 divided by line 6 less than 2.0?	____	____
18. Is line 10 divided by line 4 greater than 0.1?	____	____
19. Is line 7 divided by line 8 greater than 1.5?	____	____

ALTERNATIVE II

1. Sum of current closure and post-closure cost estimates (total of all cost estimates listed above): $_____

2. Amount of annual aggregate liability coverage to be demonstrated: $_____

3. Sum of lines 1 and 2: $_____

4. Current bond rating of most recent issuance and name of rating service: _____

5. Date of issuance of bond: _____

6. Date of maturity of bond: _____

**7. Tangible net worth (if any portion of the closure or post-closure cost estimates is included in "total liabilities" on your financial statements you may add that portion to this line):* $_____

**8. Total assets in the U.S. (required only if less than 90 percent of assets are located in the U.S.):* $_____

	YES	NO
9. Is line 7 at least $10 million?	____	____
**10. Is line 7 at least six times line 3?*	____	____
11. Are at least 90 percent of assets located in the U.S.? If not, complete line 12.	____	____
12. Is line 8 at least six times line 3?	____	____

I hereby certify that the wording of this letter is identical to the wording specified in LAC 33:V.3719.G as such regulations were constituted on the date shown immediately below.

[Signature]

[Name]

[Title]

[Date]

H. Corporate Guarantees

1. A corporate guarantee, as specified in LAC 33:V.3707.F or 3711.F or 4403.E or 4407.E must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the bracket deleted.

CORPORATE GUARANTEE FOR CLOSURE OR

POST-CLOSURE CARE

Guarantee made this [date] by [name of guaranteeing entity], a business corporation organized under the laws of the State of [insert name of State], herein referred to as guarantor, to the Louisiana Department of Environmental Quality, obligee, on behalf of [owner or operator] of [business address], which is [one of the following: "our subsidiary"; "a subsidiary of (name and address of common parent corporation), of which guarantor is a subsidiary"; or "an entity with which guarantor has a substantial business relationship, as defined in LAC 33:V.3703.H or 4399"].

Recitals:

a. Guarantor meets or exceeds the financial test criteria and agrees to comply with the reporting requirements for guarantors as specified in LAC 33:V.3707.F, 3711.F, 4403.E, and 4407.E.

b. [Owner or operator] owns or operates the following hazardous waste management facility(ies) covered by this guarantee: [List for each facility: EPA Identification Number, name, and address. Indicate for each whether guarantee is for closure, post-closure care, or both.]

c. "Closure plans" and "post-closure plans" as used below refer to the plans maintained as required by LAC 33:V.Chapters 35 and 43 for the closure and post-closure care of facilities as identified above.

d: For value received from [owner or operator], guarantor guarantees to the Louisiana Department of Environmental Quality that in the event that [owner or operator] fails to perform [insert "closure," "post-closure care," or "closure and post-closure care"] of the above facility(ies) in accordance with the closure or post-closure plans and other permit or interim status requirements whenever required to do so, the guarantor shall do so or establish a trust fund as specified in LAC 33:V.Chapter 37 or 43, as applicable, in the name of [owner or operator] in the amount of the current closure or post-closure cost estimates as specified in LAC 33:V.Chapter 37 or 43.

e. Guarantor agrees that if, at the end of any fiscal year before termination of this guarantee, the guarantor fails to meet the financial test criteria, guarantor shall send within 90 days, by certified mail, notice to the administrative authority and to [owner or operator] that he intends to provide alternative financial assurance as specified in LAC 33:V.Chapter 37 or 43, as applicable, in the name of [owner or operator]. Within 120

days after the end of such fiscal year, the guarantor shall establish such financial assurance unless [owner or operator] has done so.

f. The guarantor agrees to notify the administrative authority by certified mail, of a voluntary or involuntary proceeding under Title 11 (bankruptcy), U.S. Code, naming guarantor as debtor, within 10 days after commencement of the proceeding.

g. Guarantor agrees that within 30 days after being notified by the administrative authority of a determination that guarantor no longer meets the financial test criteria or that he is disallowed from continuing as a guarantor of closure or post-closure care, he shall establish alternate financial assurance as specified in LAC 33:V.Chapter 37 or 43, as applicable, in the name of [owner or operator] unless [owner or operator] has done so.

h. Guarantor agrees to remain bound under this guarantee notwithstanding any or all of the following: amendment or modification of the closure or post-closure plan, amendment or modification of the permit, the extension or reduction of the time of performance of closure or post-closure, or any other modification or alteration of an obligation of the owner or operator pursuant to LAC 33:V.Chapter 37 or 43.

i. Guarantor agrees to remain bound under this guarantee for so long as [owner or operator] must comply with the applicable financial assurance requirements of LAC 33:V.Chapter 37 or 43 for the above-listed facilities, except as provided in this Paragraph of this agreement. [Insert the following language if the guarantor is a direct or higher-tier corporate parent, or a firm whose parent corporation is also the parent corporation of the owner or operator]: Guarantor may cancel this guarantee by sending notice by certified mail to the administrative authority and to [owner or operator], provided that this guarantee may not be canceled unless and until [the owner or operator] obtains, and the administrative authority approve(s), alternate closure and/or post-closure care coverage complying with LAC 33:V.3707, 3711, 4403, and 4407.

[Insert the following language if the guarantor is a firm qualifying as a guarantor due to its "substantial business relationship" with its owner or operator]:

Guarantor may cancel this guarantee 120 days following the receipt of notification, through certified mail, by the administrative authority, and by the owner or operator.

j. Guarantor agrees that if [owner or operator] fails to provide alternate financial assurance as specified in LAC 33:V.Chapter 37 or 43, as applicable, and obtain written approval of such assurance from the administrative authority within 90 days after a notice of cancellation by the guarantor is received by the administrative authority from guarantor, guarantor shall provide such alternative financial assurance in the name of [owner or operator].

k. Guarantor expressly waives notice of acceptance of this guarantee by the administrative authority or by [owner or operator]. Guarantor also expressly waives notice of amendments or modifications of the closure and/or post-closure plan and of amendments or modifications of the facility permit(s).

I hereby certify that the wording of this guarantee is identical to the wording specified in LAC 33:V.3719.H.1 as such regulations were constituted on the date first above written.

Effective dates: _____

[Name of guarantor]

[Authorized signature for guarantor]

[Name of person signing]

[Title of person signing]

Thus sworn and signed before me on this the ____ day of ___, 20____.

_____

Notary Public

2. A guarantee, as specified in LAC 33:V.3715.G or 4411.G, must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted.

GUARANTEE FOR LIABILITY COVERAGE

Guarantee made this [date] by [name of guaranteeing entity], a business corporation organized under the laws of [if incorporated within the United States insert "the State of ___" and insert name of state; if incorporated outside the United States insert the name of the country in which incorporated, the principal place of business within the United States, and the name and address of the registered agent in the state of the principal place of business], herein referred to as guarantor. This guarantee is made on behalf of [owner or operator] of [business address], which is [one of the following: "our subsidiary"; "a subsidiary of (name and address of common parent corporation), of which guarantor is a subsidiary"; or "an entity with which guarantor has a substantial business relationship, as defined in LAC 33:V.3703 or 4399"], to any and all third parties who have sustained or may sustain bodily injury or property damage caused by [sudden and/or non-sudden] accidental occurrences arising from operation of the facility(ies) covered by this guarantee.

Recitals

a. Guarantor meets or exceeds the financial test criteria and agrees to comply with the reporting requirements for guarantors as specified in LAC 33:V.3715.G and 4411.G

b. [Owner or operator] owns or operates the following hazardous waste management facility(ies) covered by this guarantee: [List for each facility: EPA identification number, name, and address; and if guarantor is incorporated outside the United States list the name and address of the guarantor's registered agent in each state and in Louisiana.] This corporate guarantee satisfies RCRA third-party liability requirements for [insert "sudden" or "non-sudden" or "both sudden and non-sudden"] accidental occurrences in above-named owner or operator facilities for coverage in the

amount of [insert dollar amount] for each occurrence and [insert dollar amount] annual aggregate.

c. For value received from [owner or operator], guarantor guarantees to any and all third parties who have sustained or may sustain bodily injury or property damage caused by [sudden and/or nonsudden] accidental occurrences arising from operations of the facility(ies) covered by this guarantee that in the event that [owner or operator] fails to satisfy a judgment or award based on a determination of liability for bodily injury or property damage to third parties caused by [sudden and/or nonsudden] accidental occurrences, arising from the operation of the above-named facilities, or fails to pay an amount agreed to in settlement of a claim arising from or alleged to arise from such injury or damage, the guarantor will satisfy such judgment(s), award(s), or settlement agreement(s) up to the limits of coverage identified above.

d. Exclusions. This guarantee does not apply to:

i. Bodily injury or property damage for which [insert owner or operator] is obligated to pay damages by reason of the assumption of liability in a contract or agreement. This exclusion does not apply to liability for damages that [insert owner or operator] would be obligated to pay in the absence of the contract or agreement.

ii. Any obligation of the owner or operator under a workers' compensation, disability benefits, or unemployment compensation law or any similar law.

iii. Bodily injury to:

(a). an employee of [insert owner or operator] arising from, and in the course of, employment by [insert owner or operator]; or

(b). the spouse, child, parent, brother, or sister of that employee as a consequence of, or arising from, and in the course of, employment by [insert owner or operator].

This exclusion applies:

(i). whether [insert owner or operator] may be liable as an employer or in any other capacity; and

(ii). to any obligation to share damages with or repay another person who must pay damages because of the injury to persons identified in Subclauses (a) and (b).

iv. Bodily injury or property damage arising out of the ownership, maintenance, use, or entrustment to others of any aircraft, motor vehicle, or watercraft.

v. Property damage to:

(a). any property owned, rented, or occupied by [insert owner or operator];

(b). premises that are sold, given away, or abandoned by [insert owner or operator] if the property damage arises out of any part of those premises;

(c). property loaned to [insert owner or operator];

(d). personal property in the care, custody, or control of [insert owner or operator];

(e). that particular part of real property on which [insert owner or operator] or any contractors or subcontractors working directly or indirectly on behalf of [insert owner or operator] are performing operations, if the property damage arises out of these operations.

e. Guarantor agrees that if, at the end of any fiscal year before termination of this guarantee, the guarantor fails to meet the financial test criteria, guarantor shall send within 90 days, by certified mail, notice to the administrative authority and to [owner or operator] that he intends to provide alternate liability coverage as specified in LAC 33:V.3715 and 4411, as applicable, in the name of [owner or operator]. Within 120 days after the end of such fiscal year, the guarantor shall establish such liability coverage unless [owner or operator] has done so.

f. The guarantor agrees to notify the administrative authority by certified mail of a voluntary or involuntary proceeding under Title 11 (Bankruptcy), U.S. Code, naming guarantor as debtor, within 10 days after commencement of the proceeding.

g. Guarantor agrees that within 30 days after being notified by the administrative authority of a determination that guarantor no longer meets the financial test criteria or that he is disallowed from continuing as a guarantor, he shall establish alternate liability coverage as specified in LAC 33:V.3715 or 4411 in the name of [owner or operator], unless [owner or operator] has done so.

h. Guarantor reserves the right to modify this agreement to take into account amendment or modification of the liability requirements set by LAC:33:V.3715 and 4411, provided that such modification shall become effective only if the administrative authority does not disapprove the modification within 30 days of receipt of notification of the modification.

i. Guarantor agrees to remain bound under this guarantee for so long as [owner or operator] must comply with the applicable requirements of LAC 33:V.3715 and 4411 for the above-listed facility(ies), except as provided in Subparagraph j of this agreement.

j. [Insert the following language if the guarantor is a direct or higher-tier corporate parent, or a firm whose parent corporation is also the parent corporation of the owner or operator]:

Guarantor may terminate this guarantee by sending notice by certified mail to the administrative authority and to [owner or operator], provided that this guarantee may not be terminated unless and until the [owner or operator] obtains, and the administrative authority approves, alternate liability coverage complying with LAC 33:V.3715 and/or 4411.

[Insert the following language if the guarantor is a firm qualifying as a guarantor due to its "substantial business relationship" with the owner or operator]:

Guarantor may terminate this guarantee 120 days following receipt of notification, through certified mail, by the administrative authority and by [the owner or operator].

k. Guarantor hereby expressly waives notice of acceptance of this guarantee by any party.

l. Guarantor agrees that this guarantee is in addition to and does not affect any other responsibility or liability of the guarantor with respect to the covered facilities.

m. The Guarantor shall satisfy a third-party liability claim only on receipt of one of the following documents.

i. Certification from the Principal and the third-party claimant(s) that the liability claim should be paid. The certification must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:

CERTIFICATION OF VALID CLAIM

The undersigned, as parties [insert Principal] and [insert name and address of third-party claimant(s)], hereby certify that the claim of bodily injury and/or property damage caused by a [sudden or non-sudden] accidental occurrence arising from operating [Principal's] hazardous waste treatment, storage, or disposal facility should be paid in the amount of $[ ].

[Signatures]

Principal

[Notary] *[Date]*

[Signatures]

Claimant(s)

[Notary] *[Date]*

ii. A valid final court order establishing a judgement against the Principal for bodily injury or property damage caused by sudden or non-sudden accidental occurrences arising from the operation of the Principal's facility or group of facilities.

n. In the event of combination of this guarantee with another mechanism to meet liability requirements, this guarantee will be considered [insert "primary" or "excess"] coverage.

I hereby certify that the wording of this guarantee is identical to the wording specified in LAC 33:V.3719.H.2 as such regulations were constituted on the date shown immediately below.

[Name of guarantor]

[Authorized signature of guarantor]

[Name of person signing]

[Title of person signing]

[Signature of witness or notary]

I. Liability Endorsement

1. A hazardous waste facility liability endorsement as required in LAC 33:V.3715 or 4411 must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:

HAZARDOUS WASTE FACILITY

LIABILITY ENDORSEMENT

a. This endorsement certifies that the policy to which the endorsement is attached provides liability insurance covering bodily injury and property damage in connection with the insured's obligation to demonstrate financial responsibility under LAC 33:V.3715.F or 4411. The coverage applies to [EPA Identification Number, name, and address for each facility] for [insert "sudden accidental occurrences," "non-sudden accidental occurrences," or "sudden and non-sudden accidental occurrences"; if coverage is for multiple facilities and the coverage is different for different facilities, indicate which facilities are insured for sudden accidental occurrences, which are insured for non-sudden accidental occurrences, and which are insured for both]. The limits of liability are [insert the dollar amount of the "each occurrence" and "annual aggregate" limits of the Insurer's liability], exclusive of legal defense costs.

b. The insurance afforded with respect to such occurrences is subject to all of the terms and conditions of the policy; provided, however, that any provisions of the policy inconsistent with Clauses i-v of this Subparagraph are hereby amended to conform with Clauses i-v.

i. Bankruptcy or insolvency of the Insured shall not relieve the insurer of its obligations under the policy to which this endorsement is attached.

ii. The insurer is liable for the payment of amounts within any deductible applicable to the policy, with a right of reimbursement by the Insured for any such payment made by the Insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated as specified in LAC 33:V.3715.F or 4411.

iii. Whenever requested by the administrative authority, the Insurer agrees to furnish to the administrative authority a signed duplicate original of the policy and all endorsements.

iv. Cancellation of this endorsement, whether by the Insurer, the insured, a parent corporation providing insurance coverage for its subsidiary, or by a firm having an insurable interest in and obtaining liability insurance on behalf of the owner or operator of the hazardous waste management facility, will be effective only upon written notice and only after the expiration of 60 days after a copy of such written notice is received by the administrative authority.

v. Any other termination of this endorsement will be effective only upon written notice and only after the expiration of thirty days after a copy of such written notice is received by the administrative authority.

2. Attached to and forming part of policy Number ___ issued by [name of Insurer], herein called the Insurer, of [address of Insurer] to [name of Insured] of [address] this day of _____, 20__.

3. I hereby certify that the wording of this endorsement is identical to the wording specified in LAC 33:V.3719.I as such regulation was constituted on the date first above written, and that the Insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more states, and is authorized to conduct business in the State of Louisiana.

[Signature of Authorized Representative of Insurer]

[Type name]

[Title, Authorized Representative of [Name of Insurer]]

[Address of Representative]

J. Certificate of Liability Insurance. A certificate of liability insurance as required in LAC 33:V.3715 or 4411 must be worded as follows, except that the instructions in brackets are to be replaced with the relevant information and the brackets deleted:

HAZARDOUS WASTE FACILITY CERTIFICATE OF LIABILITY INSURANCE

1. [Name of Insurer], (the "Insurer") of [address of Insurer] hereby certifies that it has issued liability insurance covering bodily injury and property damage to [name of insured], (the "insured"), of [address of insured] in connection with the insured's obligation to demonstrate financial responsibility under LAC 33:V.3715 or 4411. The coverage applies at [list EPA identification number, name, and address for each facility] for [insert "sudden accidental occurrences," "non-sudden accidental occurrences," or "sudden and non-sudden accidental occurrences"; if coverage is for multiple facilities and the coverage is different for different facilities, indicate which facilities are insured for sudden accidental occurrences, which are insured for non-sudden accidental occurrences, and which are insured for both]. The limits of liability are [insert the dollar amount of "each occurrence" and "annual aggregate" limits of the Insurer's liability], exclusive of legal defense costs. The coverage is provided under policy number _____, issued on [date]. The effective date of said policy is [date].

2. The insurer further certifies the following with respect to the insurance described in Paragraph 1.

a. Bankruptcy or insolvency of the insured shall not relieve the insurer of its obligation under the policy.

b. The insurer is liable for the payment of amounts within any deductible applicable to the policy, with a right of reimbursement by the insured for any such payment made by the insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated as specified in LAC 33:V.3715.F or 4411.

c. Whenever requested by the administrative authority, the insurer agrees to furnish to the administrative authority a signed duplicate original of the policy and all endorsements.

d. Cancellation of the insurance, whether by the insurer, the insured, a parent corporation providing insurance coverage for its subsidiary, or by a firm having an insurable interest in and obtaining liability insurance on behalf of the owner or operator of the hazardous waste management facility, will be effective only upon written notice and only after the expiration of 60 days after a copy of such written notice is received by the administrative authority.

e. Any other termination of the insurance will be effective only upon written notice and only after the expiration of 30 days after a copy of such written notice is received by the administrative authority.

I hereby certify that the wording of this instrument is identical to the wording specified in LAC 33:V.3719.J as such regulation was constituted on the date this certificate was issued, as indicated below, and that the insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess of surplus lines insurer, in one or more states, and is authorized to conduct insurance business in the state of Louisiana.

[Signature of authorized representative of Insurer]

[Type name]

[Title], Authorized Representative of [Name of Insurer]

[Address of Representative]

DATE OF ISSUANCE: _____.

K. Letter of Credit. A letter of credit, as specified in LAC 33:V.3715 or 4411, must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted.

IRREVOCABLE STANDBY LETTER OF CREDIT

Secretary

Louisiana Department of Environmental Quality

P.O. Box 4313

Baton Rouge, LA 70821-4313

Attention: Office of Environmental Services
Waste Permit Division

Dear Sir or Madam:

We hereby establish our Irrevocable Standby Letter of Credit Number_____in the favor of ["any and all third-party liability claimants" or insert name of trustee of the standby trust fund], at the request and for the account of [owner or operator's name and address] for third-party liability awards or settlements up to [in words] U.S. dollars $_____ per occurrence and the annual aggregate amount of [in words] U.S.

dollars, for sudden accidental occurrences and/or for third-party liability awards or settlements up to the amount of [in words] U.S. dollars $_____ per occurrence, and the annual aggregate amount of [in words] U.S. dollars $_____for nonsudden accidental occurrences available upon presentation of a sight draft bearing reference to this Letter of Credit Number_____, and [insert the following language if the letter of credit is being used without a standby trust fund:]

1. A signed certificate reading as follows:

CERTIFICATE OF VALID CLAIM

The undersigned, as parties [insert principal] and [insert name and address of third-party claimant(s)], hereby certify that the claim of bodily injury and/or property damage caused by a [sudden or non-sudden] accidental occurrence arising from operations of [principal's] hazardous waste treatment, storage, or disposal facility should be paid in the amount of $_____. We hereby certify that the claim does not apply to any of the following:

a. Bodily injury or property damage for which [insert principal] is obligated to pay damages by reason of the assumption of liability in a contract or agreement. This exclusion does not apply to liability for damages that [insert principal] would be obligated to pay in the absence of the contract or agreement.

b. Any obligation of [insert principal] under a workers' compensation, disability benefits, or unemployment compensation law or any similar law.

c. Bodily injury to:

i. an employee of [insert principal] arising from, and in the course of, employment by [insert principal]; or

ii. the spouse, child, parent, brother, or sister of that employee as a consequence of, or arising from, and in the course of employment by [insert principal].

This exclusion applies:

(a). whether [insert principal] may be liable as an employer or in any other capacity; and

(b). to any obligation to share damages with or repay another person who must pay damages because of the injury to persons identified in Clause K.1.c.i or ii of this Section.

d. Bodily injury or property damage arising out of the ownership, maintenance, use, or entrustment to others of any aircraft, motor vehicle, or watercraft.

e. Property damage to:

i. any property owned, rented, or occupied by [insert principal];

ii. premises that are sold, given away, or abandoned by [insert principal] if the property damage arises out of any part of those premises;

iii. property loaned to [insert principal];

iv. personal property in the care, custody, or control of [insert principal];

v. that particular part of real property on which [insert principal] or any contractors or subcontractors working directly or indirectly on behalf of [insert principal] are performing operations, if the property damage arises out of these operations.

[Signatures]

Grantor

[Signatures]

Claimant(s)

2. Or, as an alternative to the Certificate of Valid Claim, a valid final court order establishing a judgment against the Grantor for bodily injury or property damage caused by sudden or nonsudden accidental occurrences arising from the operation of the Grantor's facility or group of facilities.

This Letter of Credit is effective as of [date] and shall expire on [date at least one year later], but such expiration date shall be automatically extended for a period of [at least one year] on [date] and on each successive expiration date, unless, at least 120 days before the current expiration date, we notify you, the administrative authority, and [owner's or operator's name] by certified mail that we have decided not to extend this letter of credit beyond the current expiration date.

Whenever this Letter of Credit is drawn on under and in compliance with the terms of this credit, we shall duly honor such draft upon presentation to us.

[Insert the following language if a standby trust fund is not being used: "In the event that this letter of credit is used in combination with another mechanism for liability coverage, this letter of credit shall be considered [insert "primary" or "excess" coverage]."

We certify that the wording of this letter of credit is identical to the wording specified in LAC 33:V.3719.K as such regulations were constituted on the date shown immediately below.

[Signature(s) and title(s) of official(s) of issuing institution [Date]]

This credit is subject to [insert "the most recent edition of the Uniform Customs and Practice for Documentary Credits published and copyrighted by the International Chamber of Commerce" or "the Uniform Commercial Code"].

L. Surety Bond. A surety bond, as specified in LAC 33:V.3715 or 4411, must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted.

PAYMENT BOND

Surety Bond Number [insert number]

Parties [insert name and address of owner or operator], Principal, incorporated in [insert state of incorporation] of [insert city and state of principal place of business], and

[insert name and address of Surety Company(ies)], surety company(ies), of [insert surety(ies) place of business].

EPA identification number, name, and address for each facility guaranteed by this bond:

	Sudden Accidental Occurrences	Non-sudden Accidental Occurrences
Penal Sum per Occurrence	[insert amount]	[insert amount]
Annual Aggregate	[insert amount]	[insert amount]

Purpose: This is an agreement between the surety(ies) and the Principal under which the Surety(ies), its (their) successors and assignees, agree to be responsible for the payment of claims against the principal for bodily injury and/or property damage to third parties caused by ["sudden" and/or "non-sudden"] accidental occurrences arising from operations of the facility or group of facilities in the sums prescribed herein, subject to the governing provisions and the following conditions.

1. Governing Provisions

a. Section 3004 of the Resource Conservation and Recovery Act of 1976, as amended.

b. Rules and regulations of the U.S. Environmental Protection Agency (EPA), particularly 40 CFR 264.147 or 265.147 (if applicable).

c. Rules and regulations of the Louisiana Department of Environmental Quality, particularly LAC 33:V.3715 and 4411, as applicable.

2. Conditions

a. The Principal is subject to the applicable governing provisions that require the Principal to have and maintain liability coverage for bodily injury and property damage to third parties caused by ["sudden" and/or "non-sudden"] accidental occurrences arising from operations of the facility or group of facilities. Such obligation does not apply to any of the following:

i. Bodily injury or property damage for which [insert principal] is obligated to pay damages by reason of the assumption of liability in a contract or agreement. This exclusion does not apply to liability for damages that [insert principal] would be obligated to pay in the absence of the contract or agreement.

ii. Any obligation of [insert principal] under a workers' compensation, disability benefits, or unemployment compensation law or similar law.

iii. Bodily injury to:

(a). an employee of [insert principal] arising from, and in the course of, employment by [insert principal]; or

(b). the spouse, child, parent, brother, or sister of that employee as a consequence of, or arising from, and in the course of employment by [insert principal]. This exclusion applies:

(i). whether [insert principal] may be liable as an employer or in any other capacity; and

(ii). to any obligation to share damages with or repay another person who must pay damages because of the injury to persons identified in Subclauses (a) and (b) above.

iv. Bodily injury or property damage arising out of the ownership, maintenance, use, or entrustment to others of any aircraft, motor vehicle, or watercraft.

v. Property damage to:

(a). any property owned, rented, or occupied by [insert principal];

(b). premises that are sold, given away, or abandoned by [insert Principal] if the property damage arises out of any part of those premises;

(c). property loaned to [insert Principal];

(d). personal property in the care, custody, or control of [insert Principal];

(e). that particular part of real property on which [insert principal] or any contractors or subcontractors working directly or indirectly on behalf of [insert principal] are performing operations, if the property damage arises out of these operations.

b. This bond assures that the Principal will satisfy valid third-party liability claims, as described in Condition a.

c. If the Principal fails to satisfy a valid third-party liability claim, as described above, the Surety(ies) become(s) liable on this bond obligation.

d. The Surety(ies) shall satisfy a third-party liability claim only upon the receipt of one of the following documents.

i. Certification from the Principal and the third-party claimant(s) that the liability claim should be paid. The certification must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:

CERTIFICATION OF VALID CLAIM

The undersigned, as parties [insert name of Principal] and [insert name and address of third-party claimant(s)], hereby certify that the claim of bodily injury and/or property damage caused by a [sudden or non-sudden] accidental occurrence arising from operating [Principal's] hazardous waste treatment, storage, or disposal facility should be paid in the amount of $[ ].

[Signature]

Principal

[Notary] *[Date]*

[Signature(s)]

Claimant(s)

[Notary] *[Date]*

ii. A valid final court order establishing a judgement against the Principal for bodily injury or property damage caused by sudden or non-sudden accidental occurrences arising from the operation of the Principal's facility or group of facilities.

e. In the event of combination of this bond with another mechanism for liability coverage, this bond will be considered [insert "primary" or "excess"] coverage.

f. The liability of the Surety(ies) shall not be discharged by any payment or succession of payments hereunder, unless and until such payment or payments shall amount in the aggregate to the penal sum of the bond. In no event shall the obligation of the Surety(ies) hereunder exceed the amount of said annual aggregate penal sum, provided that the Surety(ies) furnish(es) notice to the administrative authority forthwith of all claims filed and payments made by the Surety(ies) under this bond.

g. The Surety(ies) may cancel the bond by sending notice of cancellation by certified mail to the Principal and the administrative authority, provided, however, that cancellation shall not occur during the 120 days beginning on the date of receipt of the notice of cancellation by the Principal and the administrative authority, as evidenced by the return receipt.

h. The Principal may terminate this bond by sending written notice to the Surety(ies) and to the administrative authority.

i. The Surety(ies) hereby waive(s) notification of amendments to applicable laws, statutes, rules, and regulations and agree(s) that no such amendment shall in any way alleviate its (their) obligation on this bond.

j. This bond is effective from [insert date] (12:01 a.m., standard time, at the address of the Principal as stated herein) and shall continue in force until terminated as described above.

In Witness Whereof, the Principal and Surety(ies) have executed this Bond and have affixed their seals on the date set forth above.

The persons whose signatures appear below hereby certify that they are authorized to execute this surety bond on behalf of the Principal and Surety(ies) and that the wording of this surety bond is identical to the wording specified in LAC 33:V.3719, as such regulations were constituted on the date this bond was executed.

PRINCIPAL

[Signature(s)]

[Name(s)]

[Title(s)]

[Corporate Seal]

CORPORATE SURETY[IES]

[Name and address]

State of incorporation:

Liability Limit: $

[Signature(s)]

[Name(s) and title(s)]

[Corporate seal]

[For every co-surety, provide signature(s), corporate seal, and other information in the same manner as for surety above.]

Bond premium: $

M. Trust Agreement

1. A trust agreement, as specified in LAC 33:V.3715 and 4411, must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted.

TRUST AGREEMENT

Trust Agreement, the "Agreement," entered into as of [date] by and between [name of the owner or operator] a [name of state] [insert "corporation," "partnership," "association," or "proprietorship"], the "Grantor," and [name of corporate trustee], [insert, "incorporated in the state of _____" or "a national bank"], the "Trustee."

WHEREAS, the United States Environmental Protection Agency, "EPA," an agency of the United States Government, has established certain regulations applicable to the Grantor, requiring that an owner or operator of a hazardous waste management facility or group of facilities must demonstrate financial responsibility for bodily injury and property damage to third parties caused by sudden accidental and/or nonsudden accidental occurrences arising from operations of the facility or group of facilities.

WHEREAS, the Grantor has elected to establish a trust to assure all or part of such financial responsibility for the facilities identified herein.

WHEREAS, the Grantor, acting through its duly authorized officers, has selected the Trustee to be the trustee under this Agreement, and the Trustee is willing to act as trustee.

NOW, THEREFORE, the Grantor and the Trustee agree as follows:

Section 1. Definitions. As used in this Agreement:

a. The term "Grantor" means the owner or operator who enters into this Agreement and any successors or assigns of the Grantor.

b. The term "Trustee" means the Trustee who enters into this Agreement and any successor Trustee.

Section 2. Identification of Facilities

This agreement pertains to the facilities identified on attached Schedule A [on Schedule A, for each facility list the EPA Identification Number, name, and address of the facility(ies) and the amount of liability coverage, or portions thereof, if more than one instrument affords combined coverage as demonstrated by this Agreement].

Section 3. Establishment of Fund

The Grantor and the Trustee hereby establish a trust fund, hereinafter the "Fund," for the benefit of any and all third parties injured or damaged by [sudden and/or nonsudden] accidental occurrences arising from operation of the facility(ies) covered by this guarantee, in the amounts of _____ [up to $5 million] per occurrence and ____ [up to $10 million] annual aggregate for sudden accidental occurrences, exclusive of legal defense costs and_____ [up to $3 million] per occurrence and _____ [up to $6 million] annual aggregate for nonsudden occurrences exclusive of legal defense costs, except that the Fund is not established for the benefit of third parties for the following:

a. Bodily injury or property damage for which [insert Grantor] is obligated to pay damages by reason of the assumption of liability in a contract or agreement. This exclusion does not apply to liability for damages that [insert Grantor] would be obligated to pay in the absence of the contract or agreement.

b. Any obligation of [insert Grantor] under a workers' compensation, disability benefits, or unemployment compensation law or any similar law.

c. Bodily injury to:

i. an employee of [insert Grantor] arising from, and in the course of, employment by [insert Grantor]; or

ii. the spouse, child, parent, brother, or sister of that employee as a consequence of, or arising from, and in the course of employment by [insert Grantor].

This exclusion applies:

(a). whether [insert Grantor] may be liable as an employer or in any other capacity; and

(b). to any obligation to share damages with or repay another person who must pay damages because of the injury to persons identified in Clauses i and ii above.

d. Bodily injury or property damage arising out of the ownership, maintenance, use, or entrustment to others of any aircraft, motor vehicle, or watercraft.

e. Property damage to:

i. any property owned, rented, or occupied by [insert Grantor];

ii. premises that are sold, given away, or abandoned by [insert Grantor] if the property damage arises out of any part of those premises;

iii. property loaned to [insert Grantor];

iv. personal property in the care, custody, or control of [insert Grantor];

v. that particular part of real property on which [insert Grantor] or any contractors or subcontractors working directly or indirectly on behalf of [insert Grantor] are performing operations, if the property damage arises out of these operations.

In the event of combination with another mechanism for liability coverage, the fund shall be considered [insert "primary" or "excess"] coverage.

The Fund is established initially as consisting of the property, which is acceptable to the Trustee, described in Schedule B attached hereto. Such property and any other property subsequently transferred to the Trustee is referred to as the Fund, together with all earnings and profits thereon, less any payments or distributions made by the Trustee pursuant to this Agreement. The Fund shall be held by the Trustee, IN TRUST as hereinafter provided. The Trustee shall not be responsible nor shall it undertake any responsibility for the amount or adequacy of, nor any duty to collect from the Grantor, any payments necessary to discharge any liabilities of the Grantor established by EPA.

Section 4. Payment for Bodily Injury or Property Damage

The Trustee shall satisfy a third-party liability claim by making payments from the Fund only upon receipt of one of the following documents.

a. Certification from the Grantor and the third-party claimant(s) that the liability claim should be paid. The certification must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:

CERTIFICATION OF VALID CLAIM

The undersigned, as parties [insert Grantor] and [insert name and address of third-party claimant(s)], hereby certify that the claim of bodily injury and/or property damage caused by a [sudden or non-sudden] accidental occurrence arising from operating [Grantor's] hazardous waste treatment, storage, or disposal facility should be paid in the amount of $[ ].

[Signatures]

Grantor

[Signatures]

Claimant(s)

b. A valid final court order establishing a judgement against the Grantor for bodily injury or property damage caused by sudden or non-sudden accidental occurrences arising from the operation of the Grantor's facility or group of facilities.

Section 5. Payments Comprising the Fund.

Payments made to the Trustee for the Fund shall consist of cash or securities acceptable to the Trustee.

Section 6. Trustee Management

The Trustee shall invest and reinvest the principal and income, in accordance with general investment policies and guidelines which the Grantor may communicate in

writing to the Trustee from time to time, subject, however, to the provisions of this Section. In investing, reinvesting, exchanging, selling, and managing the Fund, the Trustee shall discharge his duties with respect to the trust fund solely in the interest of the beneficiary and with the care, skill, prudence, and diligence under the circumstance then prevailing which persons of prudence, acting in a like capacity and familiar with such matters, would use in the conduct of an enterprise of a like character and with like aims, except that:

a. securities or other obligations of the Grantor, or any other owner or operator of the facilities, or any of their affiliates as defined in the Investment Company Act of 1940, as amended, 15 U.S.C. 80a-2.(a), shall not be acquired or held unless they are securities or other obligations of the federal or a state government;

b. the Trustee is authorized to invest the Fund in time or demand deposits of the Trustee, to the extent insured by an agency of the federal or state government; and

c. the Trustee is authorized to hold cash awaiting investment or distribution uninvested for a reasonable time and without liability for the payment of interest thereon.

Section 7. Commingling and Investment

The Trustee is expressly authorized in its discretion:

a. to transfer from time to time any or all of the assets of the Fund to any common commingled or collective trust fund created by the Trustee in which the fund is eligible to participate, subject to all of the provisions thereof, to be commingled with the assets of other trusts participating therein; and

b. to purchase shares in any investment company registered under the Investment Company Act of 1940, 15 U.S.C. 81a-1 et seq., including one which may be created, managed, underwritten, or to which investment advice is rendered or the shares of which are sold by the Trustee. The Trustee may vote such shares in its discretion.

Section 8. Express Powers of Trustee

Without in any way limiting the powers and discretions conferred upon the Trustee by the other provisions of this Agreement or by law, the trustee is expressly authorized and empowered:

a. To sell, exchange, convey, transfer, or otherwise dispose of any property held by it, by public or private sale. No person dealing with the Trustee shall be bound to see to the application of the purchase money or to inquire into the validity or expediency of any such sale or other disposition.

b. To make, execute, acknowledge, and deliver any and all documents of transfer and conveyance and any and all other instruments that may be necessary or appropriate to carry out the powers herein granted.

c. To register any securities held in the Fund in its own name or in the name of a nominee and to hold any security in bearer form or in book entry, or to combine certificates representing such securities with certificates of the same issue held by the Trustee in other fiduciary capacities, or to deposit or arrange for the deposit of such securities in a qualified central depositary even though, when so deposited, such

securities may be merged and held in bulk in the name of the nominee of such depositary with other securities deposited therein by another person, or to deposit or arrange for the deposit of any securities issued by the United States Government, or any agency or instrumentality thereof, with a Federal Reserve bank, but the books and records of the Trustee shall at all times show that all such securities are part of the Fund.

d. To deposit any cash in the Fund in interest-bearing accounts maintained or savings certificates issued by the Trustee, in its separate corporate capacity, or in any other banking institution affiliated with the Trustee, to the extent insured by an agency of the federal or state government.

e. To compromise or otherwise adjust all claims in favor of or against the Fund.

Section 9. Taxes and Expenses

All taxes of any kind that may be assessed or levied against or in respect of the Fund and all brokerage commissions incurred by the Fund shall be paid from the fund. All other expenses incurred by the Trustee in connection with the administration of this Trust, including fees for legal services rendered to the Trustee, the compensation of the Trustee to the extent not paid directly by the Grantor, and all other proper charges and disbursements of the Trustee shall be paid from the fund.

Section 10. Annual Valuations

The Trustee shall annually, at least 30 days prior to the anniversary date of establishment of the Fund, furnish to the Grantor and to the administrative authority a statement confirming the value of the Trust. Any securities in the Fund shall be valued at market value as of no more than 60 days prior to the anniversary date of establishment of the Fund. The failure of the Grantor to object in writing to the Trustee within 90 days after the statement has been furnished to the Grantor and the administrative authority shall constitute a conclusively binding assent by the Grantor barring the Grantor from asserting any claim or liability against the Trustee with respect to matters disclosed in the statement.

Section 11. Advice of Counsel

The Trustee may from time to time consult with counsel, who may be counsel to the Grantor with respect to any question arising as to the construction of this Agreement or any action to be taken hereunder. The Trustee shall be fully protected, to the extent permitted by law, in acting upon the advice of counsel.

Section 12. Trustee Compensation

The Trustee shall be entitled to reasonable compensation for its services as agreed upon in writing from time to time with the Grantor.

Section 13. Successor Trustee

The Trustee may resign or the Grantor may replace the Trustee, but such resignation or replacement shall not be effective until the Grantor has appointed a successor trustee and this successor accepts the appointment. The successor trustee shall have the same powers and duties as those conferred upon the Trustee hereunder. Upon the successor trustee's acceptance of the appointment, the Trustee shall assign, transfer, and pay over to the

successor trustee the funds and properties then constituting the Fund. If for any reason the Grantor cannot or does not act in the event of the resignation of the Trustee, the Trustee may apply to a court of competent jurisdiction for the appointment of a successor trustee or for instructions. The successor trustee shall specify the date on which it assumes administration of the trust in a writing sent to the Grantor, the administrative authority, and the present Trustee by certified mail 10 days before such change becomes effective. Any expenses incurred by the Trustee as a result of any of the acts contemplated by this Section shall be paid as provided in Section 9.

Section 14. Instructions to the Trustee

All orders, requests, and instructions by the Grantor to the Trustee shall be in writing, signed by such persons as are designated in the attached Exhibit A or such other designees as the Grantor may designate by amendments to Exhibit A. The Trustee shall be fully protected in acting without inquiry in accordance with the Grantor's orders, requests, and instructions. All orders, requests, and instructions by the administrative authority to the Trustee shall be in writing, signed by the administrative authority, or his or her designee, and the Trustee shall act and shall be fully protected in acting in accordance with such orders, requests, and instructions. The Trustee shall have the right to assume, in the absence of written notice to the contrary, that no event constituting a change or a termination of the authority of any person to act on behalf of the grantor or the administrative authority hereunder has occurred. The Trustee shall have no duty to act in the absence of such orders, requests, and instructions from the Grantor and/or the administrative authority, except as provided for herein.

Section 15. Notice of Nonpayment

If a payment for bodily injury or property damage is made under Section 4 of this trust, the Trustee shall notify the Grantor of such payment and the amount(s) thereof within five working days. The Grantor shall, on or before the anniversary date of the establishment of the Fund following such notice, either make payments to the Trustee in amounts sufficient to cause the trust to return to its value immediately prior to the payment of claims under Section 4, or shall provide written proof to the Trustee that other financial assurance for liability coverage has been obtained equalling the amount necessary to return the trust to its value prior to the payment of claims. If the Grantor does not either make payments to the Trustee or provide the Trustee with such proof, the Trustee shall within 10 working days after the anniversary date of the establishment of the Fund provide a written notice of nonpayment to the administrative authority.

Section 16. Amendment of Agreement

This Agreement may be amended by an instrument in writing executed by the Grantor, the Trustee, and the administrative authority, or by the Trustee and the administrative authority if the Grantor ceases to exist.

Section 17. Irrevocability and Termination

Subject to the right of the parties to amend this Agreement as provided in Section 16, this Trust shall be irrevocable and shall continue until terminated at the written agreement of the Grantor, the Trustee, and the administrative authority, or by the Trustee

and the administrative authority, if the Grantor ceases to exist. Upon termination of the Trust, all remaining trust property, less final trust administration expenses, shall be delivered to the Grantor.

The administrative authority will agree to termination of the Trust when the owner or operator substitutes alternate financial assurance as specified in LAC 33:V.Chapter 37 or 44.

Section 18. Immunity and Indemnification

The Trustee shall not incur personal liability of any nature in connection with any act or omission, made in good faith, in the administration of this Trust, or in carrying out any directions by the Grantor or the administrative authority issued in accordance with this Agreement. The Trustee shall be indemnified and saved harmless by the Grantor or from the Trust Fund, or both, from and against any personal liability to which the Trustee may be subjected by reason of any act or conduct in its official capacity, including all expenses reasonably incurred in its defense in the event the Grantor fails to provide such defense.

Section 19. Choice of Law

This Agreement shall be administered, construed, and enforced according to the laws of the State of Louisiana.

Section 20. Interpretation

As used in this Agreement, words in the singular include the plural and words in the plural include the singular. The descriptive headings for each section of this Agreement shall not affect the interpretation or the legal efficacy of this Agreement.

In Witness Whereof the parties have caused this Agreement to be executed by their respective officers duly authorized and their corporate seals to be hereunto affixed and attested as of the date first above written. The parties below certify that the wording of this Agreement is identical to the wording specified in LAC 33:V.3719 as such regulations were constituted on the date first above written.

[Signature of Grantor]

[Title]

Attest:

[Title]

[Seal]

[Signature of Trustee]

Attest:

[Title]

[Seal]

2. The following is an example of the certification of acknowledgement which must accompany the trust agreement for a trust fund as specified in LAC 33:V.3715 or 4411.

State of Louisiana

Parish of

On this [date], before me personally came [owner or operator] to me known, who, being by me duly sworn, did depose and say that she/he resides at [address], that she/he is [title] of [corporation], the corporation described in and which executed the above instrument; that she/he knows the seal of said corporation; that the seal affixed to such instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation; and that she/he signed her/his name thereto by like order.

Witness:

_____

_____ _____

THUS DONE AND SIGNED before me this _____day of _____, _____, in

_____

NOTARY PUBLIC

N. Standby Trust Agreement

1. A standby trust agreement, as specified in LAC 33:V.3715.H. or 4411.H, must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted.

STANDBY TRUST AGREEMENT

Trust Agreement, the "Agreement," entered into as of [date] by and between [name of the owner or operator] a [name of a State] [insert "corporation," "partnership," "association," or "proprietorship"], the "Grantor," and [name of corporate trustee], [insert, "incorporated in the State of _____" or "a national bank"], the "Trustee."

WHEREAS, the United States Environmental Protection Agency, "EPA," an agency of the United States Government, has established certain regulations applicable to the Grantor, requiring that an owner or operator of a hazardous waste management facility or group of facilities must demonstrate financial responsibility for bodily injury and property damage to third parties caused by sudden accidental and/or non-sudden accidental occurrences arising from operations of the facility or group of facilities.

WHEREAS, the Grantor has elected to establish a standby trust into which the proceeds from a letter of credit may be deposited to assume all or part of such financial responsibility for the facilities identified herein.

WHEREAS, the Grantor, acting through its duly authorized officers, has selected the Trustee to be the trustee under this agreement, and the trustee is willing to act as trustee.

NOW, THEREFORE, the Grantor and the Trustee agree as follows:

Section 1. Definitions. As used in this Agreement:

a. The term "Grantor" means the owner or operator who enters into this Agreement and any successors or assigns of the Grantor.

b. The term "Trustee" means the trustee who enters into this Agreement and any successor Trustee.

Section 2. Identification of Facilities

This agreement pertains to the facilities identified on attached Schedule A [on Schedule A, for each facility list the EPA identification number, name, and address of the facility(ies) and the amount of liability coverage, or portions thereof, if more than one instrument affords combined coverage as demonstrated by this Agreement].

Section 3. Establishment of Fund

The Grantor and the Trustee hereby establish a standby trust fund, hereafter the "Fund," for the benefit of any and all third parties injured or damaged by [sudden and/or non-sudden] accidental occurrences arising from operation of the facility(ies) covered by this guarantee, in the amounts of _____[up to $1 million] per occurrence and _____[up to $2 million] annual aggregate for sudden accidental occurrences, and _____[up to $3 million] per occurrence and _____[up to $6 million] annual aggregate for non-sudden occurrences, except that the Fund is not established for the benefit of third parties for the following:

a. Bodily injury or property damage for which [insert Grantor] is obligated to pay damages by reason of the assumption of liability in a contract or agreement. This exclusion does not apply to liability for damages that [insert Grantor] would be obligated to pay in the absence of the contract or agreement.

b. Any obligation of [insert Grantor] under a workers' compensation, disability benefits, or unemployment compensation law or any similar law.

c. Bodily injury to:

i. an employee of [insert Grantor] arising from, and in the course of, employment by [insert Grantor]; or

ii. the spouse, child, parent, brother, or sister of that employee as a consequence of, or arising from, and in the course of employment by [insert Grantor].

This exclusion applies:

(a). whether [insert Grantor] may be liable as an employer or in any other capacity, and

(b). to any obligation to share damages with or repay another person who must pay damages because of the injury to persons identified in Clauses i and ii above.

d. Bodily injury or property damage arising out of the ownership, maintenance, use, or entrustment to others of any aircraft, motor vehicle, or watercraft.

e. Property damage to:

i. any property owned, rented, or occupied by [insert Grantor];

ii. premises that are sold, given away, or abandoned by [insert Grantor] if the property damage arises out of any part of those premises;

iii. property loaned to [insert Grantor];

iv. personal property in the care, custody, or control of [insert Grantor];

v. that particular part of real property on which [insert Grantor] or any contractors or subcontractors working directly or indirectly on behalf of [insert Grantor] are performing operations, if the property damage arises out of these operations.

In the event of combination with another mechanism for liability coverage, the fund shall be considered [insert "primary" or "excess"] coverage.

The Fund is established initially as consisting of the proceeds of the letter of credit deposited into the Fund. Such proceeds and any other property subsequently transferred to the Trustee is referred to as the Fund, together with all earnings and profits thereon, less any payments or distributions made by the Trustee pursuant to this Agreement. The Fund shall be held by the Trustee, IN TRUST, as hereinafter provided. The Trustee shall not be responsible nor shall it undertake any responsibility for the amount or adequacy of, nor any duty to collect from the Grantor, any payments necessary to discharge any liabilities of the Grantor established by EPA.

Section 4. Payment for Bodily Injury or Property Damage

The Trustee shall satisfy a third-party liability claim by drawing on the letter of credit described in Schedule B and by making payments from the Fund only upon receipt of one of the following documents:

a. Certification from the Grantor and the third-party claimant(s) that the liability claim should be paid. The certification must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:

CERTIFICATION OF VALID CLAIM

The undersigned, as parties [insert Grantor] and [insert name and address of third-party claimant(s)], hereby certify that the claim of bodily injury and/or property damage caused by a [sudden or non-sudden] accidental occurrence arising from operating [Grantor's] hazardous waste treatment, storage, or disposal facility should be paid in the amount of $[_____].

[Signatures]

Grantor

[Signatures]

Claimant(s)

b. A valid final court order establishing a judgement against the Grantor for bodily injury or property damage caused by sudden or non-sudden accidental occurrences arising from the operation of the Grantor's facility or group of facilities.

Section 5. Payments Comprising the Fund

Payments made to the Trustee for the Fund shall consist of the proceeds from the letter of credit drawn upon by the Trustee in accordance with the requirements of LAC 33:V.3719.K and Section 4 of this Agreement.

Section 6. Trustee Management

The Trustee shall invest and reinvest the principal and income, in accordance with general investment policies and guidelines which the Grantor may communicate in writing to the Trustee from time to time, subject, however, to the provisions of this Section. In investing, reinvesting, exchanging, selling, and managing the Fund, the Trustee shall discharge his duties with respect to the trust fund solely in the interest of the beneficiary and with the care, skill, prudence, and diligence under the circumstances then prevailing which persons of prudence, acting in a like capacity and familiar with such matters, would use in the conduct of an enterprise of a like character and with like aims, except that:

a. securities or other obligations of the Grantor, or any other owner or operator of the facilities, or any of their affiliates as defined in the Investment Company Act of 1940, as amended, 15 U.S.C. 80a-2(à), shall not be acquired or held, unless they are securities or other obligations of the federal or a state government;

b. the Trustee is authorized to invest the Fund in time or demand deposits of the Trustee, to the extent insured by an agency of the federal or a state government; and

c. the Trustee is authorized to hold cash awaiting investment or distribution uninvested for a reasonable time and without liability for payment of interest thereon.

Section 7. Commingling and Investment

The Trustee is expressly authorized in its discretion:

a. to transfer from time to time any or all of the assets of the Fund to any common, commingled, or collective trust fund created by the Trustee in which the Fund is eligible to participate, subject to all of the provisions thereof, to be commingled with the assets of other trusts participating therein; and

b. to purchase shares in any investment company registered under the Investment Company Act of 1940, 15 U.S.C. 80a-1 et seq., including one which may be created, managed, underwritten, or to which investment advice is rendered or the shares of which are sold by the Trustee. The Trustee may vote such shares in its discretion.

Section 8. Express Powers of Trustee

Without in any way limiting the powers and discretions conferred upon the Trustee by the other provisions of this Agreement or by law, and Trustee is expressly authorized and empowered:

a. To sell, exchange, convey, transfer, or otherwise dispose of any property held by it, by public or private sale. No person dealing with the Trustee shall be bound to see to the application of the purchase money or to inquire into the validity or expediency or any such sale or other disposition.

b. To make, execute, acknowledge, and deliver any and all documents of transfer and conveyance and any and all other instruments that may be necessary or appropriate to carry out the powers herein granted.

c. To register any securities held in the Fund in its own name or in the name of a nominee and to hold any security in bearer form or in book entry, or to combine certificates representing such securities with certificates of the same issue held by the Trustee in other fiduciary capacities, or to deposit or arrange for the deposit of such securities in a qualified central depositary even though, when so deposited, such securities may be merged and held in bulk in the name of the nominee of such depositary with other securities deposited herein by another person, or to deposit or arrange for the deposit of any securities issued by the United States government, or any agency or instrumentality thereof, with a Federal Reserve Bank, but the books and records of the Trustee shall at all times show that all such securities are part of the Fund.

d. To deposit any cash in the Fund in interest-bearing accounts maintained or savings certificates issued by the Trustee, in its separate corporate capacity, or in any other banking institution affiliated with the Trustee, to the extent insured by an agency of the federal or state government.

e. To compromise or otherwise adjust all claims in favor of or against the Fund.

Section 9. Taxes and Expenses

All taxes of any kind that may be assessed or levied against or in respect of the Fund and all brokerage commissions incurred by the Fund shall be paid from the Fund. All other expenses incurred by the Trustee in connection with the administration of this Trust, including fees for legal services rendered to the Trustee, the compensation of the Trustee to the extent not paid directly by the Grantor, and all other proper charges and disbursements to the Trustee shall be paid from the Fund.

Section 10. Advice of Counsel

The Trustee may from time to time consult with counsel, who may be counsel to the Grantor, with respect to any question arising as to the construction of this Agreement or any action to be taken hereunder. The Trustee shall be fully protected, to the extent permitted by law, in acting upon the advice of counsel.

Section 11. Trustee Compensation

The Trustee shall be entitled to reasonable compensation for its services as agreed upon in writing from time to time with the Grantor.

Section 12. Successor Trustee

The Trustee may resign or the Grantor may replace the Trustee, but such resignation or replacement shall not be effective until the Grantor has appointed a successor trustee and this successor accepts the appointment. The successor trustee shall have the same powers and duties as those conferred upon the Trustee hereunder. Upon the successor trustee's acceptance of the appointment, the Trustee shall assign, transfer, and pay over to the successor trustee the funds and properties then constituting the Fund. If for any reason the Grantor cannot or does not act in the event of the resignation of the Trustee, the

Trustee may apply to a court of competent jurisdiction for the appointment of a successor trustee or for instructions. The successor trustee shall specify the date on which it assumes administration of the trust in a writing sent to the Grantor, the administrative authority, and the present Trustee by certified mail 10 days before such change becomes effective. Any expenses incurred by the Trustee as a result of any of the acts contemplated by this Section shall be paid as provided in Section 9.

Section 13. Instructions to the Trustee

All orders, requests, certifications of valid claims, and instructions to the Trustee shall be in writing, signed by such persons as are designated in the attached Exhibit A or such other designees as the Grantor may designate by amendments to Exhibit A. The Trustee shall be fully protected in acting without inquiry in accordance with the Grantor's orders, requests, and instructions. The Trustee shall have the right to assume, in the absence of written notice to the contrary, that no event constituting a change or a termination of the authority of any person to act on behalf of the Grantor or the administrative authority hereunder has occurred. The Trustee shall have no duty to act in the absence of such orders, requests, and instructions from the Grantor and/or the administrative authority, except as provided for herein.

Section 14. Amendment of Agreement

This Agreement may be amended by an instrument in writing executed by the Grantor, the Trustee, and the administrative authority if the grantor ceases to exist.

Section 15. Irrevocability and Termination

Subject to the right of the parties to amend this Agreement as provided in Section 14, this Trust shall be irrevocable and shall continue until terminated at the written agreement of the Grantor, the Trustee, and the administrative authority, or by the Trustee and the administrative authority, if the Grantor ceases to exist. Upon termination of the Trust, all remaining trust property, less final trust administration expenses, shall be paid to the grantor.

The administrative authority will agree to termination of the Trust when the owner or operator substitutes alternative financial assurances as specified in LAC 33:V.Chapter 37 or 44.

Section 16. Immunity and Indemnification

The Trustee shall not incur personal liability of any nature in connection with any act or omission, made in good faith, in the administration of this Trust, or in carrying out any directions by the Grantor and the administrative authority issued in accordance with this Agreement. The Trustee shall be indemnified and saved harmless by the Grantor or from the Trust Fund, or both, from and against any personal liability to which the Trustee may be subjected by reason of any act or conduct in its official capacity, including all expenses reasonably incurred in its defense in the event the Grantor fails to provide such defense.

Section 17. Choice of Law

This Agreement shall be administered, construed, and enforced according to the laws of the State of Louisiana.

Section 18. Interpretation

As used in this Agreement, words in the singular include the plural and words in the plural include the singular. The descriptive headings for each section of this Agreement shall not affect the interpretation of the legal efficacy of this Agreement.

In Witness Whereof the parties have caused this Agreement to be executed by their respective officers duly authorized and their corporate seals to be hereunto affixed and attested as of the date first above written. The parties below certify that the wording of this Agreement is identical to the wording specified in LAC 33:V.3719.N as such regulations were constituted on the date first above written.

[Signature of Grantor]

[Title]

Attest:

[Title]

[Seal]

[Signature of Trustee]

Attest:

[Title]

[Seal]

2. The following is an example of the certification of acknowledgement which must accompany the trust agreement for a standby trust fund as specified in LAC 33:V.3715.H or 4411.H.

State of Louisiana

Parish of

On this [date], before me personally came [owner or operator] to me known, who, being by me duly sworn, did depose and say that she/he resides at [address], that she/he is [title] of [corporation], the corporation described in and which executed the above instrument; that she/he knows the seal of said corporation; that the seal affixed to such instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that she/he signed her/his name thereto by like order.

Witness:

_____

_____

_____

THUS DONE AND SIGNED before me this _____ day of _____, _____, in _____.

_____

NOTARY PUBLIC

The Facility will ensure that the wording of its current and future financial instruments conforms to the requirements of the above regulation, as applicable.

APPENDIX A

CERTIFICATION AND SIGNATORIES

Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Date 3/20/2008

Scott Kuhn, Vice President Environmental Compliance

APPENDIX B

POST-CLOSURE PLAN

POST-CLOSURE PLAN

1.0 INTRODUCTION

The purpose of this Post-Closure Plan for Clean Harbors Baton Rouge, LLC is to provide for proper maintenance and monitoring of closed landfill Cell 717 in an environmentally sound and technically feasible manner, in accordance with applicable state and federal hazardous waste management regulations as they pertain to post-closure care for hazardous waste disposal facilities. This plan outlines requirements for the personnel involved in administering post-closure activities along with a detailed discussion of post-closure care procedures.

2.0 PERSONNEL REQUIREMENTS

Following closure of the entire facility, staffing at Clean Harbors Baton Rouge, LLC will be kept at a minimum. Personnel who will be involved in post-closure activities of Cell 717 are identified, and the responsibilities of each are discussed below.

A. Closure Coordinator

The Closure Coordinator is responsible for administering the Post-Closure Plan following the completion of closure activities. He will supervise all post-closure care activities including inspections, maintenance of cover systems, operation of the leachate collection and removal system, the leak detection, collection, and removal system, wastewater treatment system, and operation of the groundwater monitoring system. The Closure Coordinator is responsible for keeping the Post-Closure Plan up to date and for serving as a liaison between Clean Harbors Baton Rouge, LLC and the regulatory agencies throughout the post-closure care period. The Closure Coordinator will also oversee the post-closure of the facility property to ensure compliance with Chapter 35 of the Louisiana Administrative Code, Title 33, Part V.

B. Closure Engineer

The Closure Engineer will be responsible for supervising any maintenance performed on the cover system, the leachate collection and removal system, the leak detection, collection and removal system, the wastewater treatment system, and the groundwater monitoring system. He will inspect any repairs performed on cover systems to ensure that the integrity of the cover system is maintained.

C. Maintenance/Operations Supervisor

The Maintenance/Operations Supervisor will be responsible for conducting all post-

closure care activities. He will be in charge of all post-closure inspections, security, maintenance, monitoring, operations, and repairs. The Maintenance/Operations Supervisor will inspect the cells on a routine basis, perform repairs and maintenance as necessary on cover systems or equipment, and operate the leachate collection and removal system, the leak detection, collection and removal system, wastewater treatment system, and the groundwater monitoring system. He will be responsible for ensuring all post-closure activities are performed in accordance with the approved Post-Closure Plan and in accordance with all applicable state and federal regulations. The Maintenance/Operations Supervisor will report directly to the Closure Coordinator.

D. Facility Contact Person

The facility contact during the post-closure care period is as follows:

Closure Coordinator
Clean Harbors Baton Rouge, LLC
13351 Scenic Highway
Baton Rouge, Louisiana 70807
(225) 778-1234

3.0 POST-CLOSURE PLAN OVERVIEW

Most of the post-closure care activities will represent a continuation of standard Clean Harbors Baton Rouge, LLC operational practices throughout the post-closure care period. The design of the cover system for Cell 717 minimizes the need to maintain a stormwater control system as the cover will be constructed to minimize erosion from surface water run-off and to divert run-on. The leachate collection and removal system, leak detection, collection and removal system, and wastewater treatment system currently in operation are used to remove and treat leachate from the landfill. The collection and treatment systems will continue to operate throughout the post-closure care period. The existing groundwater monitoring system will continue to operate throughout the post-closure care period, unless results of the groundwater monitoring data indicate the need to establish a different groundwater monitoring program.

The post-closure care period is anticipated to continue for thirty (30) years following final closure of Cell 717 in accordance with LAC 33:V.3521 However, the Administrative Authority may reduce the post-closure care period if leachate or groundwater monitoring results, waste characterization work, application of advanced technology or alternate disposal treatment or re-use techniques indicate that Cell 717 is secure and a reduced time period is sufficient to protect human health and the environment.

Post-Closure use of the facility will not disturb the integrity of the final cover, liner(s), or any other components of the containment system, or the function of the monitoring system as required by LAC 33:V.3521, unless the Administrative Authority finds that the disturbance is necessary to the proposed use of the property, and will not increase the potential hazard to human health or the

environment, or it is necessary to reduce a threat to human health or the environment.

The Post-Closure activities described in this plan have been developed in accordance with Chapter 35 of LAC 33:V. The plan provides a description of the anticipated monitoring activities and the frequencies with which they will be performed to comply with Subchapter B of Chapter 35 of LAC 33:V., during the post-closure care period. The plan also includes a description of the anticipated maintenance activities and the frequencies with which they will be performed to ensure the integrity of the cap, final cover, and other containment systems in accordance with the requirements of Subchapter M. Procedures that Clean Harbors Baton Rouge, LLC will follow when amending or modifying the Post-Closure Plan are as described in LAC 33:V.3523.

The Closure Coordinator will have prepared by a professional land surveyor a certified plat for the site, showing the locations and dimensions of Cell 717. The locations and dimensions will be relative to permanently surveyed benchmarks and will show the latitude and longitude of the closed cells. The plat will contain a prominently displayed note stating the facility's obligation to restrict disturbance of the site as specified in LAC 33:V.3525. Copies of the plat and the inventory will be provided to the Administrative Authority and will be entered into the East Baton Rouge Parish land records. Clean Harbors Baton Rouge, LLC will submit signed certification to the Administrative Authority certifying that the notice to the land authority and notice to the deed have been done in accordance with LAC 33:V.3525. These will also be made available to any future purchaser, lessee, or other user of the property. A notation to the effect that the land has been used to manage hazardous waste and that its use is restricted under LAC 33:V.3525, will be permanently placed on the deed to the facility property or on some other instrument which is normally examined during a title search. Along with the plat, the Closure Coordinator has prepared from the site RCRA operating records, a waste inventory summarizing the general types and quantities of waste and their locations on the site at closure. This information is maintained on-site.

In accordance with LAC 33:V.3527, Clean Harbors Baton Rouge, LLC will submit to the Administrative Authority a certification that the post-closure care activities for Cell 717 were performed in accordance with the specifications in the approved Post-Closure Plan. The certification will be submitted no later than sixty (60) days after the completion of the established post-closure care period for Cell 717 and will be signed by Clean Harbors Baton Rouge, LLC and independent registered professional engineer.

4.0 POST-CLOSURE ACTIVITIES

The Post-Closure Plan is designed to comply with post-closure requirements contained in LAC 33:V.3519 through 3527, including maintenance and monitoring throughout the post-closure care period. Post-closure responsibilities include site inspections, site security, maintenance of the final cover, maintenance of stormwater controls, maintenance of surveyed benchmarks, operation of the leachate collection and removal systems, the leak detection, collection, and removal systems, and maintenance and monitoring of the groundwater monitoring system in accordance with provisions of LAC 33:V.Chapter 33.

A. Inspections

Clean Harbors Baton Rouge, LLC will conduct quarterly inspections of the closed landfill units to determine the need for and the required extent of maintenance or other corrective measures. Emergency inspections will also be performed when there has been more than five (5) inches of rainfall in a 24-hour period. The inspections will include a walk over and visual inspection of the cover system for Cell 717, adjacent areas, security fencing and devices, the leachate collection and removal systems, the leak detection, collection, and removal system, wastewater treatment system, the groundwater monitoring system, and the stormwater control system. The cover system will be inspected for evidence of erosion or washout, seepage, burrowing animals, growth of vegetation (other than shallow-rooted grass), and any other circumstances that may impact the integrity of the final cover. Inspections on the security systems will be conducted to identify holes or breaks in the perimeter fences, to test the condition of the gates and locking devices, and to assess the condition of the perimeter warning signs. The leachate collection and treatment systems will be inspected for breaks, clogs, or leaks in the leachate extraction and removal risers and the piping to the wastewater treatment system. Leachate extraction pumps and all treatment system components will be inspected for signs of wear or operational malfunctions. The groundwater monitoring system will be inspected for signs of casing failure or tampering through visual examination of each monitoring well. Perimeter levees, dikes, and interior drainage ditches and run-off control structures will be inspected to ensure that adequate control of on-site drainage exists. Completed inspection forms will be submitted to the Closure Coordinator who will recommend and schedule maintenance on those items requiring attention.

B. Security

Although no wastes will remain exposed after completion of closure activities, access to the site by the public or by domestic livestock will be restricted by perimeter fencing and warning signs. Security devices will be maintained to prevent unauthorized entry to the facility during the post-closure care period. These measures will satisfy the requirements of LAC 33:V.3521.

C. Maintenance of Final Cover

The integrity of the final cover system over the closed Cell 717 will be maintained throughout the post-closure care period through a comprehensive inspection and maintenance program. To maintain the ground cover vegetation, the area will be mowed twice yearly and fertilized every ten years (if needed). The mowing schedule should prevent the growth of weeds and brush species, thus protecting the integrity of the cover system. The topographic contours in the closed disposal areas will be surveyed every ten (10) years during the post-closure care period. Repairs to the cover system will be performed as necessary based on the results of the quarterly inspections and surveys. All cover system damage will be repaired generally within a period of one month following the discovery.

Repairs will be carried out to bring all lines and grades to match with their undamaged surroundings. Where repeated damage suggests a problem with the original design elevations, appropriate steps will be taken to permanently correct the situation. As necessary, repairs will include reducing the pitch of the slope, construction of berms, protection of slopes and channels by riprap and the use of special energy dissipaters such as check dams. Should any of the repairs need to be conducted at a time of year when re-seeding of the vegetative cover is impractical, the repaired top soil covers will be mechanically protected through the use of geotextiles, matting, mulch, hay bales, etc. until re-seeding is accomplished and the new growth is firmly established.

Damage to the vegetative cover will be repaired as necessary by re-seeding at the proper times of year. Top soil will be protected until re-seeding can be accomplished. Following re-seeding, inspections of re-seeded areas will be conducted by the Closure Coordinator, until the vegetation is restored to its original condition. Re-seeded areas will be protected until the growth is firmly re-established. Where repeated damage occurs, alterations to the type of ground cover or its fertilization frequency may be implemented.

If any surface irregularities in the cap shape or contour are observed, they will be investigated immediately upon discovery, to determine if any damage has been done to the impermeable layers of the cap. If these layers have been breached, repairs will be made as soon as practically possible. The investigation will also determine whether the impermeable layer still has the required slope for free drainage through the flow zone, in order to ensure that liquids do not puddle and collect on this layer. If necessary, this slope will be restored within a period not exceeding one month following the discovery.

Repairs will also include restoration of the flow zone, top soil, and vegetation, as necessary.

D. Maintenance of Stormwater Controls

The control of run-on and run-off in the closed Cell 717 area is an integral part of the design of the final cover system. By maintaining the original grade of the cover system, erosion or scouring of the cover system by stormwater flow will be minimized. The maintenance of these slopes is included in maintenance of the final cover system. There is little reason to expect blockage of the run-off channels, but if such an event did occur, the blockage could be readily removed manually, or by the use of a backhoe available on site or from numerous rental agencies in the area. Inspection of the drainage channels will be included in each inspection.

E. Maintenance of Surveyed Benchmarks

Benchmarks used as reference for the survey plat as required by LAC 33:V.3521 and Chapter 25 identifying the locations and dimensions of Cell 717 will be permanently surveyed benchmarks that have been previously established throughout the facility. These benchmarks will be examined during each inspection, and the condition of each will be

noted. If the condition of the benchmark is unsatisfactory, it will be replaced with another suitable marker, and an appropriate notation will be made on the survey plat.

F. Maintenance and Monitoring of the Leachate Collection System

The leachate collection and removal system and the leak detection, collection , and removal system installed in Cell 717 will continue to operate throughout the post-closure period. The systems will be checked during each inspection for evidence of liquids. If liquids are present in the systems, the facility will pump out the liquid to the leachate tank for storage and eventual treatment in the wastewater treatment facility. In the event that the wastewater treatment facility is temporarily out of service, the facility may utilize an appropriately permitted off-site TSDF for the disposition of leachate.

G. Maintenance and Monitoring of the Groundwater Monitoring System

Clean Harbors Baton Rouge, LLC will maintain the groundwater monitoring system by ensuring that the groundwater monitoring equipment remains functional in accordance with the requirements of LAC 33:V.Chapter 33. The facility will examine the components of the groundwater monitoring system during each inspection throughout the post-closure care period for signs of wear and malfunction. The well casings will be visually inspected for signs of failure and contamination of the screened interval by surface water or groundwater. Repairs will be made to the system as required and in the event of irreparable casing failure, the well will be abandoned using approved abandonment techniques, such as plugging the well to the surface with cement or other grout material. If, due to unforeseen circumstances, the number of operable monitoring wells decreases to the point at which the general groundwater monitoring requirements can no longer be satisfied, additional wells will be installed until the program achieves compliance with these requirements.

The planned monitoring activities and frequencies at which they will be performed to comply with LAC 33:V.33 during the post-closure care period is the same as in the current groundwater monitoring plan. The post-closure groundwater monitoring program will utilize the existing groundwater monitoring system to satisfy the general groundwater monitoring requirements specified in LAC 33:V.Chapter33.

H. Waste Volume.

The total volume of waste placed in Cell 717 has been calculated to be approximately 1,900,000 cubic yards (+/- 1178 acre-feet).

I. Post-Closure Cost Estimate

The cost estimate for Post-Closure care activities over the 30-year post-closure care period is included, along with the financial assurance documentation, in Appendix D.

APPENDIX C

TABLES AND DRAWINGS

CLEAN HARBORS BATON ROUGE, LLC
Cell 717 Post Closure Permit Tables and Drawings List
Appendix C

Table No.	Title
Table 1	Water Well Search
Drawing No.	**Title**
Drawing 100	Aerial Map – 1000 Foot Radius
Drawing 101	Aerial Map – Land Use
Drawing 102	Topographic Map – 1000 Foot Radius
Drawing 103	Topographic Map Water Well Locations
Drawing 104	Topographic Map Surface Water Flow
Drawing 105	Facility Plot Plan as of December 2007
Drawing 106	Topographic Map – 100 Year Flood Map
Drawing 107	Reserved
Drawing 108	Reserved
Drawing 109	Reserved
Drawing 110	Wind Rose
Drawing 200	Leachate Collection P&ID
Figure No.	**Title**
Figure 2	Compliance Point Wells
Figure 2A	Point of Compliance
Figure 3	Compliance Wells Upgradient
Figure 4	Compliance Wells Downgradient
Figure 5	Corrective Action Wells
Figure 6	Piezometers
Figure 7	Process Wells

Table 1: Water Well Search
Public Works & Water Resources Division
Water Resources Section

Wells located within 2.75 mile radius of Latitude 30°34'05" and Longitude 91°12'55"

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	Lati tude	Longi tude	Avail Info	Distance in Miles
East Baton Rouge	068	EXXON CHEMICAL	- 40	MTF1	EBERHART	1280	ABANDONED	4X2.50	09/15	+42	00/00/15	12115BR	303301	911044	W	2.48
East Baton Rouge	057	MUNSON, W	- 148		SUMMERS, D. K.	1349	DOMESTIC	2	10/35			12115BR	303334	911203	D	1.04
East Baton Rouge	051	ALSEN WATER CO	- 149	1	SUMMERS, D. K.	1280	PLUGGED	3	12/38			12115BR	303421	911230	D	0.51
East Baton Rouge	074	BATON ROUGE WW	- 310	OBS#17	EBERHART	1321	PLUGGED	4X2.50	07/26	+36	07/21/26	12115BR	303215	911131	Q W	2.52
East Baton Rouge	068	EB PUBLIC WORKS	- 313	INCI	SUMMERS, D. K.	391	PLUGGED	3	02/40	65	02/11/40	11206BR	303259	911211	D W	1.46
East Baton Rouge	076	HAUSE, W	- 346		SUMMERS, D. K.	1604	DOMESTIC	2	06/37	93	02/20/64	12117BR	303539	911159	D Q W	2.02
East Baton Rouge	068	EXXON CO USA	- 358	MTF2	EBERHART	1302	PLUGGED	8X6	03/41	+17.30	03/31/41	12115BR	303248	911053	D W	2.49
East Baton Rouge	076	EVANS, H	- 380		SUMMERS, D. K.	1122	DOMESTIC	2	06/37	+23	06/14/37	12115BR	303552	911211	D W	2.17
East Baton Rouge	076	MCVEA, W	- 383		SUMMERS, D. K.	264	DESTROYED	2				11204BR	303606	911208	Q	2.44
East Baton Rouge	076	MCVEA, W	- 384		EBERHART	1916	DOMESTIC	6X4	11/44	+27	02/27/45	12224BR	303606	911208	DMQ W	2.44

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	0.98
East Baton Rouge	086	LA TRAINING INS	- 432		EBERHART	1942	PUBLIC SUPPLY	8	03/46	+48.50	03/28/46	12224BR	303506	911214	DMQ W	1.35
East Baton Rouge	074	BATON ROUGE WW	- 456	ELMER	EBERHART	1895	PLUGGED		07/47			12220BR	303215	911131	MQ	2.52
East Baton Rouge	086	MCVEA	- 457		SUMMERS, D. K.	913	DOMESTIC	4	08/47	80	00/00/58	12112BR	303518	911234	M W	1.44
East Baton Rouge	044	CAPITAL WTR COR	- 460		CLEMARD	460	DESTROYED	4	08/47	40	08/01/47	11206BR	303440	911257	Q W	0.67
East Baton Rouge	044	ACME BRICK	- 464		CLEMARD	280	DESTROYED	4	1947	55	00/00/47	11204BR	303453	911252	W	0.92
East Baton Rouge	069	EXXON CO USA	- 491	MTF3	EBERHART	1320	INDUSTRIAL	8X6	08/48			12115BR	303248	911054	M	2.48
East Baton Rouge	044	ACME BRICK	- 515	2	UNKNOWN	280	PLUGGED	4	1958			11204BR	303451	911250		0.88
East Baton Rouge	056	AMERICAN HOECHS	- 561	1	SUMMERS, D. K.	1361	INDUSTRIAL	10X8X6	09/53	19	09/23/53	12115BR	303311	911213	D Q W	1.24
East Baton Rouge	056	AMERICAN HOECHS	- 572	2	SUMMERS, D. K.	2511	INDUSTRIAL	12X10X9	02/55	+46.70	02/04/55	12228BR	303310	911207	EDM Q PW	1.32
East Baton Rouge	051	PARISH WATER CO	- 585	2	SUMMERS, D. K.	1331	PLUGGED	6X4	05/56	22	05/16/56	12115BR	303421	911230	ED Q W	0.51
East Baton Rouge	049	ALLIED CHEM	- 589	2	EBERHART	1006	PLUGGED	12	04/56	68	05/01/56	12112BR	303339	911214	EDM Q W	0.84
East Baton Rouge	057	LA CHEM POLYMER	- 628	1	EBERHART	2575	ABANDONED	12X9	01/57	+30	04/01/57	12228BR	303322	911217	EDM Q W	1.03
East Baton Rouge	048	ALLIED CHEM	- 629	1	EBERHART	1025	INDUSTRIAL	12X9	02/57	86	06/20/62	12112BR	303343	911225	DMQ W	0.65

East Baton Rouge	044	UNION TANK CAR	- 645		EBERHART	2579	INDUSTRIAL	12X8	11/57	+35	12/05/57	12228BR	303500	911405	ED Q W	1.56
East Baton Rouge	051	EB SCHOOL BOARD	- 651	ALSEN	SUMMERS, D. K.	1311	PLUGGED	6X3	07/55	23	07/27/55	12115BR	303421	911210	D Q W	0.80
East Baton Rouge	058	BR PORT COMM	- 655		EBERHART	1341	PUBLIC SUPPLY	12	08/58	13.94	08/28/58	12115BR	303332	911302	E Q W	0.64
East Baton Rouge	051	PARISH WATER CO	- 659	2	EBERHART	1295	PUBLIC SUPPLY	8X6	10/58	38.99	01/07/59	12115BR	303408	911132	EDM Q W	1.37
East Baton Rouge	083	KAISER ALUMINUM	- 675		AIRHART	720	ABANDONED	2	05/56	67	05/01/56	12110BR	303558	911432	E W	2.69
East Baton Rouge	053	EB REC PARK COM	- 685		SUMMERS, D. K.	1640	OBSERVATIO N	6X3	06/55	48.95	04/30/59	12117BR	303350	911009	ED Q W	2.75
East Baton Rouge	002	STUPP CORP	- 686	A	EBERHART	1346	PLUGGED	8X6X6	03/59			12115BR	303327	911044	ED Q	2.28
East Baton Rouge	056	AMERICAN HOECHS	- 723	3	UNKNOWN	2512	INDUSTRIAL	16X12X1 0	07/60	+22.90	07/01/60	12228BR	303313	911202	W	1.32
East Baton Rouge	054	PARISH WATER CO	- 729	BEECHW OOD	SUMMERS, D. K.	1711	PLUGGED	6X4	12/59	60	12/21/59	12220BR	303319	911023	D Q W	2.65
East Baton Rouge	043	SOUTHERN UNIV	- 742	A	SUMMERS, D. K.	1620	ABANDONED	4X2.50	08/59	59	08/11/59	12117BR	303448	911224	D W	0.97
East Baton Rouge	042	SOUTHERN UNIV	- 743	B	SUMMERS, D. K.	1641	ABANDONED	6X3	08/59	59	08/17/59	12117BR	303450	911128	ED W	1.67
East Baton Rouge	044	SCHUYLKIL L META	- 748	1	SUMMERS, D. K.	1277	INDUSTRIAL	6X4	03/60	41	03/10/60	12115BR	303507	911434	D W	2.02
East Baton Rouge	074	EB PUBLIC WORKS	- 812	1	LAYNE (LA)	2002	PLUGGED	13X8X6	05/61	116	05/12/61	12220BR	303157	911206	ED W	2.58
East Baton Rouge	068	EXXON PLASTICS	- 859	PLO1	LAYNE (LA)	2440	INDUSTRIAL	18X12X8	03/67	4	04/10/68	12228BR	303311	911048	ED W	2.33

East Baton Rouge	068	EXXON PLASTICS	- 860	PLO2	LAYNE (LA)	2435	INDUSTRIAL	18X12X8	05/68	5.40	04/11/68	12228BR	303311	911050	W	2.30
East Baton Rouge	035	PARISH WATER CO	- 867	ST IRMALEE	SUMMERS BROS	1368	PLUGGED	4X5	09/64	64	09/29/64	12115BR	303342	911119	D W	1.64
East Baton Rouge	048	ROLLINS ENV SER	- 886		STAMM-SCHEELE	384	INDUSTRIAL	10X6	08/70	51.30	05/26/72	11206BR	303404	911240	ED Q W	0.25
East Baton Rouge	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	1.28
East Baton Rouge	044	PROOF-COAT	- 937		HERRINGTON	336	PLUGGED	6	1967	40.63	05/28/74	11204BR	303445	911256	W	0.77
East Baton Rouge	057	LA CHEM POLYMER	- 950	2	EBERHART	2559	ABANDONED	12X8X8	09/64	FLOWING	10/09/64	12228BR	303327	911219	DM W	0.94
East Baton Rouge	057	LA CHEM POLYMER	- 964	3	EBERHART	2534	ABANDONED	16X10	05/68	64.67	07/24/74	12228BR	303333	911208	D W	0.99
East Baton Rouge	056	LA CHEM POLYMER	- 965	4	EBERHART	2547	INDUSTRIAL	16X10X10	07/68	61.50	05/01/75	12228BR	303322	911203	D W	1.19
East Baton Rouge	056	DELTECH CORP	- 966	4	UNKNOWN	2471	ABANDONED	18X12X8	05/71	50.80	05/13/71	12228BR	303313	911209	EDM PW	1.25
East Baton Rouge	044	EXIDE CORP	- 967	2	SUMMERS BROS	1920	PLUGGED	8X4	05/70	57	05/18/70	12224BR	303506	911434	D W	2.01
East Baton Rouge	057	PAXON POLYMER	- 977	3	EBERHART	1340	INDUSTRIAL	18X12	05/68	88	04/01/69	12115BR	303335	911222	D W	0.79
East Baton Rouge	048	PAXON POLYMER	- 978	4	EBERHART	2540	INDUSTRIAL	16X10X10	03/76	68	05/01/76	12228BR	303341	911225	D W	0.67
East Baton Rouge	044	REYNOLDS METALS	- 979	2	LAYNE (LA)	1300	PLUGGED	12X6	09/70	112	05/21/74	12115BR	303456	911428	DM PW	1.82
East Baton Rouge	044	REYNOLDS METALS	- 980	1	EBERHART	1270	PLUGGED	12X6	07/62	116	02/29/76	12115BR	303504	911428	D W	1.90

East Baton Rouge	056	EXXON CHEMICAL	- 984	CHEM RESIN	EBERHART	1365	INDUSTRIAL	24X12X7	08/68	90	12/04/70	12115BR	303326	911148	ED W	1.33
East Baton Rouge	002	STUPP CORP	- 985	B	SUMMERS, D. K.	1346	PLUGGED	8X6	1969			12115BR	303333	911043		2.26
East Baton Rouge	069	U S GEOL SURVEY	-1000	TEST	LAYNE (LA)	2926	OBSERVATIO N	10X2.50	12/77	45.06	12/19/77	12228BR	303251	911150	EDM Q W	1.78
East Baton Rouge	043	LA TRAINING INS	-1001	2	STAMM-SCHEELE	1926	PUBLIC SUPPLY	10X6X6	10/77	65	05/13/77	12224BR	303453	911228	ED W	1.02
East Baton Rouge	057	AMERICAN HOECHS	-1002	5	UNKNOWN	2570	INDUSTRIAL	16X12X8	11/77	65	12/16/77	12228BR	303311	911224	DM W	1.15
East Baton Rouge	044	SCHUYLKIL L META	-1020	3	SUMMERS, D. K.	2441	INDUSTRIAL	10X6X4	07/79	94	06/15/79	12226BR	303502	911434	ED W	1.96
East Baton Rouge	053	CITY CONCRETE	-1023		SUMMERS (TERRY)	170	INDUSTRIAL	6	03/80	26.38	03/20/80	112SLBR	303356	911033	D Q W	2.35
East Baton Rouge	051	PARISH WATER CO	-1027	SCENIC	SUMMERS BROS	1926	PUBLIC SUPPLY	9X7	09/78	70	09/05/78	12224BR	303424	911229	W	0.56
East Baton Rouge	044	UNION TANK CAR	-1034	2	EBERHART	2608	INDUSTRIAL	10X6	01/82	70	12/11/81	12228BR	303501	911405	ED W	1.57
East Baton Rouge	044	REYNOLDS METALS	-1048	3	LAYNE (LA)	1288	INDUSTRIAL	12X6X6	01/83	126	01/31/83	12115BR	303456	911428	EDM W	1.82
East Baton Rouge	044	PETRO PROCESSOR	-1078		UNKNOWN	230	PLUGGED	4		60.75	08/06/84	11204BR	303454	911431	Q W	1.84
East Baton Rouge	074	U S GEOL SURVEY	-1081		U.S.G.S.	77	OBSERVATIO N	2	10/84	18.59	11/05/84	112SLBR	303227	911128	ED Q W	2.36
East Baton Rouge	048	U S GEOL SURVEY	-1082		U.S.G.S.	75	DESTROYED	2	11/84	22.85	11/06/84	112SLBR	303339	911249	ED Q W	0.51
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	1.28

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	0.82
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	0.79
East Baton Rouge	053	U S GEOL SURVEY	-1093		U.S.G.S.	36	PLUGGED	2	01/85	6.54	02/14/85	112SLBR	303331	911018	D Q W	2.67
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	1.93
East Baton Rouge	044	NPC SERVICES	-1098	BRW-2	CAPOZZOLI	42	PLUGGED	4	04/85	10.45	05/08/85	112SLBR	303448	911429	D W	1.75
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	1.76
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	2.24
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	1.89
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	1.82
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	1.63
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	2.04
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	1.80
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	1.99
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	1.91

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	1.67
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	1.83
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	2.01
East Baton Rouge	044	NPC SERVICES	-1111	VB-3A	GDC	19	PLUGGED	2	07/85			112SLBR	303515	911422	ED	1.96
East Baton Rouge	044	NPC SERVICES	-1112	VB-6	CAPOZZOLI	36	PLUGGED	2	06/85	28.47	07/31/85	112SLBR	303513	911413	ED W	1.83
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	1.74
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	1.80
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	1.64
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	1.69
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	1.83
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	1.80
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	1.80
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	1.90
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	1.93

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	1.88
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	1.47
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	1.30
East Baton Rouge	044	NPC SERVICES	-1127	SDG-4	CAPOZZOLI	94	MONITOR	4	01/85	10.05	03/12/85	112SLBR	303511	911306	ED W	1.28
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	1.47
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	1.30
East Baton Rouge	044	KAISER ENERGY	-1131		GUICHARD	949	RIG SUPPLY	4	09/85	105	09/30/85	12112BR	303522	911323	D W	1.54
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	1.58
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	1.58
East Baton Rouge	044	NPC SERVICES	-1142	DDG1	STAMM-SCHEELE	420	OBSERVATION	6	02/85	27	02/11/85	11204BR	303507	911306	DM W	1.20
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	1.18
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	1.45
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	1.80

East Baton Rouge	045	NPC SERVICES	-1146	DDG2	STAMM-SCHEELE	330	OBSERVATIO N	6	01/85	14.50	01/03/85	11204BR	303437	911418	D W	1.50
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	1.75
East Baton Rouge	044	RICE-CARDEN	-1152	1	STAMM-SCHEELE	1231	INDUSTRIAL	6X4X4	05/87	122	05/26/87	12115BR	303455	911417	EDM BPW	1.66
East Baton Rouge	048	ROLLINS ENV SER	-1153	2	STAMM-SCHEELE	977	INDUSTRIAL	16X10	09/87	104	09/23/87	12112BR	303418	911236	ED PW	0.40
East Baton Rouge	044	REYNOLDS METALS	-1155		EBERHART	1296	INDUSTRIAL	12X8	08/87	120.5	08/19/87	12115BR	303502	911424	ED W	1.83
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	1.83
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	1.66
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	1.96
East Baton Rouge	056	EXXON CHEMICAL	-1171	CHEM RESIN	LAYNE (LA)	445	INDUSTRIAL	10X6	02/85	49.6	03/25/85	11206BR	303327	911148	EDM Q W	1.32
East Baton Rouge	044	ANTON PLASTICS	-1184		LAMBERT'S	195	INDUSTRIAL	4	05/88	35	06/01/88	11204BR	303451	911253	D W	0.88
East Baton Rouge	073	NAQUIN, MICHEAL	-1213		GILL (JACK)	220	PUBLIC SUPPLY	4	04/89	35	04/14/89	11204BR	303243	911140	D W	2.00
East Baton Rouge	044	NPC SERVICES	-1260	P-2303	STAMM-SCHEELE	1252	INDUSTRIAL	10X8X8 X8	01/94	94	02/09/94	12115BR	303503	911450	EDM PW	2.20
East Baton Rouge	058	PAXON POLYMER	-1268	5	LAYNE (BR)	2504	INDUSTRIAL	18X12X1 2	11/95	71	11/01/95	12228BR	303335	911237	EDM PW	0.65
East Baton Rouge	056	EXXON CHEMICAL	-1292	3	STAMM-SCHEELE	2420	INDUSTRIAL	18X10	09/98	80	09/04/98	12228BR	303327	911145	D W	1.36

East Baton Rouge	053	BREC	-1324		AMY, M. E.	265	IRRIGATION	10X8X6	08/03	48	08/11/03	11204BR	303346	911011	D W	2.73
East Baton Rouge	078	SOUTH LA PRODUC	-5001Z	CRUMHO LT 1	RIG WATER	360	PLUGGED		07/79			11204BR	303612	911220		2.50
East Baton Rouge	044	CHEVRON	-5021Z	KAISER 1	BROWN, H.	285	PLUGGED		04/82			11204BR	303509	911254		1.22
East Baton Rouge	041	CELERON OIL-GAS	-5031Z	SL 6890 2	RIG WATER	920	PLUGGED		01/81			12112BR	303444	911113		1.84
East Baton Rouge	045	MARTIN EXPLOR	-5034Z	EWELL 2	GUICHARD	336	PLUGGED		07/82			11204BR	303438	911405		1.31
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	1.59
East Baton Rouge	083	KAISER ALUMINUM	-5103Z		UNKNOWN	58	PLUGGED	2				112SLBR	303558	911432		2.69
East Baton Rouge	048	ROLLINS ENV SER	-5120Z	GM15-A	SOIL TESTING	40	MONITOR	2	07/84			112SESC	303353	911313		0.38
East Baton Rouge	048	ROLLINS ENV SER	-5121Z	GM15-B	SOIL TESTING	64	MONITOR	2	07/84			112SESC	303353	911313		0.38
East Baton Rouge	048	ROLLINS ENV SER	-5188Z	9C-R	WARE LIND	136	MONITOR	4	12/85			112SLBR	303435	911302	D	0.59
East Baton Rouge	054	EXXON PLASTICS	-5201Z	MW-A	BURMAH	31	MONITOR	4	01/86	1.17	01/06/86	112SESC	303309	911033	D W	2.57
East Baton Rouge	069	EXXON PLASTICS	-5202Z	MW-B	BURMAH	31	MONITOR	4	01/86	1.56	01/06/86	112SESC	303304	911048	D W	2.40
East Baton Rouge	054	EXXON PLASTICS	-5203Z	MW-C	BURMAH	31	MONITOR	4	01/86	5.13	01/06/86	112SESC	303303	911041	D W	2.51
East Baton Rouge	048	ROLLINS ENV SER	-5212Z	9C	EUSTIS	130	PLUGGED		02/86			11200NW M	303407	911258		0.06

East Baton Rouge	044	NPC SERVICES	-5213Z	GM-1	GERAGHTY	34	PLUGGED		07/81			112SESC	303521	911304		1.46
East Baton Rouge	044	NPC SERVICES	-5214Z	GM-2D	GERAGHTY	104	PLUGGED		07/81			112SLBR	303513	911030		2.72
East Baton Rouge	044	NPC SERVICES	-5215Z	GM-2S	GERAGHTY	37	PLUGGED		07/81			112SESC	303513	911300		1.30
East Baton Rouge	044	NPC SERVICES	-5216Z	GM-3	GERAGHTY	21	PLUGGED		07/81			112SESC	303507	911300		1.19
East Baton Rouge	044	NPC SERVICES	-5217Z	BL-2	UNDERGROUND	26	PLUGGED		12/81			112SESC	303448	911437		1.87
East Baton Rouge	044	NPC SERVICES	-5218Z	BL-5	UNDERGROUND	33	PLUGGED		11/81			112SESC	303445	911436		1.83
East Baton Rouge	044	NPC SERVICES	-5219Z	GM-7	GERAGHTY	49	PLUGGED		05/81			112SESC	303445	911436		1.83
East Baton Rouge	044	NPC SERVICES	-5220Z	GM-8D	GERAGHTY	49	PLUGGED		05/81			112SESC	303448	911438		1.89
East Baton Rouge	045	NPC SERVICES	-5221Z	P-16	CAPOZZOLI	98	PLUGGED		08/82			112SLBR	303442	911441		1.88
East Baton Rouge	054	EXXON PLASTICS	-5226Z	MW-10	BURMAH	25	MONITOR	4	03/86	6.67	03/20/86	112SESC	303305	911051	D W	2.34
East Baton Rouge	054	EXXON PLASTICS	-5227Z	MW-11	BURMAH	30	MONITOR	4	03/86	4.29	03/20/86	112SESC	303304	911055	D W	2.30
East Baton Rouge	054	EXXON PLASTICS	-5228Z	MW-12	BURMAH	27	PLUGGED	4	03/86	6.21	03/20/86	112SESC	303306	911055	D W	2.28
East Baton Rouge	054	EXXON PLASTICS	-5229Z	MW-13	BURMAH	28	MONITOR	4	03/86	11.13	03/20/86	112SESC	303308	911054	D W	2.27
East Baton Rouge	054	EXXON PLASTICS	-5230Z	MW-14	BURMAH	29	MONITOR	4	03/86	9	03/20/86	112SESC	303310	911051	D W	2.30

East Baton Rouge	054	EXXON PLASTICS	-5231Z	MW-15	BURMAH	10	MONITOR	4	03/86	5.65	03/20/86	112SESC	303312	911051	D W	2.28
East Baton Rouge	058	PAXON POLYMER	-5243Z	MW-1	GERAGHTY	32	PLUGGED	2	04/85			112SESC	303331	911256		0.65
East Baton Rouge	058	PAXON POLYMER	-5278Z	MW-1R	SOILS	37	PLUGGED	2	02/92	16.0	02/20/92	112SESC	303331	911256	D W	0.65
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	1.83
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	1.83
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	1.83
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	1.83
East Baton Rouge	044	NPC SERVICES	-5283Z	W-0516-1	LAYNE (ENV)	92	PLUGGED	4	03/92	20	03/09/92	112SESC	303448	911434	D W	1.83
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	1.83
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	1.83
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	1.83
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	1.83
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	1.85
East Baton Rouge	044	NPC SERVICES	-5289Z	W-0826-1	LAYNE (ENV)	68	PLUGGED	4	10/91	10	10/16/91	112SESC	303452	911433	D W	1.85

East Baton Rouge	044	NPC SERVICES	-5290Z	W-1024-1	LAYNE (ENV)	76	PLUGGED	4	02/92	12	02/09/92	112SESC	303448	911434	D W	1.83
East Baton Rouge	044	NPC SERVICES	-5291Z	W-1119-1	LAYNE (ENV)	73	PLUGGED	4	02/92	12	02/21/92	112SESC	303448	911434	D W	1.83
East Baton Rouge	044	NPC SERVICES	-5292Z	W-1121-1	LAYNE (ENV)	55	PLUGGED	4	02/92	14	02/13/92	112SESC	303448	911434	D W	1.83
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	1.83
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	1.85
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	1.83
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	0.39
East Baton Rouge	033	ROLLINS ENV SER	-5297Z	P-49A	ENCOR	12	PIEZOMETER	2	03/92	2.9	03/27/92	112SESC	303422	911317	D W	0.49
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	1.78
East Baton Rouge	054	EXXON PLASTICS	-5302Z	MW-16	BURMAH	10	MONITOR	4	03/86	5.9	03/11/86	112SESC	303306	911052	D W	2.32
East Baton Rouge	054	EXXON PLASTICS	-5303Z	MW-17	BURMAH	32	PLUGGED	4	03/86	4	03/20/86	112SESC	303307	911049	D W	2.35
East Baton Rouge	054	EXXON PLASTICS	-5304Z	MW-18	BURMAH	28	PLUGGED	4	03/86	3.6	03/20/86	112SESC	303308	911048	D W	2.36
East Baton Rouge	054	EXXON PLASTICS	-5305Z	MW-19	BURMAH	10	PLUGGED	4	03/86	3.71	03/20/86	112SESC	303309	911045	D W	2.39
East Baton Rouge	054	EXXON PLASTICS	-5306Z	MW-20	BURMAH	30	PLUGGED	4	03/86	5.19	03/12/86	112SESC	303309	911044	D W	2.41

East Baton Rouge	054	EXXON PLASTICS	-5307Z	MW-21	BURMAH	10	MONITOR	4	03/86	4.58	03/20/86	112SESC	303309	911033	D W	2.57
East Baton Rouge	054	EXXON PLASTICS	-5308Z	MW-22	BURMAH	10	PLUGGED	4	03/86	4.17	03/20/86	112SESC	303316	911043	D W	2.37
East Baton Rouge	054	EXXON PLASTICS	-5309Z	MW-23	BURMAH	10	MONITOR	4	03/86	4.31	03/20/86	112SESC	303314	911040	D W	2.43
East Baton Rouge	054	EXXON PLASTICS	-5310Z	MW-24	BURMAH	10	MONITOR	4	03/86	4.88	03/20/86	112SESC	303317	911037	D W	2.45
East Baton Rouge	054	EXXON PLASTICS	-5311Z	MW-25	BURMAH	10	MONITOR	4	03/86	3.74	03/20/86	112SESC	303319	911041	D W	2.38
East Baton Rouge	054	EXXON PLASTICS	-5312Z	MW-32	BURMAH	30	MONITOR	4	03/86	8.17	03/20/86	112SESC	303317	911037	D W	2.45
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	1.77
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	1.78
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	1.74
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	1.78
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	1.78
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	1.80
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	1.74
East Baton Rouge	010	USX REALTY	-5399Z	DG-1	WARE LIND	40	MONITOR	2	08/86			112MRVA	303235	911234	D	1.76

East Baton Rouge	010	USX REALTY	-5400Z	DG-2	WARE LIND	40	MONITOR	2	08/86			112MRVA	303234	911235	D	1.77
East Baton Rouge	057	USX REALTY	-5401Z	DG-3	WARE LIND	31	MONITOR	2	08/86			112MRVA	303234	911231	D	1.79
East Baton Rouge	057	USX REALTY	-5402Z	UG-1	WARE LIND	31	MONITOR	2	08/86			112MRVA	303235	911231	D	1.77
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	1.57
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	1.57
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	1.57
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	1.73
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	1.70
East Baton Rouge	044	NPC SERVICES	-5425Z	PBB21-1N10	LAYNE (ENV)	37	PIEZOMETER	2	11/91	9	11/16/91	112SESC	303444	911428	D W	1.70
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	1.83
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	1.83
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	1.83
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	1.83
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	1.83

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	1.83
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	1.84
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	1.84
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	1.77
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	1.77
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	1.77
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	1.78
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	1.77
East Baton Rouge	044	NPC SERVICES	-5439Z	P-1030-4	LAYNE (ENV)	40	PIEZOMETER	2	11/91	16	11/17/91	112SESC	303448	911430	D W	1.77
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	1.82
East Baton Rouge	044	NPC SERVICES	-5441Z	W-0924-1	LAYNE (ENV)	86	PLUGGED	4	01/92	23	01/26/92	112SESC	303451	911435	D W	1.87
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	1.86
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	1.81
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	1.82

East Baton Rouge	048	ROLLINS ENV SER	-5449Z	4CL	ENCOR	126	MONITOR	2	10/92	26.1	10/13/92	112SLBR	303350	911251	D W	0.29
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	2.07
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	2.09
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	2.07
East Baton Rouge	044	REYNOLDS METALS	-5456Z	MW-4	ENVIROCORP	33	MONITOR	4	09/86	22	09/05/86	112SESC	303507	911436	D W	2.04
East Baton Rouge	044	SCHUYLKIL L META	-5470Z	W-4	UNKNOWN	30	PLUGGED		.			112SESC	303512	911443		2.19
East Baton Rouge	044	SCHUYLKIL L META	-5471Z	W-4A	GDC	30	PLUGGED	2	01/87			112SESC	303512	911443	D	2.19
East Baton Rouge	044	SCHUYLKIL L META	-5472Z	W-10A	UNKNOWN	50	PLUGGED		.			112SESC	303513	911436		2.11
East Baton Rouge	044	EXIDE TECHNOLO G	-5473Z	MW-14	GDC	60	PLUGGED	2	01/87			112SESC	303515	911434	D	2.11
East Baton Rouge	044	EXIDE TECHNOLO G	-5474Z	MW-15	GDC	46	PLUGGED	2	01/87			112SESC	303514	911436	D	2.12
East Baton Rouge	044	MACDAVIS, GEO	-5480Z		ECONOMY	250	DOMESTIC	2	09/86	40	09/17/86	11204BR	303521	911259	D W	1.46
East Baton Rouge	084	DAVIS, DUMAS	-5487Z		ECONOMY	230	DOMESTIC	2	09/86	40	09/26/86	11204BR	303551	911323	D W	2.08
East Baton Rouge	084	CELERON OIL-GAS	-5498Z	CRUMHO LT 2	GUICHARD	241	RIG SUPPLY	4	03/87	100	03/12/87	11204BR	303550	911243	D W	2.02
East Baton Rouge	044	NPC SERVICES	-5511Z	BL-1B	UNKNOWN	56	PLUGGED		.			112SESC	303458	911435		1.93

East Baton Rouge	044	NPC SERVICES	-5512Z	BM-1D	UNKNOWN	44	PLUGGED		.			112SESC	303452	911440		1.95
East Baton Rouge	044	NPC SERVICES	-5513Z	BM-1S	UNKNOWN	21	PLUGGED		.			112SESC	303452	911440		1.95
East Baton Rouge	044	NPC SERVICES	-5514Z	BM-2D	UNKNOWN	55	PLUGGED		.			112SESC	303455	911446		2.06
East Baton Rouge	044	NPC SERVICES	-5515Z	BM-2S	UNKNOWN	21	PLUGGED		.			112SESC	303455	911446		2.06
East Baton Rouge	044	NPC SERVICES	-5516Z	BM-3S	UNKNOWN	30	PLUGGED		.			112SESC	303443	911426		1.67
East Baton Rouge	044	NPC SERVICES	-5517Z	BTW-1A	UNKNOWN	37	PLUGGED		.			112SESC	303444	911427		1.69
East Baton Rouge	044	NPC SERVICES	-5518Z	BTW-2	UNKNOWN	88	PLUGGED		.			112SESC	303452	911438		1.92
East Baton Rouge	044	NPC SERVICES	-5519Z	GM-1D	UNKNOWN	109	PLUGGED		.			112SLBR	303503	911441		2.07
East Baton Rouge	044	NPC SERVICES	-5520Z	GM-1S	UNKNOWN	72	PLUGGED		.			112SESC	303503	911441		2.07
East Baton Rouge	044	NPC SERVICES	-5521Z	GM-2D	UNKNOWN	121	PLUGGED		.			112SLBR	303455	911430		1.83
East Baton Rouge	044	NPC SERVICES	-5522Z	GM-2S	UNKNOWN	68	PLUGGED		.			112SESC	303455	911430		1.83
East Baton Rouge	044	NPC SERVICES	-5523Z	GM-1R	UNKNOWN	30	PLUGGED		.			112SESC	303526	911306		1.56
East Baton Rouge	044	NPC SERVICES	-5524Z	GM-4	UNKNOWN	20	PLUGGED		.			112SESC	303517	911308		1.39
East Baton Rouge	044	NPC SERVICES	-5525Z	GM-4D	UNKNOWN	82	PLUGGED		.			112SESC	303446	911426		1.69

East Baton Rouge	044	NPC SERVICES	-5526Z	GM-6	UNKNOWN	19	PLUGGED		.			112SESC	303520	911312		1.46
East Baton Rouge	044	NPC SERVICES	-5527Z	GM-7	UNKNOWN	24	PLUGGED		.			112SESC	303521	911312		1.48
East Baton Rouge	044	NPC SERVICES	-5528Z	GM-7R	UNKNOWN	56	PLUGGED		.			112SESC	303450	911436		1.87
East Baton Rouge	044	NPC SERVICES	-5529Z	GM-8DR	UNKNOWN	53	PLUGGED		.			112SESC	303452	911438		1.92
East Baton Rouge	044	NPC SERVICES	-5530Z	GM-8S	UNKNOWN	18	PLUGGED		.			112SESC	303516	911308		1.38
East Baton Rouge	044	NPC SERVICES	-5531Z	GM-9	UNKNOWN	27	PLUGGED		.			112SESC	303456	911445		2.06
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		1.78
East Baton Rouge	044	NPC SERVICES	-5535Z	P-14	UNKNOWN	105	PLUGGED		.			112SLBR	303445	911425		1.67
East Baton Rouge	044	NPC SERVICES	-5536Z	P-17	UNKNOWN	78	PLUGGED		.			112SESC	303451	911428		1.77
East Baton Rouge	044	NPC SERVICES	-5537Z	P-18	UNKNOWN	97	PLUGGED		.			112SESC	303445	911421		1.61
East Baton Rouge	044	NPC SERVICES	-5538Z	SB-1A	UNKNOWN	27	PLUGGED		.			112SESC	303511	911432		2.04
East Baton Rouge	044	NPC SERVICES	-5539Z	SB-1B	UNKNOWN	30	PLUGGED		.			112SESC	303513	911432		2.06

East Baton Rouge	044	NPC SERVICES	-5540Z	SB-2A	UNKNOWN	28	PLUGGED		.			112SESC	303518	911422		2.00
East Baton Rouge	044	NPC SERVICES	-5541Z	SB-3A	UNKNOWN	28	PLUGGED		.			112SESC	303517	911417		1.93
East Baton Rouge	044	NPC SERVICES	-5542Z	SM-2S	UNKNOWN	18	PLUGGED		.			112SESC	303521	911312		1.48
East Baton Rouge	044	NPC SERVICES	-5543Z	SM-3S	UNKNOWN	17	PLUGGED		.			112SESC	303516	911307		1.37
East Baton Rouge	044	NPC SERVICES	-5544Z	SH-1	UNKNOWN	38	PLUGGED		.			112SESC	303521	911305		1.46
East Baton Rouge	044	NPC SERVICES	-5545Z	SH-2	UNKNOWN	32	PLUGGED		.			112SESC	303521	911311		1.48
East Baton Rouge	044	NPC SERVICES	-5546Z	STW-1	UNKNOWN	29	PLUGGED		.			112SESC	303521	911311		1.48
East Baton Rouge	044	NPC SERVICES	-5547Z	VB-6A	UNKNOWN	25	PLUGGED		.			112SESC	303513	911414		1.84
East Baton Rouge	044	NPC SERVICES	-5548Z	VB-19A	UNKNOWN	28	PLUGGED		.			112SESC	303519	911417		1.96
East Baton Rouge	044	NPC SERVICES	-5549Z	GM-8D	UNKNOWN	94	PLUGGED		.			112SESC	303516	911308		1.38
East Baton Rouge	044	NPC SERVICES	-5550Z	SDG-2	UNKNOWN	116	PLUGGED		.			112SLBR	303521	911313		1.48
East Baton Rouge	057	USX REALTY	-5559Z	2D	FOSTER (DAN)	82	PLUGGED		08/81			112SLBR	303313	911231		1.07
East Baton Rouge	057	USX REALTY	-5560Z	1S	FOSTER (DAN)	39	PLUGGED		08/81			112SESC	303310	911238		1.09
East Baton Rouge	048	ROLLINS ENV SER	-5561Z	CP-1	CAPOZZOLI	50	PLUGGED		11/83			112SLBR	303411	911235		0.35

East Baton Rouge	048	ROLLINS ENV SER	-5562Z	CP-2	CAPOZZOLI	45	PLUGGED		11/83			112SESC	303410	911240		0.26
East Baton Rouge	048	ROLLINS ENV SER	-5563Z	CP-3	CAPOZZOLI	50	PLUGGED		12/83			112SLBR	303415	911242		0.29
East Baton Rouge	048	ROLLINS ENV SER	-5564Z	CP-4	CAPOZZOLI	50	PLUGGED		11/83			112SLBR	303415	911235		0.38
East Baton Rouge	054	EXXON PLASTICS	-5565Z	MW-22B	SOIL TESTING	10	MONITOR	4	07/87			112SESC	303321	911039	D	2.39
East Baton Rouge	054	EXXON PLASTICS	-5566Z	MW-26	SOIL TESTING	10	MONITOR	4	07/87			112SESC	303323	911049	D	2.23
East Baton Rouge	054	EXXON PLASTICS	-5567Z	MW-27	SOIL TESTING	10	MONITOR	4	07/87			112SESC	303325	911047	D	2.24
East Baton Rouge	054	EXXON PLASTICS	-5568Z	MW-28	SOIL TESTING	32	MONITOR	4	07/87			112SESC	303323	911046	D	2.27
East Baton Rouge	054	EXXON PLASTICS	-5569Z	MW-29	SOIL TESTING	10	MONITOR	4	07/87			112SESC	303339	911039	D	2.30
East Baton Rouge	054	EXXON PLASTICS	-5571Z	MW-30	SOIL TESTING	42	MONITOR	4	07/87			112SESC	303330	911032	D	2.45
East Baton Rouge	054	EXXON PLASTICS	-5572Z	MW-31	SOIL TESTING	10	MONITOR	4	07/87			112SESC	303329	911032	D	2.45
East Baton Rouge	054	EXXON PLASTICS	-5573Z	MW-33	SOIL TESTING	10	MONITOR	4	07/87			112SESC	303321	911032	D	2.50
East Baton Rouge	069	EXXON PLASTICS	-5574Z	MW-34	SOIL TESTING	10	MONITOR	4	07/87			112SESC	303302	911037	D	2.57
East Baton Rouge	069	EXXON PLASTICS	-5575Z	MW-35	SOIL TESTING	37	MONITOR	4	07/87			112SESC	303302	911038	D	2.56
East Baton Rouge	069	EXXON PLASTICS	-5576Z	MW-36	SOIL TESTING	10	MONITOR	4	07/87			112SESC	303304	911045	D	2.44

East Baton Rouge	069	EXXON PLASTICS	-5577Z	MW-37	SOIL TESTING	32	MONITOR	4	07/87			112SESC	303304	911045	D	2.44
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	0.54
East Baton Rouge	044	NPC SERVICES	-5601Z		STAMM-SCHEELE	270	PLUGGED	4	05/87	30	05/12/87	11204BR	303455	911417	D W	1.66
East Baton Rouge	057	USS CHEMICALS	-5602Z	OW-1	UNKNOWN	65	PLUGGED		.			112SLBR	303321	911226		0.97
East Baton Rouge	057	USS CHEMICALS	-5603Z	OW-2	UNKNOWN	65	PLUGGED		.			112SLBR	303325	911229		0.88
East Baton Rouge	057	USS CHEMICALS	-5604Z	OW-3	UNKNOWN	65	PLUGGED		.			112SLBR	303325	911236		0.83
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	1.93
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	2.00
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	1.83
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	1.79
East Baton Rouge	047	ROLLINS ENV SER	-5634Z	P-29	PSI/NATIONAL	28	PLUGGED		04/85			112SESC	303416	911307		0.29
East Baton Rouge	085	TRITON TURNKEY	-5642Z	JEAN 1	GUICHARD	241	PLUGGED	4	02/88	45	02/04/88	11204BR	303541	911246	D W	1.84
East Baton Rouge	044	REYNOLDS METALS	-5655Z	R-5	ENVIROCORP	28	MONITOR	4	01/88			112SESC	303512	911444	D	2.21
East Baton Rouge	058	ALLIED SIGNAL	-5656Z	MW-4	GERAGHTY	27	PLUGGED		04/85			112SESC	303329	911255		0.69

East Baton Rouge	048	ALLIED SIGNAL	-5657Z	LM-1	GERAGHTY	124	MONITOR	4	12/87	28.03	12/22/87	112SLBR	303343	911253	D W	0.42
East Baton Rouge	048	ALLIED SIGNAL	-5658Z	LM-2	GERAGHTY	126	MONITOR	4	12/87	41.57	12/22/87	112SLBR	303340	911258	D W	0.48
East Baton Rouge	058	ALLIED SIGNAL	-5659Z	MW-6	GERAGHTY	80	MONITOR	4	12/87			112SLBR	303329	911255	D	0.69
East Baton Rouge	048	ALLIED SIGNAL	-5660Z	SM-9	GERAGHTY	45	MONITOR	4	12/87	25.96	12/22/87	112SESC	303344	911248	D W	0.42
East Baton Rouge	048	ALLIED SIGNAL	-5661Z	SM-10	GERAGHTY	32	MONITOR	4	12/87	9.69	12/22/87	112SESC	303350	911218	D W	0.67
East Baton Rouge	048	ROLLINS ENV SER	-5674Z	AT-1	WARE LIND	78	MONITOR	2	04/88	33.5	04/22/88	112SLBR	303343	911302	D W	0.44
East Baton Rouge	048	ROLLINS ENV SER	-5675Z	AT-3	WARE LIND	82	MONITOR	2	04/88	31.1	04/25/88	112SLBR	303343	911259	D W	0.43
East Baton Rouge	048	ROLLINS ENV SER	-5688Z	AT-2	WARE LIND	114	MONITOR	2	05/88	31.48	05/16/88	112SLBR	303343	911302	D W	0.44
East Baton Rouge	048	ROLLINS ENV SER	-5689Z	AT-4	WARE LIND	108	MONITOR	2	05/88	29.15	05/13/88	112SLBR	303343	911259	D W	0.43
East Baton Rouge	048	ROLLINS ENV SER	-5690Z	AT-5	WARE LIND	78	PIEZOMETER	2	05/88	29.8	05/12/88	112SLBR	303352	911301	D W	0.27
East Baton Rouge	048	ROLLINS ENV SER	-5691Z	AT-6	WARE LIND	120	PIEZOMETER	2	05/88	26.23	05/12/88	112SLBR	303352	911301	D W	0.27
East Baton Rouge	068	BATON ROUGE, LA	-5716Z	1	LAYNE (LA)	76	PLUGGED	4	04/88	19	04/20/88	112SESC	303300	911200	D W	1.54
East Baton Rouge	068	BATON ROUGE, LA	-5717Z	2	LAYNE (LA)	62	PLUGGED	4	04/88	22	04/06/88	112SESC	303252	911159	D W	1.67
East Baton Rouge	068	BATON ROUGE, LA	-5718Z	3	LAYNE (LA)	85	PLUGGED	4	05/88	24	05/02/88	112SESC	303250	911155	D W	1.74

East Baton Rouge	068	BATON ROUGE, LA	-5719Z	4	LAYNE (LA)	55	PLUGGED	4	05/88	25	05/13/88	112SESC	303245	911150	D W	1.87
East Baton Rouge	068	BATON ROUGE, LA	-5720Z	5	LAYNE (LA)	52	PLUGGED	4	05/88	36.5	05/16/88	112SESC	303243	911152	D W	1.88
East Baton Rouge	068	BATON ROUGE, LA	-5721Z	6	LAYNE (LA)	32	PLUGGED	4	03/88	24	03/22/88	112SESC	303242	911157	D W	1.85
East Baton Rouge	068	BATON ROUGE, LA	-5722Z	7	LAYNE (LA)	39	PLUGGED	4	04/88	18	03/28/88	112SESC	303242	911201	D W	1.82
East Baton Rouge	068	BATON ROUGE, LA	-5723Z	8	LAYNE (LA)	50	PLUGGED	4	04/88	9	04/26/88	112SESC	303243	911202	D W	1.80
East Baton Rouge	068	BATON ROUGE, LA	-5724Z	9	LAYNE (LA)	73	PLUGGED	4	04/88	15	04/28/88	112SESC	303245	911207	D W	1.72
East Baton Rouge	068	BATON ROUGE, LA	-5725Z	10	LAYNE (LA)	63	PLUGGED	4	05/88	24	05/09/88	112SESC	303246	911209	D W	1.69
East Baton Rouge	056	DELTECH CORP	-5751Z	MW-1	GDC	43	MONITOR	4	07/88	21	08/02/88	112SESC	303306	911222	D W	1.25
East Baton Rouge	056	DELTECH CORP	-5752Z	MW-2	GDC	40	MONITOR	4	07/88	20.3	08/02/88	112SESC	303308	911222	D W	1.22
East Baton Rouge	.	DELTECH CORP	-5753Z	MW-3	GULF DRILLING	48	PLUGGED	4	07/88	21.3	08/02/88	112MRVAC	303308	911222	D W	1.22
East Baton Rouge	057	DELTECH CORP	-5754Z	MW-4	GDC	46	MONITOR	4	07/88	23.5	08/02/88	112SESC	303308	911240	D W	1.12
East Baton Rouge	048	ALLIED SIGNAL	-5755Z	CP-2	UNKNOWN	30	PLUGGED	2	.			112SESC	303320	911237		0.91
East Baton Rouge	048	ALLIED SIGNAL	-5756Z	CP-3	UNKNOWN	30	PLUGGED	2	.			112SESC	303319	911235		0.94
East Baton Rouge	048	ALLIED SIGNAL	-5757Z	CP-4	UNKNOWN	30	PLUGGED	2	.			112SESC	303321	911236		0.90

East Baton Rouge	048	ALLIED SIGNAL	-5758Z	CP-5	UNKNOWN	30	PLUGGED	2	.			112SESC	303322	911234		0.89
East Baton Rouge	.	DELTECH CORP	-5784Z	MW-5	GULF DRILLING	80	MONITOR	4	09/88	17	09/22/88	112MRVA C	303310	911248	D W	1.06
East Baton Rouge	.	DELTECH CORP	-5785Z	MW-6	GULF DRILLING	23	MONITOR	4	09/88	15	09/22/88	112MRVA C	303310	911249	D W	1.06
East Baton Rouge	.	DELTECH CORP	-5786Z	MW-7	GULF DRILLING	54	MONITOR	4	09/88	3.75	09/22/88	112MRVA C	303340	911210	D W	0.88
East Baton Rouge	.	DELTECH CORP	-5787Z	MW-8	GULF DRILLING	26	MONITOR	4	09/88	3.5	09/22/88	112MRVA C	303339	911209	D W	0.91
East Baton Rouge	.	DELTECH CORP	-5788Z	MW-9	GULF DRILLING	70	MONITOR	4	09/88	10	09/22/88	112MRVA C	303306	911226	D W	1.23
East Baton Rouge	.	DELTECH CORP	-5789Z	MW-10	GDC	28	MONITOR	4	09/88	11	09/22/88	112MRVA C	303306	911226	D W	1.23
East Baton Rouge	.	DELTECH CORP	-5790Z	MW-11	GDC	65	MONITOR	4	09/88	4	09/22/88	112MRVA C	303326	911217	D W	0.97
East Baton Rouge	.	DELTECH CORP	-5791Z	MW-12	GDC	23	MONITOR	4	09/88	3.5	09/22/88	112MRVA C	303325	911216	D W	1.00
East Baton Rouge	044	NPC SERVICES	-5825Z	W-0830-2	LEE, PETER B.	63	PLUGGED	6	04/92	15.38	05/19/25	112SESC	303449	911429	D W	1.76
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	1.72
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	1.72
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	1.72
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	1.71

East Baton Rouge	044	NPC SERVICES	-5830Z	W-0931-2	LEE, PETER B.	53	PLUGGED	6	04/92	17.6	06/15/92	112SESC	303448	911429	D W	1.75
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	0.79
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	0.71
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	0.78
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	0.75
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	0.77
East Baton Rouge	044	GROW GROUP INC	-5849Z	MW-6	FUGRO (GS)	25	PLUGGED	4	03/92	16.5	03/30/92	112SESC	303445	911256	D W	0.77
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	0.73
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	0.77
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	0.78
East Baton Rouge	048	PAXON POLYMER	-5874Z	AT-18	ENCOR	62	MONITOR	2	05/92	24.67	06/11/92	112SLBR	303349	911246	D W	0.34
East Baton Rouge	048	PAXON POLYMER	-5875Z	AT-19	ENCOR	50	MONITOR	2	06/92	25.03	06/16/92	112SLBR	303347	911248	D W	0.36
East Baton Rouge	048	PAXON POLYMER	-5876Z	AT-20	ENCOR	51	MONITOR	2	05/92	27.62	06/10/92	112SESC	303348	911251	D W	0.33
East Baton Rouge	048	ROLLINS ENV SER	-5877Z	I-7	ENCOR	44	RECOVERY	6	06/92	28.3	06/15/92	112SESC	303350	911249	D W	0.30

East Baton Rouge	048	ROLLINS ENV SER	-5878Z	I-8	ENCOR	54	RECOVERY	6	06/92	22.49	06/15/92	112SESC	303350	911248	D W	0.31
East Baton Rouge	048	ROLLINS ENV SER	-5879Z	I-9	ENCOR	63	RECOVERY	6	05/92	20.11	06/15/92	112SESC	303350	911247	D W	0.32
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	1.77
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	1.77
East Baton Rouge	044	NPC SERVICES	-5882Z	W-0730-3	LEE, PETER B.	68	PLUGGED	6	05/92	13.76	06/15/92	112SESC	303450	911429	D W	1.77
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	1.75
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	1.75
East Baton Rouge	044	NPC SERVICES	-5885Z	W-0829-3	LEE, PETER B.	80	PLUGGED	6	06/92	16.0	06/17/92	112SESC	303449	911430	D W	1.78
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	1.77
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	1.75
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	1.74
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	1.74
East Baton Rouge	044	NPC SERVICES	-5890Z	W-0931-3	LEE, PETER B.	53	PLUGGED	6	06/92	22.28	06/15/92	112SESC	303448	911429	D W	1.75
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	1.73

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	1.72
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	1.56
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	1.90
East Baton Rouge	044	NPC SERVICES	-5927Z	W-0829-1	LEE, PETER B.	78	PLUGGED	6	07/92	12	08/19/92	112SESC	303449	911430	D W	1.78
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	1.74
East Baton Rouge	044	NPC SERVICES	-5929Z	W-0929-2	LEE, PETER B.	78	PLUGGED	6	06/92	18	08/19/92	112SESC	303449	911430	D W	1.78
East Baton Rouge	044	NPC SERVICES	-5930Z	W-0930-2	LEE, PETER B.	82	PLUGGED	6	06/92	16	08/19/92	112SESC	303449	911430	D W	1.78
East Baton Rouge	044	NPC SERVICES	-5931Z	W-1029-2	LEE, PETER B.	68	PLUGGED	6	07/92	33	08/19/92	112SESC	303448	911431	D W	1.78
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	1.78
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	1.47
East Baton Rouge	048	ROLLINS ENV SER	-5935Z	MW-21A	WARE LIND	66	MONITOR	4	11/88			112SESC	303409	911304	D	0.17
East Baton Rouge	048	ROLLINS ENV SER	-5936Z	MW-21B	WARE LIND	82	MONITOR	2	11/88			112SLBR	303409	911304	D	0.17
East Baton Rouge	048	ROLLINS ENV SER	-6050Z	MW-5AR	WARE LIND	30	MONITOR	2	01/89	12.6	01/12/89	112SESC	303355	911251	D W	0.20
East Baton Rouge	048	ROLLINS ENV SER	-6051Z	MW-24A	WARE LIND	38	MONITOR	2	01/89	23.6	01/11/89	112SESC	303351	911251	D W	0.28

East Baton Rouge	048	ROLLINS ENV SER	-6052Z	MW-26A	WARE LIND	48	MONITOR	2	01/89	14.3	01/19/89	112SLBR	303412	911248	D W	0.18
East Baton Rouge	048	ROLLINS ENV SER	-6073Z	MW-6BR	WARE LIND	70	MONITOR	2	01/89	16.5	01/26/89	112SESC	303402	911254	D W	0.06
East Baton Rouge	048	ROLLINS ENV SER	-6074Z	MW13AR	WARE LIND	38	MONITOR	2	01/89	27	02/06/89	112SESC	303359	911304	D W	0.19
East Baton Rouge	048	ROLLINS ENV SER	-6075Z	MW-23A	WARE LIND	38	MONITOR	2	02/89	19.3	02/10/89	112SESC	303348	911247	D W	0.35
East Baton Rouge	048	ROLLINS ENV SER	-6076Z	MW-27A	WARE LIND	43	MONITOR	2	02/89	17.6	02/06/89	112SESC	303407	911252	D W	0.06
East Baton Rouge	048	ROLLINS ENV SER	-6086Z	AT-7	WARE LIND	81	MONITOR	4	02/89	30.06	02/27/89	112SLBR	303343	911259	D W	0.43
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	0.31
East Baton Rouge	048	ROLLINS ENV SER	-6088Z	MW-28A	WARE LIND	40	MONITOR	4	02/89	16.18	02/27/89	112SESC	303409	911251	D W	0.10
East Baton Rouge	048	ROLLINS ENV SER	-6089Z	MW28B1	WARE LIND	66	MONITOR	2	02/89	16.56	02/27/89	112SESC	303409	911251	D W	0.10
East Baton Rouge	048	ROLLINS ENV SER	-6090Z	MW-29A	WARE LIND	51	MONITOR	4	02/89	16.63	02/27/89	112SLBR	303410	911250	D W	0.13
East Baton Rouge	048	ROLLINS ENV SER	-6131Z	5B-1	WARE LIND	58	MONITOR	2	03/89	16.9	03/17/89	112SESC	303355	911252	D W	0.20
East Baton Rouge	048	ROLLINS ENV SER	-6132Z	5B-2	WARE LIND	94	MONITOR	2	02/89	21.1	03/13/89	112SLBR	303355	911251	D W	0.20
East Baton Rouge	048	ROLLINS ENV SER	-6133Z	5C	WARE LIND	130	MONITOR	2	04/89	19.6	04/07/89	112SLBR	303355	911251	D W	0.20
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	0.31

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	0.19
East Baton Rouge	048	ROLLINS ENV SER	-6136Z	23B-1	WARE LIND	62	MONITOR	2	03/89	19.6	03/17/89	112SESC	303348	911247	D W	0.35
East Baton Rouge	048	ROLLINS ENV SER	-6137Z	24B-2	WARE LIND	82	MONITOR	2	03/89	19.6	03/15/89	112SLBR	303351	911251	D W	0.28
East Baton Rouge	048	ROLLINS ENV SER	-6138Z	6B-2	WARE LIND	94	MONITOR	2	04/89	59.2	04/28/89	112SLBR	303402	911254	D W	0.06
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	0.31
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	0.19
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	0.19
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	0.19
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	0.19
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	0.04
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	0.04
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	0.25
East Baton Rouge	048	ROLLINS ENV SER	-6186Z	6C	WARE LIND	120	MONITOR	2	05/89	15	05/12/89	112SLBR	303402	911254	D W	0.06
East Baton Rouge	048	ROLLINS ENV SER	-6191Z	9B-1	WARE LIND	74	MONITOR	2	06/89			112SESC	303407	911310	D	0.25

East Baton Rouge	056	DELTECH CORP	-6210Z	BU-1	GULF DRILLING	16	MONITOR	4	06/89	2.83	06/06/89	112SESC	303315	911210	D W	1.21
East Baton Rouge	056	DELTECH CORP	-6211Z	BU-2	GDC	16	MONITOR	4	06/89	3.67	06/06/89	112SESC	303315	911208	D W	1.23
East Baton Rouge	056	DELTECH CORP	-6212Z	BU-3	GULF DRILLING	16	MONITOR	4	06/89	3.17	06/06/89	112SESC	303316	911205	D W	1.25
East Baton Rouge	056	DELTECH CORP	-6213Z	BU-4	GULF DRILLING	16	MONITOR	4	06/89	1.67	06/06/89	112SESC	303312	911210	D W	1.26
East Baton Rouge	056	DELTECH CORP	-6214Z	BU-5	GULF DRILLING	15	MONITOR	4	06/89	1.33	06/06/89	112SESC	303315	911203	D W	1.28
East Baton Rouge	056	DELTECH CORP	-6215Z	BU-7	GULF DRILLING	15	MONITOR	4	06/89	3	06/06/89	112SESC	303312	911206	D W	1.30
East Baton Rouge	056	DELTECH CORP	-6216Z	BU-8	GULF DRILLING	16	MONITOR	4	06/89	2.92	06/06/89	112SESC	303312	911204	D W	1.32
East Baton Rouge	057	USX REALTY	-6253Z	DG-3	UNKNOWN	33	PLUGGED	2	1985			112SESC	303312	911233		1.08
East Baton Rouge	057	USX REALTY	-6254Z	DG-2	UNKNOWN	43	PLUGGED	2	1985			112SESC	303312	911235		1.07
East Baton Rouge	057	USX REALTY	-6255Z	DG-1	UNKNOWN	42	PLUGGED	2	1985			112SESC	303313	911235		1.05
East Baton Rouge	057	USX REALTY	-6256Z	UG-1	UNKNOWN	34	PLUGGED	2	1985			112SESC	303314	911232		1.05
East Baton Rouge	048	ROLLINS ENV SER	-6261Z	AT-9	WARE LIND	78	MONITOR	2	09/89			112SESC	303348	911258	D	0.33
East Baton Rouge	048	ROLLINS ENV SER	-6262Z	AT-11	WARE LIND	82	MONITOR	2	09/89			112SLBR	303343	911303	D	0.44
East Baton Rouge	047	ROLLINS ENV SER	-6263Z	10A-W	WARE LIND	28	MONITOR	2	09/89			112SESC	303412	911310	D	0.28

East Baton Rouge	048	ROLLINS ENV SER	-6294Z	R-1	WARE LIND	83	PIEZOMETER	6	09/89			112SLBR	303346	911253	D	0.37
East Baton Rouge	048	ROLLINS ENV SER	-6295Z	R-2	WARE LIND	86	RECOVERY	6	10/89	29.1	10/16/89	112SLBR	303344	911256	D W	0.40
East Baton Rouge	048	ROLLINS ENV SER	-6296Z	R-3	WARE LIND	87	RECOVERY	6	10/89	34.1	10/13/89	112SLBR	303343	911259	D W	0.43
East Baton Rouge	048	ROLLINS ENV SER	-6297Z	I-6	WARE LIND	84	OTHER	6	10/89	20.9	10/18/89	112SLBR	303351	911251	D W	0.28
East Baton Rouge	048	ROLLINS ENV SER	-6298Z	AT-10	WARE LIND	85	MONITOR	2	10/89	30.3	10/18/89	112SLBR	303345	911301	D W	0.40
East Baton Rouge	048	ROLLINS ENV SER	-6299Z	AT-13	WARE LIND	81	MONITOR	2	10/89	44.5	10/23/89	112SLBR	303339	911302	D W	0.51
East Baton Rouge	048	ROLLINS ENV SER	-6300Z	31B-2	WARE LIND	80	MONITOR	4	09/89	23.7	10/04/89	112SLBR	303347	911253	D W	0.35
East Baton Rouge	048	ROLLINS ENV SER	-6301Z	32B-2	WARE LIND	85	MONITOR	2	09/89	21.1	10/05/89	112SLBR	303352	911250	D W	0.26
East Baton Rouge	056	DELTECH CORP	-6310Z	BU-6	GULF DRILLING	21	MONITOR	4	10/89	4.5	10/21/89	112SESC	303312	911209	D W	1.27
East Baton Rouge	056	DELTECH CORP	-6311Z	MW-3A	GDC	48	MONITOR	4	10/89			112SESC	303301	911223	D	1.33
East Baton Rouge	056	DELTECH CORP	-6312Z	MW_13	GDC	33	MONITOR	4	10/89	3	10/15/89	112SESC	303310	911204	D W	1.35
East Baton Rouge	056	DELTECH CORP	-6313Z	MW_14	GDC	28	MONITOR	4	10/89	3.5	10/15/89	112SESC	303331	911212	D W	0.96
East Baton Rouge	056	DELTECH CORP	-6314Z	MW_15	GDC	32	MONITOR	4	10/89	4	10/16/89	112SESC	303331	911216	D W	0.91
East Baton Rouge	056	DELTECH CORP	-6315Z	MW_16	GDC	28	MONITOR	4	10/89	3.5	10/16/89	112SESC	303309	911216	D W	1.25

East Baton Rouge	056	DELTECH CORP	-6316Z	MW_17	GDC	38	MONITOR	4	10/89	6.5	10/16/89	112SESC	303309	911209	D W	1.31
East Baton Rouge	056	DELTECH CORP	-6317Z	MW_18	GDC	38	MONITOR	4	10/89	3.5	10/17/89	112SESC	303308	911205	D W	1.37
East Baton Rouge	056	DELTECH CORP	-6318Z	MW_19	GDC	32	MONITOR	4	10/89	3.5	10/16/89	112SESC	303307	911215	D W	1.29
East Baton Rouge	056	DELTECH CORP	-6319Z	MW_20	GDC	28	MONITOR	4	10/89	4	10/16/89	112SESC	303305	911207	D W	1.39
East Baton Rouge	056	DELTECH CORP	-6320Z	MW_21	GDC	32	MONITOR	4	10/89	2.5	10/17/89	112SESC	303304	911211	D W	1.37
East Baton Rouge	056	DELTECH CORP	-6321Z	MW_22	GDC	38	MONITOR	4	10/89	7.5	10/17/89	112SESC	303304	911215	D W	1.34
East Baton Rouge	056	DELTECH CORP	-6322Z	RW-1	GULF DRILLING	27	RECOVERY	6	10/89	3	10/10/89	112SESC	303310	911215	D W	1.24
East Baton Rouge	056	DELTECH CORP	-6323Z	RW-2	GULF DRILLING	38	RECOVERY	6	10/89	5	10/13/89	112SESC	303310	911209	D W	1.30
East Baton Rouge	056	DELTECH CORP	-6324Z	RW-3	GULF DRILLING	38	RECOVERY	6	10/89	6	10/13/89	112SESC	303310	911210	D W	1.29
East Baton Rouge	056	DELTECH CORP	-6325Z	RW-4	GULF DRILLING	28	RECOVERY	6	10/89	4	10/13/89	112SESC	303309	911213	D W	1.28
East Baton Rouge	056	DELTECH CORP	-6326Z	RW-5	GULF DRILLING	32	RECOVERY	6	10/89	4	10/14/89	112SESC	303308	911210	D W	1.32
East Baton Rouge	056	DELTECH CORP	-6327Z	RW-6	GULF DRILLING	38	RECOVERY	6	10/89	2	10/14/89	112SESC	303305	911213	D W	1.34
East Baton Rouge	056	DELTECH CORP	-6328Z	RW-7	GULF DRILLING	28	RECOVERY	6	10/89	1	10/14/89	112SESC	303304	911214	D W	1.35
East Baton Rouge	048	ROLLINS ENV SER	-6337Z	R-1B	WARE LIND	87	RECOVERY	6	10/89	23.5	11/09/89	112SLBR	303346	911253	D W	0.37

East Baton Rouge	044	NPC SERVICES	-6358Z	P-15	UNKNOWN	50	PLUGGED	6					112SESC	303451	911428		1.77
East Baton Rouge	048	ROLLINS ENV SER	-6367Z	AT-8	WARE LIND	75	MONITOR	4	12/89				112SESC	303341	911303	D	0.48
East Baton Rouge	048	ROLLINS ENV SER	-6368Z	AT-12	WARE LIND	82	PLUGGED	2	12/89				112SLBR	303340	911304	D	0.50
East Baton Rouge	048	ROLLINS ENV SER	-6369Z	R-1C	WARE LIND	92	RECOVERY	6	12/89				112SLBR	303346	911253	D	0.37
East Baton Rouge	048	ROLLINS ENV SER	-6427Z	32A	WARE LIND	27	MONITOR	2	03/90	23.3	04/12/90		112SESC	303352	911250	D W	0.26
East Baton Rouge	048	ROLLINS ENV SER	-6428Z	32B-1	WARE LIND	64	MONITOR	2	03/90	28.9	04/12/90		112SESC	303352	911250	D W	0.26
East Baton Rouge	048	ROLLINS ENV SER	-6429Z	34A	WARE LIND	38	MONITOR	2	04/90	14.1	05/04/90		112SESC	303401	911251	D W	0.10
East Baton Rouge	048	ROLLINS ENV SER	-6430Z	34B-1	WARE LIND	66	MONITOR	2	04/90	16.66	05/04/90		112SESC	303401	911251	D W	0.10
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	0.08
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	0.36
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	0.36
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	0.29
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	0.29
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	0.29

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	0.31
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	0.31
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	0.31
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	0.28
East Baton Rouge	048	ROLLINS ENV SER	-6446Z	33A	WARE LIND	32	MONITOR	2	05/90	13.1	05/14/90	112SESC	303358	911251	D W	0.15
East Baton Rouge	048	ROLLINS ENV SER	-6447Z	33B-1	WARE LIND	53	MONITOR	2	05/90	16.5	05/14/90	112SESC	303358	911251	D W	0.15
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	0.08
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	0.31
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	0.25
East Baton Rouge	048	ROLLINS ENV SER	-6451Z	40B-2	WARE LIND	86	MONITOR	2	05/90	22.5	05/14/90	112SLBR	303417	911301	D W	0.25
East Baton Rouge	044	NPC SERVICES	-6452Z	BRW-4R	SOIL TESTING	35	PLUGGED	4	05/88			112SESC	303452	911435	D	1.88
East Baton Rouge	044	NPC SERVICES	-6453Z	BRW-9R	SOIL TESTING	62	PLUGGED	4	05/88			112SESC	303451	911436	D	1.88
East Baton Rouge	044	NPC SERVICES	-6454Z	BRW-11	SOIL TESTING	57	PLUGGED	4	05/88			112SESC	303452	911435	D	1.88
East Baton Rouge	044	NPC SERVICES	-6455Z	BRW-12	SOIL TESTING	44	PLUGGED	4	05/88			112SESC	303452	911435	D	1.88

East Baton Rouge	044	NPC SERVICES	-6456Z	BRW-13	SOIL TESTING	35	PLUGGED	4	05/88			112SESC	303452	911435	D	1.88
East Baton Rouge	044	NPC SERVICES	-6457Z	BRW-15	SOIL TESTING	52	PLUGGED	4	05/88			112SESC	303451	911438	D	1.91
East Baton Rouge	044	NPC SERVICES	-6458Z	RP-1	SOIL TESTING	45	PLUGGED	2	05/88			112SESC	303452	911435	D	1.88
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	0.28
East Baton Rouge	048	ROLLINS ENV SER	-6463Z	33B-2	WARE LIND	90	MONITOR	2	05/90	27.4	06/06/90	112SLBR	303358	911251	D W	0.15
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	0.08
East Baton Rouge	085	PATTEN, GEORGIA	-6473Z		ECONOMY	270	DOMESTIC	2	05/92	53	05/28/92	11204BR	303532	911303	D W	1.67
East Baton Rouge	044	NPC SERVICES	-6485Z	BRW-14	ARDAMAN	40	PLUGGED	4	05/90			112SESC	303452	911437	D	1.91
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	1.39
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 Rouge	044	NPC SERVICES	-6490Z	DP-W	T.L. JAMES	117	PIEZOMETER	4	05/93	36	05/10/93	112SLBR	303516	911311	D W	1.38
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	1.53
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	1.93
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	1.93

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	1.92
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	1.91
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	1.91
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	0.31
East Baton Rouge	044	FIRST ENERGY	-6510Z	MCVEA 1	ECONOMY	185	PLUGGED	4	02/90	30	02/21/90	11204BR	303510	911252	D W	1.24
East Baton Rouge	048	ROLLINS ENV SER	-6526Z	24C	ENCOR	112	MONITOR	2	07/90	26.5	08/06/90	112SLBR	303351	911251	D W	0.28
East Baton Rouge	048	ROLLINS ENV SER	-6527Z	31C	ENCOR	128	MONITOR	2	07/90	27.3	08/08/90	112SLBR	303347	911253	D W	0.35
East Baton Rouge	048	ROLLINS ENV SER	-6565Z	I-1R	ENCOR	86	RECOVERY	6	10/90	34.6	11/01/90	112SLBR	303348	911251	D W	0.33
East Baton Rouge	048	ROLLINS ENV SER	-6566Z	I-2R	ENCOR	50	RECOVERY	6	10/90	35.0	11/01/90	112SESC	303348	911251	D W	0.33
East Baton Rouge	048	ROLLINS ENV SER	-6567Z	MW-4B-1	AQUATERRA, INC.	50	MONITOR	2	09/90	30.5	10/25/90	112SLBR	303348	911251	D W	0.33
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	0.24
East Baton Rouge	048	ROLLINS ENV SER	-6569Z	MW-42A	AQUATERRA, INC.	40	MONITOR	2	10/90	33.5	10/25/90	112SESC	303349	911254	D W	0.31
East Baton Rouge	048	ROLLINS ENV SER	-6570Z	MW-42B-1	AQUATERRA, INC.	50	MONITOR	2	09/90	33.5	10/25/90	112SESC	303349	911254	D W	0.31
East Baton Rouge	048	ROLLINS ENV SER	-6571Z	MW-43-A	AQUATERRA, INC.	38	MONITOR	2	10/90	15.5	10/25/90	112SESC	303354	911244	D W	0.28

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	0.24
East Baton Rouge	057	PAXON POLYMER	-6579Z	B-1	SOIL TESTING	10	PLUGGED	4	10/90	DRY	10/05/90	112SESC	303340	911219	D W	0.76
East Baton Rouge	074	EXXON CO USA	-6585Z	MW-1	PSI/PTL	30	PLUGGED	4	09/90	19.62	09/28/90	112SESC	303227	911144	D W	2.21
East Baton Rouge	074	EXXON CO USA	-6586Z	MW-2	PSI/PTL	15	PLUGGED	4	09/90	8.02	09/04/90	112SESC	303227	911144	D W	2.21
East Baton Rouge	074	EXXON CO USA	-6587Z	MW-3	PSI/PTL	30	PLUGGED	4	09/90	19.62	09/28/90	112SESC	303227	911144	D W	2.21
East Baton Rouge	069	EXXON PLASTICS	-6590Z	MW-38	G & E	16	MONITOR	4	11/90	DRY	11/05/90	112SESC	303306	911050	D W	2.35
East Baton Rouge	057	USX REALTY	-6591Z	P-1	G & E	30	PLUGGED	2	10/90	9.15	10/26/90	112SESC	303325	911223	D W	0.93
East Baton Rouge	057	USX REALTY	-6592Z	P-2	G & E	30	PLUGGED	2	10/90	11.1	10/26/90	112SESC	303325	911223	D W	0.93
East Baton Rouge	057	USX REALTY	-6593Z	P-3	G & E	26	PLUGGED	2	10/90	13.3	10/26/90	112SESC	303325	911223	D W	0.93
East Baton Rouge	057	USX REALTY	-6594Z	P-4	G & E	28	PLUGGED	2	10/90	11.8	10/26/90	112SESC	303325	911223	D W	0.93
East Baton Rouge	058	ROLLINS ENV SER	-6611Z	R-4	ENCOR	90	RECOVERY	6	01/91	40.1	02/14/91	112SLBR	303338	911300	D W	0.52
East Baton Rouge	058	ROLLINS ENV SER	-6612Z	AT-14	AQUATERRA, INC.	82	MONITOR	2	01/91	40.4	02/14/91	112SLBR	303337	911302	D W	0.55
East Baton Rouge	054	EXXON PLASTICS	-6619Z	12-A	LAYNE ENVIRON-	25	MONITOR	4	03/91	7	03/06/91	112SESC	303305	911054	D W	2.30
East Baton Rouge	051	USX REALTY	-6652Z	P-5	G & E	55	PLUGGED	2	02/91	9.2	03/05/91	112SESC	303325	911223	D W	0.93

East Baton Rouge	057	USX REALTY	-6653Z	P-6	G & E	31	PLUGGED	2	02/91	10.6	03/05/91	112SESC	303325	911223	D W	0.93
East Baton Rouge	057	USX REALTY	-6654Z	P-7	G & E	31	PLUGGED	2	02/91	6.9	03/05/91	112SESC	303325	911223	D W	0.93
East Baton Rouge	057	USX REALTY	-6655Z	P-8	G & E	29	PLUGGED	2	02/91	3.2	03/05/91	112SESC	303325	911223	D W	0.93
East Baton Rouge	057	USX REALTY	-6656Z	RW-1	G & E	30	PLUGGED	4	02/91	5.0	03/05/91	112SESC	303325	911223	D W	0.93
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	1.86
East Baton Rouge	058	ROLLINS ENV SER	-6676Z	AT-15	AQUATERRA, INC.	80	MONITOR	2	04/91	38.6	04/10/91	112SLBR	303337	911303	D W	0.55
East Baton Rouge	058	ROLLINS ENV SER	-6677Z	AT-16	AQUATERRA, INC.	77	MONITOR	2	04/91	36.9	04/10/91	112SLBR	303337	911302	D W	0.55
East Baton Rouge	058	ROLLINS ENV SER	-6678Z	AT-17	AQUATERRA, INC.	78	MONITOR	2	04/91	28.1	04/12/91	112SLBR	303337	911301	D W	0.54
East Baton Rouge	048	ROLLINS ENV SER	-6679Z	P-23	ENCOR	62	PIEZOMETER	2	03/91	23.0	04/10/91	112SESC	303348	911247	D W	0.35
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	0.17
East Baton Rouge	037	RHONE-POULENC	-6694Z	MW-1A	LAYNE (ENV)	20	PLUGGED	2	04/91	7	04/10/91	112MRVAC	303333	911116	D W	1.74
East Baton Rouge	057	USX REALTY	-6743Z	1D	GERAGHTY	70	PLUGGED		11/81			112SLBR	303317	911238		0.96
East Baton Rouge	057	USX REALTY	-6744Z	4D	GERAGHTY	70	PLUGGED		11/81			112SLBR	303328	911223		0.88
East Baton Rouge	057	USX REALTY	-6745Z	4S	GERAGHTY	35	PLUGGED		11/81			112SESC	303328	911223		0.88

East Baton Rouge	057	USX REALTY	-6746Z	7D	GERAGHTY	70	PLUGGED		11/81			112SLBR	303320	911241		0.89
East Baton Rouge	057	USX REALTY	-6747Z	7S	GERAGHTY	35	PLUGGED		11/81			112SESC	303320	911241		0.89
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	0.71
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	0.52
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	0.54
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	0.71
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	1.94
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	1.90
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	1.87
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	1.93
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	1.94
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	1.93
East Baton Rouge	044	NPC SERVICES	-6783Z	W-1022-1	LAYNE (ENV)	44	PLUGGED	4	12/90	9	12/17/91	112SESC	303451	911438	D W	1.91
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	1.84

East Baton Rouge	044	NPC SERVICES	-6785Z	W-T11	LAYNE (ENV)	68	PLUGGED	4	02/91	47	02/19/91	112SESC	303446	911428	D W	1.72
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	1.72
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	1.69
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	1.72
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	1.74
East Baton Rouge	048	ROLLINS ENV SER	-6790Z	MW-3C	AQUATERRA, INC.	126	MONITOR	2	10/91	28.6	11/07/91	112SLBR	303351	911240	D W	0.36
East Baton Rouge	048	ROLLINS ENV SER	-6791Z	MW-23B-2	AQUATERRA, INC.	76	MONITOR	2	11/91	28.8	11/19/91	112SESC	303348	911247	D W	0.35
East Baton Rouge	048	ROLLINS ENV SER	-6792Z	MW-23C	AQUATERRA, INC.	128	MONITOR	2	11/91	30.0	11/21/91	112SLBR	303348	911247	D W	0.35
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	1.75
East Baton Rouge	044	NPC SERVICES	-6804Z	W-0825-1	LAYNE (ENV)	68	PLUGGED	4	10/91	10	10/10/91	112SESC	303452	911433	D W	1.85
East Baton Rouge	044	NPC SERVICES	-6805Z	W-0827-2	LAYNE (ENV)	27	PLUGGED	4	10/91	12	10/04/91	112SESC	303450	911431	D W	1.80
East Baton Rouge	044	NPC SERVICES	-6806Z	W-0828-1	LAYNE (ENV)	82	PLUGGED	4	10/91	11	10/10/91	112SESC	303450	911430	D W	1.79
East Baton Rouge	044	NPC SERVICES	-6807Z	W-0828-2	LAYNE (ENV)	26	PLUGGED	4	10/91	12	10/02/91	112SESC	303449	911431	D W	1.79
East Baton Rouge	044	NPC SERVICES	-6808Z	W-0929-1	LAYNE (ENV)	18	PLUGGED	4	09/91	10	09/25/91	112SESC	303449	911431	D W	1.79

East Baton Rouge	044	NPC SERVICES	-6809Z	W-0930-1	LAYNE (ENV)	72	PLUGGED	4	09/91	8	09/00/91	112SESC	303448	911429	D W	1.75
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	1.78
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	1.76
East Baton Rouge	044	NPC SERVICES	-6812Z	W-1126-1	LAYNE (ENV)	58	PLUGGED	4	10/91	12	10/28/91	112SESC	303448	911434	D W	1.83
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	0.33
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	0.27
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	0.39
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	0.49
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	0.60
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	0.62
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	0.42
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	0.33
East Baton Rouge	076	FURR, TOM	-6853Z		SUMMERS (DALE)	280	DOMESTIC	4	07/92	62	07/23/92	11204BR	303539	911212	D W	1.93
East Baton Rouge	048	EXXON MOBIL	-6863Z	MW-7	GRINER	30	PLUGGED	2	07/92	7.35	07/21/92	112SESC	303340	911225	D W	0.69

East Baton Rouge	048	EXXON MOBIL	-6864Z	MW-8	GRINER	22	PLUGGED	2	07/92	5.28	07/21/92	112SESC	303340	911225	D W	0.69
East Baton Rouge	048	EXXON MOBIL	-6865Z	MW-9	GRINER	60	PLUGGED	2	07/92	11.21	07/21/92	112SLBR	303340	911225	D W	0.69
East Baton Rouge	048	EXXON MOBIL	-6866Z	MW-10	GRINER	22	PLUGGED	2	07/92	5.06	07/21/92	112SESC	303340	911225	D W	0.69
East Baton Rouge	048	EXXON MOBIL	-6867Z	MW-11	GRINER	30	PLUGGED	2	07/92	5.70	07/21/92	112SESC	303340	911225	D W	0.69
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	1.44
East Baton Rouge	044	NPC SERVICES	-6869Z	W-0829-2	T.L. JAMES	78	PLUGGED	6	09/92	16	09/26/92	112SESC	303450	911431	D W	1.80
East Baton Rouge	048	ROLLINS ENV SER	-6883Z	4C-U	AQUATERRA, INC.	117	MONITOR	2	09/92	26.9	10/13/92	112SLBR	303350	911251	D W	0.29
East Baton Rouge	048	ROLLINS ENV SER	-6884Z	31B-1L	ENCOR	51	MONITOR	2	10/92	32.0	10/13/92	112SESC	303349	911254	D W	0.31
East Baton Rouge	048	ROLLINS ENV SER	-6885Z	31B-1U	ENCOR	40	MONITOR	2	10/92	31.9	10/13/92	112SESC	303349	911254	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	0.19
East Baton Rouge	048	ROLLINS ENV SER	-6887Z	48A	ENCOR	40	MONITOR	2	10/92	21.7	10/13/92	112SESC	303402	911253	D W	0.07
East Baton Rouge	048	ROLLINS ENV SER	-6888Z	50B-1	ENCOR	53	MONITOR	2	09/92	32.9	10/13/92	112SLBR	303352	911259	D W	0.26
East Baton Rouge	048	ROLLINS ENV SER	-6889Z	51A	ENCOR	34	MONITOR	2	09/92	30.9	10/13/92	112SESC	303349	911257	D W	0.31
East Baton Rouge	048	ROLLINS ENV SER	-6890Z	51B-1	ENCOR	45	MONITOR	2	09/92	32.0	10/13/92	112SESC	303349	911257	D W	0.31

East Baton Rouge	044	NPC SERVICES	-6895Z	W-1028-1	T.L. JAMES	73	PLUGGED	6	10/92	14	10/10/92	112SESC	303449	911433	D W	1.82
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	1.88
East Baton Rouge	044	NPC SERVICES	-6897Z	W-1128-2	T.L. JAMES	77	PLUGGED	6	10/92	18	10/05/92	112SESC	303450	911436	D W	1.87
East Baton Rouge	085	NPC SERVICES	-6907Z	STW-2	CAPOZZOLI	25	PLUGGED	2	11/84			112SESC	303522	911309		1.49
East Baton Rouge	048	ROLLINS ENV SER	-6908Z	5C-U	ENCOR	113	MONITOR	2	10/92	27.8	11/05/92	112SLBR	303357	911251	D W	0.17
East Baton Rouge	048	ROLLINS ENV SER	-6909Z	24C-L	ENCOR	130	MONITOR	2	11/92	28.7	11/05/92	112SLBR	303355	911253	D W	0.19
East Baton Rouge	048	ROLLINS ENV SER	-6910Z	33C-L	ENCOR	126	MONITOR	2	10/92	26.1	11/05/92	112SLBR	303400	911251	D W	0.12
East Baton Rouge	048	ROLLINS ENV SER	-6911Z	33C-U	ENCOR	112	MONITOR	2	10/92	25.9	10/13/92	112SLBR	303400	911251	D W	0.12
East Baton Rouge	048	ROLLINS ENV SER	-6912Z	49B-2	ENCOR	85	MONITOR	2	10/92	30.0	10/13/92	112SLBR	303359	911253	D W	0.12
East Baton Rouge	056	HOECHST CELANES	-6913Z	MW-4A	GDC	48	MONITOR	4	10/92	18.5	10/19/92	112SESC	303306	911236	D W	1.17
East Baton Rouge	044	NPC SERVICES	-6914Z	W-0928-1	T.L. JAMES	79	PLUGGED	6	10/92	16	10/29/92	112SESC	303450	911432	D W	1.82
East Baton Rouge	048	ROLLINS ENV SER	-6926Z	AT-21	ENCOR	82	MONITOR	2	11/92	41.3	11/16/92	112SLBR	303356	911303	D W	0.22
East Baton Rouge	048	ROLLINS ENV SER	-6927Z	AT-22	ENCOR	97	MONITOR	2	11/92	40.8	11/16/92	112SLBR	303356	911303	D W	0.22
East Baton Rouge	048	ROLLINS ENV SER	-6928Z	AT-24	ENCOR	80	MONITOR	2	11/92	39.8	12/04/92	112SLBR	303351	911305	D W	0.31

East Baton Rouge	048	ROLLINS ENV SER	-6929Z	AT-25	ENCOR	92	MONITOR	2	12/92	40.3	12/04/92	112SLBR	303351	911305	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	1.44
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	0.35
East Baton Rouge	083	BATON ROUGE, LA	-6941Z	P-8	GRINER	37	PLUGGED	2	.			112SLBR	303604	911418		2.66
East Baton Rouge	083	BATON ROUGE, LA	-6943Z	P-27	GRINER	62	PLUGGED	2	.			112SLBR	303537	911413		2.18
East Baton Rouge	079	BATON ROUGE, LA	-6945Z	P-63	GRINER	32	PLUGGED	2	.			112SESC	303608	911358		2.57
East Baton Rouge	083	BATON ROUGE, LA	-6946Z	P-68	GRINER	43	PLUGGED	2	.			112SLBR	303550	911358		2.26
East Baton Rouge	079	BATON ROUGE, LA	-6947Z	P-74	GRINER	60	PLUGGED	2	.			112SESC	303612	911353		2.61
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	2.57
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	2.53
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	2.13
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	1.92
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	1.97
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	1.97

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	2.06
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	2.05
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	2.05
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	2.40
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	2.54
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	2.33
East Baton Rouge	044	NPC SERVICES	-6976Z	W-0729-2	T.L. JAMES	79	PLUGGED	6	12/92	15	12/31/92	112SLBR	303450	911430	D W	1.79
East Baton Rouge	044	NPC SERVICES	-6977Z	W0-826-3	T.L. JAMES	74	PLUGGED	6	01/93	16	01/13/92	112SLBR	303451	911433	D W	1.84
East Baton Rouge	044	NPC SERVICES	-6978Z	W-0828-3	T.L. JAMES	39	PLUGGED	6	12/92	7	12/24/92	112SESC	303450	911431	D W	1.80
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	1.85
East Baton Rouge	048	ROLLINS ENV SER	-6992Z	AT-23	ENCOR	110	MONITOR	2	02/93	32.4	02/15/93	112SLBR	303356	911303	D W	0.22
East Baton Rouge	048	ROLLINS ENV SER	-6993Z	AT-26	ENCOR	106	MONITOR	2	02/93	33.7	02/11/93	112SLBR	303351	911305	D W	0.31
East Baton Rouge	044	NPC SERVICES	-7000Z	W-0827-3	T.L. JAMES	78	PLUGGED	6	01/93	14	02/01/93	112SESC	303451	911431	D W	1.81
East Baton Rouge	044	NPC SERVICES	-7001Z	W-0725-2	T.L. JAMES	65	PLUGGED	6	01/93	12	02/01/93	112SESC	303452	911433	D W	1.85

East Baton Rouge	058	EXXON MOBIL	-7010Z	MW-12	GRINER	110	PLUGGED	2	02/93	19.8	02/12/93	112SLBR	303336	911245	D W	0.58
East Baton Rouge	058	EXXON MOBIL	-7011Z	MW-13	GRINER	29	PLUGGED	2	01/93	6.05	02/12/93	112SESC	303337	911245	D W	0.56
East Baton Rouge	058	EXXON MOBIL	-7012Z	MW-14	GRINER	56	PLUGGED	2	01/93	12.0	02/12/93	112SESC	303337	911246	D W	0.56
East Baton Rouge	058	EXXON MOBIL	-7013Z	MW-15	GRINER	59	PLUGGED	2	01/93	13.95	02/12/93	112SLBR	303336	911244	D W	0.58
East Baton Rouge	058	EXXON MOBIL	-7014Z	MW-16	GRINER	29	PLUGGED	2	01/93	5.68	02/12/93	112SESC	303336	911244	D W	0.58
East Baton Rouge	058	EXXON MOBIL	-7015Z	MW-17	GRINER	58	PLUGGED	2	01/93	9.65	02/12/93	112SLBR	303337	911244	D W	0.57
East Baton Rouge	044	NPC SERVICES	-7016Z	W-0726-4	T.L. JAMES	81	PLUGGED	6	02/93	23	02/16/93	112SLBR	303451	911432	D W	1.82
East Baton Rouge	044	NPC SERVICES	-7017Z	W-0727-2	T.L. JAMES	78	PLUGGED	6	02/93	12	02/28/93	112SLBR	303450	911431	D W	1.80
East Baton Rouge	044	NPC SERVICES	-7018Z	W-0727-4	T.L. JAMES	78	PLUGGED	6	02/93	13	02/21/93	112SLBR	303451	911431	D W	1.81
East Baton Rouge	044	NPC SERVICES	-7019Z	W-0826-2	T.L. JAMES	78	PLUGGED	6	02/93	12	02/12/93	112SLBR	303451	911432	D W	1.82
East Baton Rouge	044	NPC SERVICES	-7077Z	W-0727-3	T.L. JAMES	79	PLUGGED	6	03/93	3	04/15/93	112SLBR	303451	911431	D W	1.81
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	1.90
East Baton Rouge	044	NPC SERVICES	-7079Z	W-1123-2	T.L. JAMES	81	RECOVERY	6	03/93	15	04/15/93	112SLBR	303450	911437	D W	1.89
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	1.85

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	1.53
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	1.53
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	1.52
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	1.53
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	1.55
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	1.55
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	1.55
East Baton Rouge	044	NPC SERVICES	-7097Z	W-0920-1	T.L. JAMES	84	PLUGGED	6	03/93	22	05/12/93	112SLBR	303453	911440	D W	1.96
East Baton Rouge	044	NPC SERVICES	-7098Z	W-1020-1	T.L. JAMES	84	PLUGGED	6	04/93	22	05/12/93	112SLBR	303452	911439	D W	1.93
East Baton Rouge	073	EXXON CO USA	-7111Z	MD-1	DAMES & MOORE	22	PLUGGED	3	1980			112SESC	303240	911124		2.21
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	1.93
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	1.91
East Baton Rouge	044	NPC SERVICES	-7137Z	W-0422-2	T.L. JAMES	98	PLUGGED	6	06/93	29	06/10/93	112SESC	303456	911433	D W	1.89

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	1.89
East Baton Rouge	044	NPC SERVICES	-7139Z	W-0920-2	T.L. JAMES	80	PLUGGED	6	06/93	18	06/24/93	112SESC	303453	911438	D W	1.93
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	1.91
East Baton Rouge	044	NPC SERVICES	-7141Z	W-1021-2	T.L. JAMES	85	PLUGGED	6	07/93	18	07/12/93	112SESC	303452	911438	D W	1.92
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	0.16
East Baton Rouge	044	NPC SERVICES	-7166Z	W-0921-1	T.L. JAMES	88	PLUGGED	6	07/93	24	08/10/93	112SESC	303453	911437	D W	1.91
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	1.91
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	1.88
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	1.88
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	2.33
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	2.31
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	2.13
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	1.51
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	2.48

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	1.89
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	1.51
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	1.82
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	1.82
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	1.81
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	1.83
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	1.89
East Baton Rouge	044	NPC SERVICES	-7216Z	W-0523-2	T.L. JAMES	88	PLUGGED	6	11/93	13	12/03/93	112SESC	303455	911433	D W	1.88
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	1.83
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	1.87
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	1.84
East Baton Rouge	044	NPC SERVICES	-7220Z	W-0626-2	T.L. JAMES	82	PLUGGED	6	10/93	17	10/15/93	112SESC	303453	911431	D W	1.83
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	1.84
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	1.85

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	1.85
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	1.85
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	1.84
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	1.83
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	1.95
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	1.95
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	1.96
East Baton Rouge	044	NPC SERVICES	-7255Z	W-0520-2	T.L. JAMES	102	RECOVERY	6	02/94	22	03/09/94	112SLBR	303457	911436	D W	1.94
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	1.94
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	1.90
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	1.86
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	1.86
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	1.86
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	1.84

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	1.77
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	1.82
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	1.82
East Baton Rouge	048	ROLLINS ENV SER	-7371Z	R-5	AQUATERRA, INC.	54	RECOVERY	6	07/94	29.30	07/28/94	112SESC	303349	911250	D W	0.32
East Baton Rouge	058	EXXON MOBIL	-7382Z	AS-1	GRINER	30	PLUGGED	2	06/94	6.70	07/26/94	112SESC	303337	911232	D W	0.66
East Baton Rouge	058	EXXON MOBIL	-7383Z	AS-2	GRINER	30	PLUGGED	2	06/94	6.73	07/26/94	112SESC	303338	911232	D W	0.64
East Baton Rouge	058	EXXON MOBIL	-7384Z	AS-3	GRINER	30	PLUGGED	2	06/94	6.68	07/26/94	112SESC	303338	911231	D W	0.65
East Baton Rouge	058	EXXON MOBIL	-7385Z	AS-4	GRINER	30	PLUGGED	2	06/94	6.67	07/26/94	112SESC	303338	911231	D W	0.65
East Baton Rouge	058	EXXON MOBIL	-7386Z	AS-5	GRINER	30	PLUGGED	2	06/94	7.19	07/26/94	112SESC	303338	911231	D W	0.65
East Baton Rouge	058	EXXON MOBIL	-7387Z	AS-6	GRINER	30	PLUGGED	2	06/94	9.51	07/26/94	112SESC	303338	911231	D W	0.65
East Baton Rouge	058	EXXON MOBIL	-7388Z	AS-7	GRINER	30	PLUGGED	2	06/94	6.90	07/26/94	112SESC	303338	911232	D W	0.64
East Baton Rouge	058	EXXON MOBIL	-7389Z	AS-8	GRINER	30	PLUGGED	2	06/94	9.20	07/26/94	112SESC	303338	911231	D W	0.65
East Baton Rouge	058	EXXON MOBIL	-7390Z	AS-9	GRINER	30	PLUGGED	2	06/94	12.34	07/26/94	112SESC	303338	911232	D W	0.64
East Baton Rouge	058	EXXON MOBIL	-7391Z	RW-1	GRINER	62	PLUGGED	4	06/94	12.93	07/26/94	112SESC	303338	911231	D W	0.65

East Baton Rouge	058	EXXON MOBIL	-7392Z	SVE-1	GRINER	8	PLUGGED	2	06/94	6.43	07/26/94	112SESC	303338	911231	D W	0.65
East Baton Rouge	058	EXXON MOBIL	-7393Z	SVE-2	GRINER	8	PLUGGED	2	06/94	7.00	07/26/94	112SESC	303338	911232	D W	0.64
East Baton Rouge	058	EXXON MOBIL	-7394Z	SVE-3	GRINER	8	PLUGGED	2	06/94	6.87	07/26/94	112SESC	303338	911231	D W	0.65
East Baton Rouge	058	EXXON MOBIL	-7395Z	SVE-4	GRINER	8	PLUGGED	2	06/94	6.82	07/26/94	112SESC	303338	911232	D W	0.64
East Baton Rouge	058	EXXON MOBIL	-7396Z	SVE-5	GRINER	8	PLUGGED	2	06/94	6.07	07/26/94	112SESC	303338	911232	D W	0.64
East Baton Rouge	058	EXXON MOBIL	-7397Z	SVE-6	GRINER	8	PLUGGED	2	06/94	6.60	07/26/94	112SESC	303338	911232	D W	0.64
East Baton Rouge	058	EXXON MOBIL	-7398Z	SVE-7	GRINER	8	PLUGGED	2	06/94	6.31	07/26/94	112SESC	303338	911232	D W	0.64
East Baton Rouge	058	EXXON MOBIL	-7399Z	SVE-8	GRINER	8	PLUGGED	2	06/94	6.61	07/26/94	112SESC	303338	911232	D W	0.64
East Baton Rouge	058	EXXON MOBIL	-7400Z	SVE-9	GRINER	8	PLUGGED	2	06/94	6.35	07/26/94	112SESC	303338	911231	D W	0.65
East Baton Rouge	058	EXXON MOBIL	-7401Z	SVE-10	GRINER	8	PLUGGED	2	06/94	5.04	07/26/94	112SESC	303338	911231	D W	0.65
East Baton Rouge	058	EXXON MOBIL	-7402Z	SVE-11	GRINER	8	PLUGGED	2	06/94	6.60	07/26/94	112SESC	303338	911232	D W	0.64
East Baton Rouge	058	EXXON MOBIL	-7403Z	SVE-12	GRINER	8	PLUGGED	2	06/94	6.55	07/26/94	112SESC	303338	911231	D W	0.65
East Baton Rouge	058	EXXON MOBIL	-7404Z	SVE-13	GRINER	8	PLUGGED	2	06/94	6.68	07/26/94	112SESC	303338	911231	D W	0.65
East Baton Rouge	058	EXXON MOBIL	-7405Z	SVE-14	GRINER	8	PLUGGED	2	06/94	6.23	07/26/94	112SESC	303338	911231	D W	0.65

East Baton Rouge	058	EXXON MOBIL	-7406Z	SVE-15	GRINER	8	PLUGGED	2	06/94	6.28	07/26/94	112SESC	303338	911231	D W	0.65
East Baton Rouge	058	EXXON MOBIL	-7407Z	SVE-16	GRINER	8	PLUGGED	2	06/94	5.00	07/26/94	112SESC	303338	911231	D W	0.65
East Baton Rouge	044	NPC SERVICES	-7408Z	W-0419-1	LEE, PETER B.	23	PLUGGED	6	08/94			112SESC	303458	911436	D	1.95
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	1.95
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	1.90
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	1.88
East Baton Rouge	044	NPC SERVICES	-7412Z	W-0525-1	LEE, PETER B.	90	PLUGGED	6	07/94	33	07/21/94	112SESC	303454	911431	D W	1.84
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	1.81
East Baton Rouge	044	NPC SERVICES	-7414Z	W-0627-1	LEE, PETER B.	82	PLUGGED	6	08/94	35	08/18/94	112SESC	303452	911430	D W	1.81
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	1.74
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	1.45
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	1.84
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	1.82
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	1.84

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	1.83
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	1.85
East Baton Rouge	044	NPC SERVICES	-7446Z	W-0726-1	LEE, PETER B.	88	PLUGGED	6	09/94	19.5	10/07/94	112SESC	303452	911431	D W	1.82
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	1.52
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	1.49
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	1.43
East Baton Rouge	044	NPC SERVICES	-7477Z	PBB-2746-1	LEE, PETER B.	90	PIEZOMETER	2	11/94	13.5	12/13/94	112SESC	303423	911426	D W	1.54
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	1.53
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	1.54
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	1.65
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	1.65
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	1.68
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	1.68
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	1.92

East Baton Rouge	044	NPC SERVICES	-7531Z	W-0721-2	LEE, PETER B.	73	PLUGGED	6	01/95	17	02/28/95	112SESC	303455	911436	D W	1.92
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	1.91
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	1.81
East Baton Rouge	044	NPC SERVICES	-7534Z	W-0821-2	LEE, PETER B.	68	PLUGGED	6	01/95	37	02/28/95	112SESC	303454	911437	D W	1.92
East Baton Rouge	044	SCHUYLKIL L META	-7535Z	W-1R	SOILS	48	MONITOR	2X2	01/95	27.6	01/26/95	112SESC	303501	911435	D W	1.97
East Baton Rouge	044	SCHUYLKIL L META	-7536Z	W-4R	SOILS	34	MONITOR	2X2	01/95	5.3	01/26/95	112SESC	303513	911444	D W	2.22
East Baton Rouge	044	SCHUYLKIL L META	-7537Z	W-12R	SOILS	40	MONITOR	2X2	01/95	3.4	01/26/95	112SESC	303515	911443	D W	2.23
East Baton Rouge	044	SCHUYLKIL L META	-7538Z	W-13R	SOILS	49	MONITOR	2X2	01/95	28.7	01/26/95	112SESC	303505	911443	D W	2.12
East Baton Rouge	044	SCHUYLKIL L META	-7539Z	W-16	SOILS	28	MONITOR	2X2	01/95	3.6	01/26/95	112SESC	303510	911445	D W	2.20
East Baton Rouge	044	SCHUYLKIL L META	-7540Z	W-17	SOILS	34	MONITOR	2X2	01/95	6.8	01/26/95	112SESC	303508	911445	D W	2.18
East Baton Rouge	044	SCHUYLKIL L META	-7541Z	W-18	SOILS	42	MONITOR	2X2	02/95	27.2	02/15/95	112SESC	303506	911444	D W	2.14
East Baton Rouge	058	PAXON POLYMER	-7542Z	MW-2	UNKNOWN	35	PLUGGED	2	04/85			112SESC	303324	911252		0.79
East Baton Rouge	058	PAXON POLYMER	-7543Z	MW-3	UNKNOWN	33	PLUGGED	2	04/85			112SESC	303326	911254		0.75
East Baton Rouge	058	PAXON POLYMER	-7544Z	MW-5	UNKNOWN	28	PLUGGED	2	04/85			112SESC	303331	911251		0.65

East Baton Rouge	058	PAXON POLYMER	-7545Z	MW-6	UNKNOWN	90	PLUGGED	2	12/87			112SESC	303328	911255		0.71
East Baton Rouge	044	NPC SERVICES	-7562Z	W-0721-3	LEE, PETER B.	83	PLUGGED	6	01/95	31	04/24/95	112SESC	303454	911436	D W	1.91
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	1.90
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	1.91
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	1.91
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	1.88
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	1.90
East Baton Rouge	044	NPC SERVICES	-7568Z	W-0822-2	LEE, PETER B.	100	PLUGGED	6	05/95	20	05/03/95	112SESC	303453	911435	D W	1.89
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	1.90
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	1.82
East Baton Rouge	044	NPC SERVICES	-7577Z	P-0427-1	LEE, PETER B.	205	PIEZOMETER	2	02/95	45	05/22/95	11204BR	303454	911429	D W	1.81
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	1.88
East Baton Rouge	044	NPC SERVICES	-7579Z	W-0723-4	LEE, PETER B.	90	PLUGGED	6	06/95	10	06/02/95	112SESC	303453	911435	D W	1.89
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	1.65

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	1.29
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	1.60
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	1.73
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	1.73
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	1.44
East Baton Rouge	068	BATON ROUGE, LA	-7596Z	W-9R	GDC	48	PLUGGED	4X4	06/95	31.34	05/24/95	112SESC	303245	911207	D W	1.72
East Baton Rouge	068	BATON ROUGE, LA	-7597Z	W-10R	GDC	64	PLUGGED	4X4	06/95	32.02	05/31/95	112SESC	303246	911210	D W	1.68
East Baton Rouge	033	ROLLINS ENV SER	-7599Z	AT-27	AQUATERRA, INC.	122	PIEZOMETER	2	06/95	30.61	06/29/95	112SLBR	303337	911301	D W	0.54
East Baton Rouge	033	ROLLINS ENV SER	-7600Z	MW-52C	AQUATERRA, INC.	124	MONITOR	2	05/95	24.20	06/20/95	112SLBR	303350	911252	D W	0.29
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	0.25
East Baton Rouge	033	ROLLINS ENV SER	-7602Z	MW-54B-1	AQUATERRA, INC.	47	MONITOR	2	06/95	24.38	06/29/95	112SLBR	303410	911251	D W	0.12
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	1.87
East Baton Rouge	044	NPC SERVICES	-7604Z	W-0824-2	LEE, PETER B.	77	PLUGGED	6	06/95	10	06/30/95	112SESC	303452	911434	D W	1.86
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	1.89

East Baton Rouge	033	ROLLINS ENV SER	-7615Z	AT-28	AQUATERRA, INC.	68	MONITOR	2	06/95	43.90	07/28/95	112SESC	303337	911301	D W	0.54
East Baton Rouge	033	ROLLINS ENV SER	-7616Z	AT-29	AQUATERRA, INC.	83	MONITOR	2	06/95	43.74	07/28/95	112SESC	303337	911300	D W	0.54
East Baton Rouge	033	ROLLINS ENV SER	-7617Z	AT-30	AQUATERRA, INC.	103	MONITOR	2	06/95	44.25	07/28/95	112SLBR	303337	911259	D W	0.54
East Baton Rouge	033	ROLLINS ENV SER	-7618Z	AT-31	AQUATERRA, INC.	51	MONITOR	2	07/95	28.85	07/28/95	112SESC	303342	911252	D W	0.44
East Baton Rouge	033	ROLLINS ENV SER	-7619Z	AT-32	AQUATERRA, INC.	51	MONITOR	2	07/95	29.90	07/28/95	112SESC	303342	911253	D W	0.44
East Baton Rouge	033	ROLLINS ENV SER	-7620Z	AT-33	AQUATERRA, INC.	75	MONITOR	2	07/95	30.60	07/28/95	112SESC	303342	911253	D W	0.44
East Baton Rouge	033	ROLLINS ENV SER	-7621Z	AT-34	AQUATERRA, INC.	55	MONITOR	2	07/95	28.00	07/18/95	112SESC	303334	911305	D W	0.62
East Baton Rouge	044	SCHUYLKIL L META	-7630Z	P-1/B2	SINGLEY	56	PLUGGED	2	07/95	30	07/15/95	112SLBR	303512	911458	D W	2.40
East Baton Rouge	044	SCHUYLKIL L META	-7631Z	P-2/B4	SINGLEY	23	PLUGGED	2	07/95	3	07/16/95	112SESC	303510	911457	D W	2.36
East Baton Rouge	044	SCHUYLKIL L META	-7632Z	P-3/B6	SINGLEY	24	PLUGGED	2	07/95	3	07/16/95	112SESC	303510	911459	D W	2.39
East Baton Rouge	044	SCHUYLKIL L META	-7633Z	P-4/B6	SINGLEY	95	PLUGGED	2	07/95	16	07/16/95	112SLBR	303510	911459	D W	2.39
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	1.87
East Baton Rouge	044	NPC SERVICES	-7636Z	W-0723-5	LEE, PETER B.	73	PLUGGED	6	08/95	8	08/31/95	112SESC	303453	911434	D W	1.87
East Baton Rouge	044	NPC SERVICES	-7637Z	W-0824-1	LEE, PETER B.	93	PLUGGED	6	07/95	14	08/31/95	112SESC	303452	911434	D W	1.86

East Baton Rouge	058	ROLLINS ENV SER	-7639Z	AT-35	AQUATERRA, INC.	60	MONITOR	2	08/95	23.50	08/23/95	112SESC	303334	911304	D W	0.61
East Baton Rouge	058	ROLLINS ENV SER	-7640Z	AT-36	AQUATERRA, LLC.	36	MONITOR	2	08/95	25.20	08/24/95	112SESC	303332	911304	D W	0.65
East Baton Rouge	058	ROLLINS ENV SER	-7641Z	AT-37	AQUATERRA, INC.	55	MONITOR	2	08/95	26.55	08/24/95	112SESC	303332	911304	D W	0.65
East Baton Rouge	044	NPC SERVICES	-7643Z	W-0724-2	LEE, PETER B.	73	PLUGGED	6	08/95	9	09/20/95	112SESC	303453	911433	D W	1.86
East Baton Rouge	044	NPC SERVICES	-7644Z	W-0724-3	LEE, PETER B.	73	PLUGGED	6	08/95	19	09/20/95	112SESC	303452	911433	D W	1.85
East Baton Rouge	044	NPC SERVICES	-7645Z	W-0720-4	LEE, PETER B.	58	PLUGGED	6	09/95	20	09/28/95	112SESC	303455	911437	D W	1.93
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	1.94
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	1.89
East Baton Rouge	044	NPC SERVICES	-7648Z	W-0925-1	LEE, PETER B.	83	PLUGGED	6	09/95	20	09/28/95	112SESC	303451	911434	D W	1.85
East Baton Rouge	044	NPC SERVICES	-7666Z	W-0825-2	LEE, PETER B.	78	PLUGGED	6	10/95	20	10/20/95	112SESC	303452	911434	D W	1.86
East Baton Rouge	044	NPC SERVICES	-7667Z	W-1025-2	LEE, PETER B.	83	PLUGGED	6	10/95	34	10/20/95	112SESC	303451	911435	D W	1.87
East Baton Rouge	047	ROLLINS ENV SER	-7670Z	I-11	AQUATERRA, INC.	43	RECOVERY	6	10/95	6.5	11/16/95	112SESC	303408	911311	D W	0.27
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	1.88
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	1.87

East Baton Rouge	044	NPC SERVICES	-7682Z	W-0628-2	LEE, PETER B.	78	PLUGGED	6	11/95	37	12/27/95	112SESC	303454	911430	D W	1.82
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	1.86
East Baton Rouge	044	NPC SERVICES	-7684Z	W-0726-3	LEE, PETER B.	88	PLUGGED	6	01/96	30	01/10/96	112SESC	303452	911432	D W	1.83
East Baton Rouge	044	NPC SERVICES	-7685Z	W-0728-2	LEE, PETER B.	83	PLUGGED	6	12/95	36	12/27/95	112SESC	303451	911430	D W	1.80
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	1.89
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	1.86
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	1.86
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	1.93
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	1.91
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.	1.89
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	1.89
East Baton Rouge	044	NPC SERVICES	-7719Z	W-0726-2	LEE, PETER B.	88	PLUGGED	6	02/96	37	03/27/96	112SESC	303452	911432	D W	1.83
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	1.80
East Baton Rouge	044	NPC SERVICES	-7757Z	W-0728-3	LEE, PETER B.	83	PLUGGED	6	05/96	34	05/15/96	112SESC	303451	911430	D W	1.80

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	1.91
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	0.25
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	0.16
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	1.93
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	1.93
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	1.92
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	1.88
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	1.91
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	1.79
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	1.77
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	1.51
East Baton Rouge	144	NPC SERVICES	-7850Z	SCSUG20 -1	NPC SERVICES	89	MONITOR	4	04/97	15.3	04/24/97	112SESC	303524	911300	D W	1.51
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	1.51
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	1.35

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	1.54
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	1.48
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	1.48
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	1.59
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	1.59
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	1.65
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	1.65
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	1.47
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	1.27
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	1.65
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	1.65
East Baton Rouge	144	NPC SERVICES	-7865Z	W-1120-1	NPC SERVICES	67	PIEZOMETER	6	04/97	18.4	04/28/97	112SESC	303452	911440	D W	1.95
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	1.54
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	1.48

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	1.48
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	1.54
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	1.54
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	1.54
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	1.54
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	1.63
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	1.63
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	1.63
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	1.61
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	1.61
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	1.61
East Baton Rouge	044	NPC SERVICES	-7881Z	SBP-65D	NPC SERVICES	146	PIEZOMETER	2	08/96	35	11/20/96	112SESC	303528	911311	D W	1.61
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	1.45
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	1.46

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	1.70
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	1.70
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	1.70
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	1.28
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	1.28
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	1.73
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	1.73
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	1.73
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	1.73
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	2.01
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	1.99
East Baton Rouge	044	NPC SERVICES	-7895Z	VSP-3	NPC SERVICES	32	PIEZOMETER	4	12/96	36.6	01/13/97	112SESC	303521	911419	D W	2.01
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	1.91
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	1.84

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	1.69
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	1.72
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	1.89
East Baton Rouge	144	NPC SERVICES	-7906Z	SC-SUG-1	LAYNE (LA)	107	PLUGGED	4	11/84			112SESC	303526	911308		1.56
East Baton Rouge	144	NPC SERVICES	-7907Z	SC-SDG-2R	LAYNE (LA)	108	PLUGGED	4	03/85			112SESC	303521	911312		1.48
East Baton Rouge	057	HOECHST CELANES	-7915Z	PZN1A	FUGRO (GS)	47	PLUGGED	2	06/97	30.67	06/09/97	112SESC	303323	911230	D W	0.90
East Baton Rouge	057	HOECHST CELANES	-7916Z	PZN1B	FUGRO (GS)	78	PLUGGED	2	06/97	30.5	06/06/97	112SLBR	303323	911230	D W	0.90
East Baton Rouge	057	HOECHST CELANES	-7917Z	PZN1C	FUGRO (GS)	126	PLUGGED	2	06/97	27.72	06/05/97	112SLBR	303323	911230	D W	0.90
East Baton Rouge	057	HOECHST CELANES	-7918Z	PZN2A	FUGRO (GS)	47	PIEZOMETER	2	06/97	18.58	06/05/97	112SESC	303323	911230	D W	0.90
East Baton Rouge	057	HOECHST CELANES	-7919Z	PZN2B	FUGRO (GS)	77	PIEZOMETER	2	06/97	21.71	06/04/97	112SLBR	303323	911230	D W	0.90
East Baton Rouge	057	HOECHST CELANES	-7920Z	PZN2C	FUGRO (GS)	142	PIEZOMETER	2	06/97	24.87	06/19/97	112SLBR	303323	911230	D W	0.90
East Baton Rouge	057	HOECHST CELANES	-7921Z	PZN3C	FUGRO (GS)	145	PIEZOMETER	2	06/97	26.67	06/04/97	112SLBR	303323	911230	D W	0.90
East Baton Rouge	057	HOECHST CELANES	-7922Z	PZN4A	FUGRO (GS)	46	PIEZOMETER	2	06/97	3.37	06/03/97	112SESC	303323	911230	D W	0.90
East Baton Rouge	057	HOECHST CELANES	-7923Z	PZN4B	FUGRO (GS)	76	PIEZOMETER	2	05/97	7.92	05/30/97	112SLBR	303323	911230	D W	0.90

East Baton Rouge	057	HOECHST CELANES	-7924Z	PZN4C	FUGRO (GS)	148	PIEZOMETER	2	05/97	28.88	05/30/97	112SLBR	303323	911230	D W	0.90
East Baton Rouge	057	HOECHST CELANES	-7925Z	PZN5C	FUGRO (GS)	145	PIEZOMETER	2	06/97	28.58	06/23/97	112SLBR	303323	911230	D W	0.90
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	1.88
East Baton Rouge	057	HOECHST CELANES	-7959Z	MW-23	ANDERSON	68	MONITOR	2	11/97	15	12/03/97	112SLBR	303323	911230	D W	0.90
East Baton Rouge	057	HOECHST CELANES	-7960Z	MW-24	ANDERSON	33	MONITOR	2	11/97	18	12/03/97	112SESC	303323	911230	D W	0.90
East Baton Rouge	057	CELANESE NA	-7961Z	AS-1	ANDERSON	42	PLUGGED	2	11/97	17	12/03/97	112SESC	303323	911230	D W	0.90
East Baton Rouge	057	HOECHST CELANES	-7962Z	AS-2	ANDERSON	42	PIEZOMETER	2	11/97	17	12/03/97	112SESC	303323	911230	D W	0.90
East Baton Rouge	057	CELANESE NA	-7963Z	AS-3	ANDERSON	45	PLUGGED	2	11/97	21	12/03/97	112SESC	303323	911230	D W	0.90
East Baton Rouge	057	HOECHST CELANES	-7964Z	CW-1A	ANDERSON	33	MONITOR	2	11/97	13	12/03/97	112SESC	303323	911230	D W	0.90
East Baton Rouge	057	HOECHST CELANES	-7965Z	CW-1B	ANDERSON	70	MONITOR	2	10/97	14	12/03/97	112SLBR	303323	911230	D W	0.90
East Baton Rouge	057	HOECHST CELANES	-7966Z	CW-2A	ANDERSON	33	MONITOR	2	11/97	18	12/03/97	112SESC	303323	911230	D W	0.90
East Baton Rouge	057	HOECHST CELANES	-7967Z	CW-2B	ANDERSON	70	MONITOR	2	11/97	19	12/03/97	112SLBR	303323	911230	D W	0.90
East Baton Rouge	057	HOECHST CELANES	-7968Z	CW-3A	ANDERSON	33	MONITOR	2	11/97	20	12/03/97	112SESC	303323	911230	D W	0.90
East Baton Rouge	057	HOECHST CELANES	-7969Z	CW-3B	ANDERSON	65	MONITOR	2	10/97	21	12/03/97	112SESC	303323	911230	D W	0.90

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	1.65
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	1.84
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	1.84
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	1.69
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	1.91
East Baton Rouge	044	NPC SERVICES	-7985Z	P-1620-1	WALKER-HILL(CO)	40	MONITOR	2	01/98	7	02/13/98	112SESC	303447	911444	D W	1.97
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	1.97
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	1.97
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	2.10
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	1.45
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	2.25
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	1.75
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	1.75
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	1.75

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	1.48
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	1.48
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	1.48
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	1.95
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	1.95
East Baton Rouge	044	NPC SERVICES	-7999Z	P-2342-1	WALKER-HILL(CO)	65	MONITOR	2	11/97	2	03/05/98	112SESC	303430	911428	D W	1.61
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	1.61
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	1.62
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	1.44
East Baton Rouge	044	SCHUYLKIL L META	-8014Z	MW-1	SOIL TESTING	55	MONITOR	2	03/98	27.3	04/22/98	112SESC	303514	911456	D W	2.39
East Baton Rouge	044	SCHUYLKIL L META	-8015Z	MW-19	SOIL TESTING	55	MONITOR	2	03/98	27.3	04/22/98	112SESC	303514	911456	D W	2.39
East Baton Rouge	044	SCHUYLKIL L META	-8016Z	MW-20	SOIL TESTING	22	MONITOR	2	03/98	2.5	04/22/98	112SESC	303509	911457	D W	2.35
East Baton Rouge	044	SCHUYLKIL L META	-8017Z	MW-21	SOIL TESTING	22	MONITOR	2	03/98	1	04/22/98	112SESC	303508	911451	D W	2.26
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	1.78

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	1.84
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	1.82
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	1.84
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	1.84
East Baton Rouge	044	NPC SERVICES	-8061Z	P-1426-7	NPC SERVICES	102	PIEZOMETER	2	08/98	19.41	08/17/98	112SLBR	303446	911435	D W	1.82
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	1.84
East Baton Rouge	056	HOECHST CELANES	-8083Z	MW-25	FUGRO (GS)	67	MONITOR	2	09/98	10.65	10/05/98	112SESC	303308	911204	D W	1.38
East Baton Rouge	056	HOECHST CELANES	-8084Z	PZN6C	FUGRO (GS)	147	MONITOR	2	09/98	32.65	10/05/98	112SESC	303302	911213	D W	1.39
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	0.24
East Baton Rouge	044	SCHUYLKIL L META	-8158Z	W-1	URS CORPORATIO N	46	PLUGGED	2	09/80			112SLBR	303501	911435		1.97
East Baton Rouge	044	SCHUYLKIL L META	-8159Z	W-2	URS CORPORATIO N	50	PLUGGED	2	09/80			112SLBR	303509	911434		2.04
East Baton Rouge	044	SCHUYLKIL L META	-8160Z	W-7	URS CORPORATIO N	30	PLUGGED	2	09/80			112SESC	303450	911248		0.87
East Baton Rouge	044	SCHUYLKIL L META	-8161Z	W-8	URS CORPORATIO N	48	PLUGGED	2	09/80			112SLBR	303509	911445		2.19
East Baton Rouge	044	SCHUYLKIL L META	-8162Z	W-11	URS CORPORATIO N	50	PLUGGED	2	01/81			112SLBR	303515	911433		2.10

East Baton Rouge	044	SCHUYLKIL L META	-8163Z	W-12	CAPOZZOLI	47	PLUGGED	2	01/85			112SLBR	303515	911443		2.23
East Baton Rouge	044	SCHUYLKIL L META	-8164Z	W-13	CAPOZZOLI	47	PLUGGED	2	01/85			112SLBR	303505	911443		2.12
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	1.95
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	2.26
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	2.25
East Baton Rouge	058	GREATER BR PORT	-8198Z	MW-1A	SEMS, INC.	37	MONITOR	4	12/98	30.53	12/18/98	112SESC	303334	911304	D W	0.61
East Baton Rouge	058	GREATER BR PORT	-8199Z	MW-2A	SEMS, INC.	37	MONITOR	4	12/98	31.11	12/18/98	112SESC	303335	911306	D W	0.60
East Baton Rouge	059	GREATER BR PORT	-8200Z	MW-3A	SEMS, INC.	42	MONITOR	4	12/98	27.29	12/17/98	112SESC	303330	911305	D W	0.69
East Baton Rouge	059	GREATER BR PORT	-8201Z	MW-4A	SEMS, INC.	34	MONITOR	4	12/98	24	12/19/98	112SESC	303330	911303	D W	0.68
East Baton Rouge	059	GREATER BR PORT	-8202Z	MW-4C	SEMS, INC.	77	MONITOR	4	01/99	27.93	01/12/99	112SESC	303330	911303	D W	0.68
East Baton Rouge	059	GREATER BR PORT	-8203Z	MW-5A	SEMS, INC.	37	MONITOR	4	12/98	30.80	12/16/98	112SESC	303331	911300	D W	0.66
East Baton Rouge	059	GREATER BR PORT	-8204Z	MW-6A	SEMS, INC.	39	MONITOR	4	01/99	29.47	01/06/99	112SESC	303331	911304	D W	0.67
East Baton Rouge	059	GREATER BR PORT	-8205Z	MW-6B	SEMS, INC.	56	MONITOR	4	01/99	29.48	01/07/99	112SESC	303332	911304	D W	0.65
East Baton Rouge	056	CELANESE NA	-8213Z	AS-4	WALKER-HILL(CO)	40	PLUGGED	2	03/99	20	03/23/99	112SESC	303304	911212	D W	1.37

East Baton Rouge	056	CELANESE NA	-8214Z	AS-5	WALKER-HILL(CO)	40	PLUGGED	2	03/99	19	03/29/99	112SESC	303304	911212	D W	1.37
East Baton Rouge	056	CELANESE NA	-8215Z	AS-6	WALKER-HILL(CO)	40	PLUGGED	2	03/99	19	03/30/99	112SESC	303304	911212	D W	1.37
East Baton Rouge	056	DELTECH CORP	-8216Z	AS-7	WALKER-HILL(CO)	40	MONITOR	2	03/99	19	03/26/99	112SESC	303304	911212	D W	1.37
East Baton Rouge	056	CELANESE NA	-8217Z	AS-8	WALKER-HILL(CO)	40	PLUGGED	2	03/99	19	03/25/99	112SESC	303304	911212	D W	1.37
East Baton Rouge	056	CELANESE NA	-8218Z	AS-9	WALKER-HILL(CO)	40	PLUGGED	2	03/99	19	03/23/99	112SESC	303304	911212	D W	1.37
East Baton Rouge	056	DELTECH CORP	-8219Z	OS-1	WALKER-HILL(CO)	70	MONITOR	2	04/99	32	04/06/99	112SESC	303304	911212	D W	1.37
East Baton Rouge	056	DELTECH CORP	-8220Z	OS-2	WALKER-HILL(CO)	70	MONITOR	2	04/99	32	04/10/99	112SESC	303304	911212	D W	1.37
East Baton Rouge	056	CELANESE NA	-8221Z	OS-3	WALKER-HILL(CO)	35	PLUGGED	2	04/99	20	04/08/99	112SESC	303303	911214	D W	1.37
East Baton Rouge	056	CELANESE NA	-8222Z	OS-4	WALKER-HILL(CO)	35	PLUGGED	2	04/99	20	04/05/99	112SESC	303303	911214	D W	1.37
East Baton Rouge	056	CELANESE NA	-8223Z	OS-5	WALKER-HILL(CO)	35	PLUGGED	2	04/99	20	04/08/99	112SESC	303303	911214	D W	1.37
East Baton Rouge	056	CELANESE NA	-8224Z	OS-6	WALKER-HILL(CO)	35	PLUGGED	2	03/99	20	03/31/99	112SESC	303304	911214	D W	1.35
East Baton Rouge	056	CELANESE NA	-8225Z	OS-7	WALKER-HILL(CO)	35	PLUGGED	2	03/99	20	03/31/99	112SESC	303304	911214	D W	1.35
East Baton Rouge	056	CELANESE NA	-8226Z	OS-8	WALKER-HILL(CO)	35	PLUGGED	2	03/99	20	03/31/99	112SESC	303304	911214	D W	1.35
East Baton Rouge	056	DELTECH CORP	-8227Z	OS-9	WALKER-HILL(CO)	35	MONITOR	2	03/99	20	03/31/99	112SESC	303304	911214	D W	1.35

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	1.93
East Baton Rouge	068	EXXON CO USA	-8381Z	MW-1	UNKNOWN	40	PLUGGED	3	04/79			112SESC	303253	911136		1.90
East Baton Rouge	068	EXXON CO USA	-8382Z	MW-3	UNKNOWN	20	PLUGGED	3	04/79			112SESC	303255	911140		1.82
East Baton Rouge	068	EXXON CO USA	-8383Z	MW-4	UNKNOWN	20	PLUGGED	3	04/79			112SESC	303252	911140		1.86
East Baton Rouge	068	EXXON CO USA	-8384Z	MW-5	UNKNOWN	20	PLUGGED	3	04/79			112SESC	303255	911142		1.80
East Baton Rouge	068	EXXON CO USA	-8385Z	MW-6	UNKNOWN	40	PLUGGED	3	04/79			112SESC	303254	911148		1.75
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	2.28
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	2.34
East Baton Rouge	073	EXXON MOBIL	-8503Z	MD-2	UNKNOWN	20	PLUGGED	3	01/80			112SESC	303243	911136		2.04
East Baton Rouge	073	EXXON MOBIL	-8504Z	MD-3	UNKNOWN	20	PLUGGED	3	01/80			112SESC	303244	911132		2.07
East Baton Rouge	002	STUPP CORP	-8508Z	MW-1	SINGLEY	30	MONITOR	4	04/01	6.66	05/09/01	112MRVAC	303343	911104	D W	1.88
East Baton Rouge	002	STUPP CORP	-8509Z	MW-2	SINGLEY	29	MONITOR	4	04/01	5.30	05/09/01	112MRVAC	303342	911102	D W	1.91
East Baton Rouge	002	STUPP CORP	-8510Z	MW-3	SINGLEY	29	MONITOR	4	04/01	5.92	05/09/01	112MRVAC	303343	911100	D W	1.94
East Baton Rouge	002	STUPP CORP	-8511Z	MW-4	SINGLEY	30	MONITOR	4	04/01	6.21	05/09/01	112MRVAC	303344	911103	D W	1.89

East Baton Rouge	002	STUPP CORP	-8512Z	MW-5	SINGLEY	31	MONITOR	4	04/01	4.36	05/09/01	112MRVA C	303333	911040	D W	2.31
East Baton Rouge	002	STUPP CORP	-8513Z	MW-6	SINGLEY	30	MONITOR	4	04/01	4.11	05/09/01	112MRVA C	303332	911042	D W	2.28
East Baton Rouge	002	STUPP CORP	-8514Z	MW-7	SINGLEY	32	MONITOR	4	04/01	2.22	05/09/01	112MRVA C	303331	911041	D W	2.30
East Baton Rouge	002	STUPP CORP	-8515Z	MW-8	SINGLEY	37	MONITOR	4	04/01	4.08	05/09/01	112MRVA C	303332	911037	D W	2.36
East Baton Rouge	056	HOECHST CELANES	-8552Z	PMS-3	GDC	.	PLUGGED	4	1989			11111111	303309	911211		1.29
East Baton Rouge	069	PLANTATIO N PIPE	-8553Z	MW-1	URS CORPORATIO N	19	MONITOR	2	07/01	7.25	07/10/01	112SESC	303303	911030	D W	2.67
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	1.85
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	1.84
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	1.85
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	1.83
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	1.85
East Baton Rouge	068	CNA HOLDING CO	-8645Z	MW26	WALKER-HILL(CO)	62	MONITOR	2	06/02	13	06/24/02	112MRVA C	303300	911147	D W	1.67
East Baton Rouge	068	CNA HOLDING CO	-8646Z	MW27	WALKER-HILL(CO)	70	MONITOR	2	06/02	13	06/24/02	112MRVA C	303300	911147	D W	1.67
East Baton Rouge	044	NPC SERVICES	-8692Z	P-2522-1	WALKER-HILL(CO)	203	MONITOR	4	11/02			11204BR	303438	911447	D	1.95

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	1.83
East Baton Rouge	068	ERGON	-8699Z	TMP-1	WALKER-HILL(CO)	32	PLUGGED	1	06/02	21.98	06/26/02	112MRVA	303304	911206	D W	1.42
East Baton Rouge	068	ERGON	-8700Z	TMP-2	WALKER-HILL(CO)	32	PLUGGED	1	06/02	21.97	06/26/02	112MRVA	303304	911206	D W	1.42
East Baton Rouge	068	ERGON	-8701Z	TMP-3	WALKER-HILL(CO)	32	PLUGGED	1	06/02	15.10	06/26/02	112MRVA	303304	911206	D W	1.42
East Baton Rouge	044	KCS RAILROAD	-8739Z		BABIN, WHITNEY	300	PUBLIC SUPPLY	2	04/03	65	04/21/03	11206BR	303446	911404	D W	1.38
East Baton Rouge	053	BREC	-8740Z		AMY, M. E.	231	PLUGGED	4	07/03	48	07/09/03	11204BR	303346	911010	ED W	2.74
East Baton Rouge	044	NPC SERVICES	-8849Z	SBP-088	LEE, PETER B.	95	PIEZOMETER	2	08/04	36.8	09/08/04	112SESC	303535	911353	D W	1.97
East Baton Rouge	083	NPC SERVICES	-8850Z	SBP-089	LEE, PETER B.	95	PIEZOMETER	2	06/04	45	09/09/04	112SESC	303541	911441	D W	2.53
East Baton Rouge	081	NPC SERVICES	-8851Z	SBP-096	LEE, PETER B.	105	PIEZOMETER	2	07/04	70	09/09/04	112GZNO	303533	911501	D W	2.67
East Baton Rouge	056	ERGON	-8852Z	MW-1	ARDAMAN	32	MONITOR	4	09/04	10	09/24/04	112MRVA C	303301	911200	D W	1.52
East Baton Rouge	056	ERGON	-8853Z	MW-2	ARDAMAN	30	MONITOR	4	09/04	21	09/24/04	112MRVA C	303258	911201	D W	1.56
East Baton Rouge	056	ERGON	-8854Z	MW-3	ARDAMAN	32	MONITOR	4	09/04	22	09/24/04	112MRVA C	303259	911200	D W	1.55
East Baton Rouge	056	CELANESE NA	-8959Z	PSPZ-2	FUGRO (GS)	38	PIEZOMETER	1	12/04	11.17	04/20/05	112MRVA	303304	911212	W	1.37
East Baton Rouge	056	CELANESE NA	-8960Z	PSPZ-3	FUGRO (GS)	38	PIEZOMETER	1	12/04	11.0	04/20/05	112MRVA	303304	911212	W	1.37

East Baton Rouge	056	CELANESE NA	-8961Z	PSPZ-4	FUGRO (GS)	38	PIEZOMETER	1	12/04	10.65	04/20/05	112MRVA	303304	911212	W	1.37
East Baton Rouge	054	EXXON MOBIL	-8999Z	MW-1	CRA, INC.	18	PLUGGED	2	06/05	3.49	06/27/05	112MRVA C	303328	911025	D W	2.57
East Baton Rouge	054	EXXON MOBIL	-9000Z	MW-2	CRA, INC.	18	PLUGGED	2	06/05	3.18	06/27/05	112MRVA C	303328	911025	D W	2.57
East Baton Rouge	054	EXXON MOBIL	-9001Z	MW-3	CRA, INC.	18	PLUGGED	2	06/05	3.83	06/27/05	112MRVA C	303329	911025	D W	2.57
East Baton Rouge	054	EXXON MOBIL	-9002Z	MW-4	CRA, INC.	18	PLUGGED	2	06/05	3.85	06/27/05	112MRVA C	303329	911024	D W	2.58
East Baton Rouge	056	DELTECH CORP.	-9170Z	MW-28	WALKER-HILL(CO)	58	MONITOR	2	07/06	10	07/21/06	112MRVA	303305	911213	D W	1.34
East Baton Rouge	056	DELTECH CORP.	-9171Z	MW-29	WALKER-HILL(CO)	58	MONITOR	2	07/06	10	07/21/06	112MRVA	303304	911214	D W	1.35
East Baton Rouge	056	DELTECH CORP.	-9172Z	MW-30	WALKER-HILL(CO)	37	MONITOR	2	07/06	10	07/21/06	112MRVA	303306	911210	D W	1.35
East Baton Rouge	044	NPC SERVICES	-9214Z	PBB-1737-3	LEE, PETER B.	95	PLUGGED	2	01/97			112GZNO	303439	911429		1.68
East Baton Rouge	044	NPC SERVICES	-9236Z	P-1227-1	LEE, PETER B.	103	PIEZOMETER	2	11/06	18	12/07/06	112GZNO	303448	911434	D W	1.83
East Baton Rouge	044	NPC SERVICES	-9237Z	P-1327-1	LEE, PETER B.	95	PIEZOMETER	2	11/06	19	12/21/06	112GZNO	303447	911436	D W	1.85
East Baton Rouge	044	NPC SERVICES	-9238Z	P-1627-1	LEE, PETER B.	104	PIEZOMETER	2	11/06	17	12/07/06	112GZNO	303445	911438	D W	1.86
East Baton Rouge	044	NPC SERVICES	-9239Z	P-1737-3R	LEE, PETER B.	97	PIEZOMETER	2	10/06	16	12/06/06	112GZNO	303439	911429	D W	1.68
West Baton Rouge	061	CHEVRON	-5017Z	FARWEL L 4	BROWN, H.	185	PLUGGED		09/82			112MRVA	303250	911513		2.69

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

North

0 500
FEET

LEGEND

1,000 FOOT RADIUS AROUND FACILITY

CLEAN HARBORS PROPERTY BOUNDARY

PERMITTED AREA

NOTES

1. AERIAL PHOTOGRAPH OBTAINED FROM GULF COAST AERIAL MAPPING WAS TAKEN ON MARCH 6, 2007.

REFERENCE DRAWINGS

REV.	DESCRIPTION	BY	DRAWN	BY	DATE	APPR.

ECO EcoScience Resource Group L.L.C.
11827 Sunray Avenue
Baton Rouge Louisiana 70816
Tel. 225/755-8844
Fax. 225/755-8845

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DRAWN	CHECKED	SCALE	DATE
MDH	TM	1"=500'	12/11/07

TITLE

AERIAL MAP – 1000 FOOT RADIUS
CLEAN HARBORS BATON ROUGE, LLC
BATON ROUGE, LA

DRAWING NO. 100

REV.

North

0 1200
FEET

LEGEND

- 2-MILE RADIUS FROM CENTER OF FACILITY
- CLEAN HARBORS PROPERTY BOUNDARY
- PERMITTED AREA
- RESIDENTIAL
- INDUSTRIAL/REFINERY
- PUBLIC (SCHOOL, PARK, CHURCH, CORRECTION FACILITY)
- COMMERCIAL
- RURAL

NOTES

1. AERIAL PHOTOGRAPH OBTAINED FROM GULF COAST AERIAL MAPPING WAS TAKEN ON MARCH 6, 2007.

REFERENCE DRAWINGS

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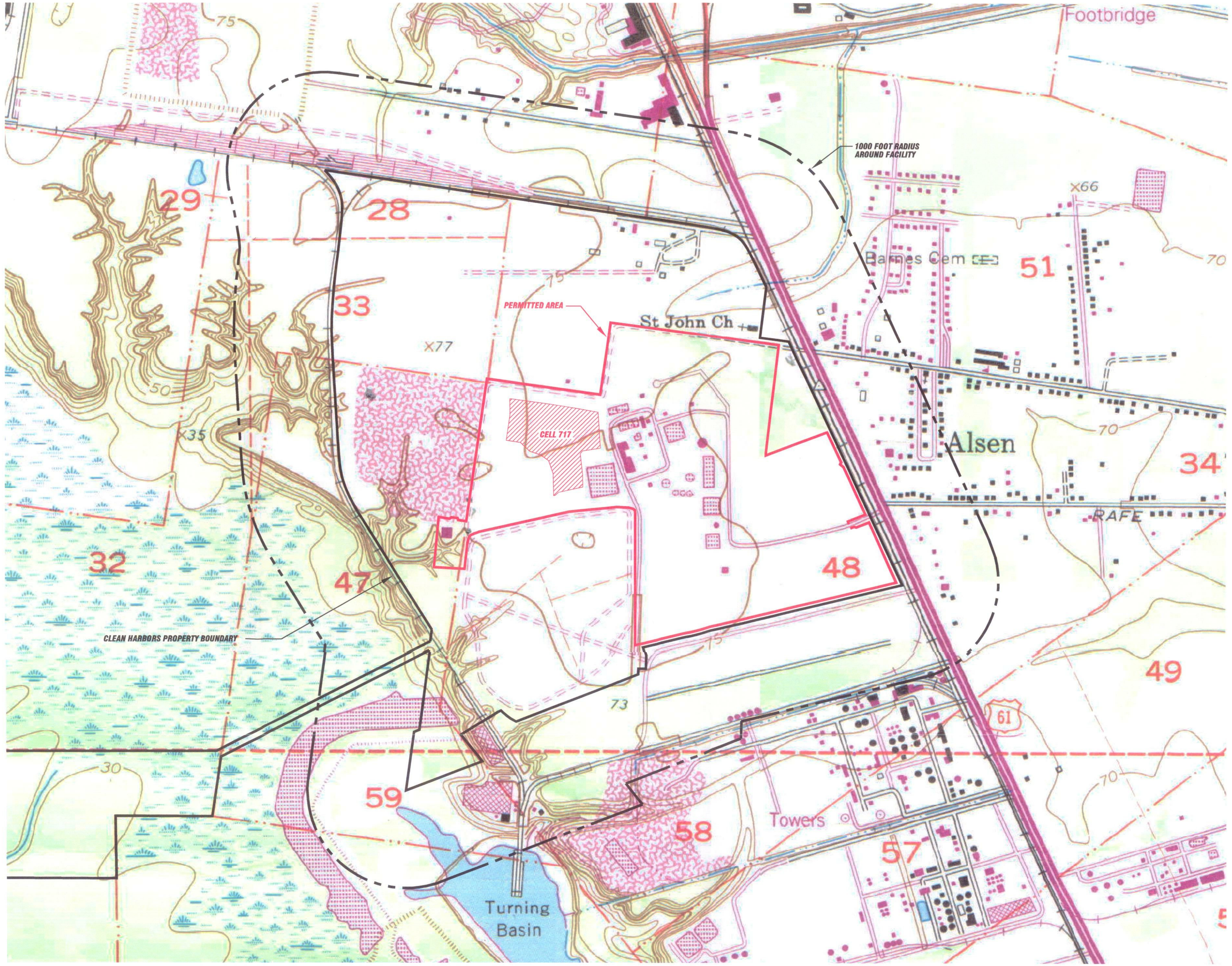
DRAWN	CHECKED	SCALE	DATE
MDH	TM	1"=1200'	12/11/07

TITLE

AERIAL MAP – LAND USE
CLEAN HARBORS BATON ROUGE, LLC
BATON ROUGE, LA

DRAWING NO. 101

REV.



North

0 500
FEET

LEGEND

- 1,000 FOOT RADIUS AROUND FACILITY
- CLEAN HARBORS PROPERTY BOUNDARY
- PERMITTED AREA
- 75 — CONTOUR MEAN SEA LEVEL
- HOUSES AND BUILDINGS
- MEDIUM DUTY ROADS
- LIGHT DUTY ROADS
- DIRT ROADS

NOTES

1. MAP ADAPTED FROM U.S.G.S. 7.5 MINUTE QUADRANGLE SHEET SCOTLANDVILLE, LA (1994).
2. THE TOPOGRAPHIC BACKGROUND MAP WAS PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS TAKEN IN 1952. TOPOGRAPH BY PLANETABLE SURVEYS 1953-54 AND REVISED IN 1963. REVISIONS SHOWN IN PURPLE COMPILED IN COOPERATION WITH STATE OF LOUISIANA AGENCIES FROM AERIAL PHOTOGRAPHS TAKEN 1989-90 AND OTHER SOURCES. MAP EDITED 1994.
3. SINCE NO REVISIONS HAVE BEEN MADE TO THE TOPOGRAPHIC FEATURES OF THIS BACKGROUND MAP AFTER 1963, DRAWING 104 IS A BETTER REPRESENTED OF THE ACTUAL ELEVATIONS AND CONTOURS AT THE CLEAN HARBORS BATON ROUGE FACILITY.

REFERENCE DRAWINGS

REV.	DESCRIPTION	BY	DRAWN BY	DATE	APPR.

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Tel. 225/755-8844
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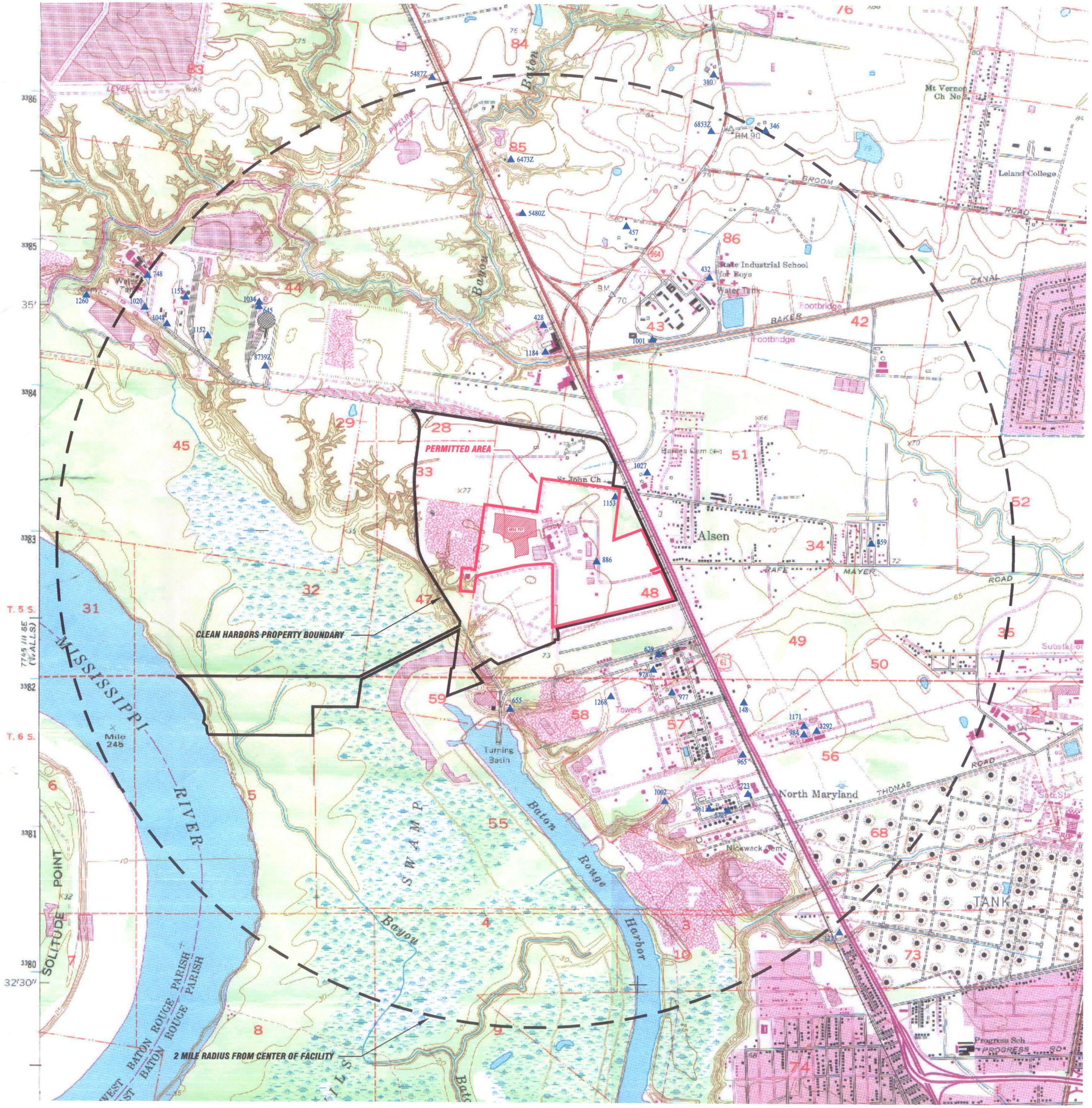
DRAWN	CHECKED	SCALE	DATE
MDH	TM	1"=500'	12/11/07

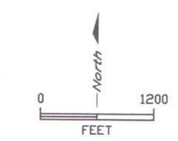
TITLE

TOPOGRAPHIC MAP – 1000 FOOT RADIUS
CLEAN HARBORS BATON ROUGE, LLC
BATON ROUGE, LA

DRAWING NO. 102

REV.





LEGEND

- 2-MILE RADIUS FROM CENTER OF FACILITY
- CLEAN HARBORS PROPERTY BOUNDARY
- PERMITTED AREA
- 75 — CONTOUR MEAN SEA LEVEL
- HOUSES AND BUILDINGS
- MEDIUM DUTY ROADS
- LIGHT DUTY ROADS
- DIRT ROADS
- 659 ▲ WATER WELL

NOTES

1. MAP ADAPTED FROM U.S.G.S. 7.5 MINUTE QUADRANGLE SHEET SCOTLANDVILLE, LA (1994).
2. THE TOPOGRAPHIC BACKGROUND MAP WAS PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS TAKEN IN 1952. TOPOGRAPH BY PLANETABLE SURVEYS 1953-54 AND REVISED IN 1963. REVISIONS SHOWN IN PURPLE COMPILED IN COOPERATION WITH STATE OF LOUISIANA AGENCIES FROM AERIAL PHOTOGRAPHS TAKEN 1989-90 AND OTHER SOURCES. MAP EDITED 1994.
3. SINCE NO REVISIONS HAVE BEEN MADE TO THE TOPOGRAPHIC FEATURES OF THIS BACKGROUND MAP AFTER 1963, DRAWING 104 IS A BETTER REPRESENTED OF THE ACTUAL ELEVATIONS AND CONTOURS AT THE CLEAN HARBORS BATON ROUGE FACILITY.

REFERENCE DRAWINGS

REV.	DESCRIPTION	BY	DRAWN BY	DATE	APPR.

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MDH	TM	1"=1200'	12/11/07

TITLE

TOPOGRAPHIC MAP WATER WELL LOCATIONS
CLEAN HARBORS BATON ROUGE, LLC
BATON ROUGE, LA

DRAWING NO. 103

REV.

LEGEND

SURFACE WATER FLOW

CONTOUR LINES

ITEM	DESCRIPTION
(DP-1)	DIVERSION POINT OVERFLOW OUTLET
(DP-2)	DIVERSION POINT BETWEEN RW-3 OR OUTFALL DITCH
(DP-3)	DIVERSION POINT BETWEEN RW-3 OR OUTFALL DITCH
(DP-4)	DIVERSION POINT BETWEEN RW-4 OR OUTFALL DITCH
(DP-5)	DIVERSION POINT BETWEEN RW-5 OR WEIR-002
(DP-6)	DIVERSION POINT BETWEEN RW-3 OR OUTFALL DITCH

NOTES

1. CONTOURS SHOWN ARE BASED ON AERIAL PHOTOGRAPHY TAKEN IN MARCH 1990.
2. ALL ELEVATIONS SHOWN ON THE DRAWING ARE BASED ON PLANT DATUM (PD). TO CONVERT PD TO NATIONAL GEODETIC SURVEY "1982" ADJUSTED DATUM, 3.09 FEET MUST BE SUBTRACTED FROM ALL ELEVATIONS.

REFERENCE DRAWINGS

REV.	DESCRIPTION	DRAWN BY	DATE	APPR. BY

ECO EcoScience Resource Group L.L.C.

Evolving to meet tomorrow's challenges

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DRAWN	CHECKED	SCALE	DATE
MDH	JS	1"=200'	10/6/03

TITLE — DRAWING 104

TOPOGRAPHIC MAP SURFACE WATER FLOW
CLEAN HARBORS BATON ROUGE, LLC
BATON ROUGE, LA

DRAWING NO. 104 — REV.

LEGEND – FOR GENERAL AREA

ITEM	DESRIPTION
1	001 Flow Metering and Sampling Building
2	001 Outfall – (Closed Rerouted to Miss. River)
3	002 Outfall
4	Allied Tract
5	Bulk Chemical Storage Tanks (FeCl3 & HCl)
6	Cell 717 (Closed)
7	Cell 901 (Closed)
8	Cell 902 (Closed)
9	Basin 302 (Closed)
10	Cell 904 (Active)
11	Change House
12	Container Storage Pad (Non–Hazardous)
13	Container Storage Pavilion (TSF)
14	TSF 10 Day Storage
16	Contractors Plant Vehicle Parking
17	Maintenance Laydown Yard
18	Dolly Down (Truck Parking)
19	Drum Storage Area (Pads A–F)
20	Fire Station/ICS Center
21	Fuel Island
22	Guard House
23	High Pressure Tank Farm (Partial Closure)
24	Hy–Purle (Closed)
28	Laboratory
29	Laboratory Sample Rack
30	Landfarm Area (Closed)
31	Leachate Tank (TK–6039)
32	Main Entrance Gate
33	Main Office Building (Administration)
34	Maintenance Shop
35	Metals Recovery Unit
36	Motor Control Center Building (Wastewater Treatment Area)
37	Natural Gas Station
38	Nitrogen Tank
39	Office Trailers
40	Process and Fire Water Tank
41	Process Water Well
42	Rail Car Unloading Containment Area (10 Day Storage)
43	Rail Car Unloading Station
44	Rain Water Basin RW–1
45	Rain Water Basin RW–2
46	Rain Water Basin RW–3
47	Rain Water Basin RW–4
48	Rain Water Basin RW–5
49	General Goods Warehouse
50	Repack/Decanning Area
51	Repack Shredder (Partial Closure)
52	Scale House
53	South Landfill Area (Closed)
54	Stabilization and Encapsulation Facility (TK–7002)
55	Direct Burn Pads North & South
56	Sussex Corporation
57	Sussex Offices and Lunch Room
58	Switchgear (Outdoor)
59	Truck Scale
60	Wash Rack/Transfer Facility – CET (Closed)
61	Wastewater Treatment Area
62	Weir
63	Western Tract
64	CET – 10 Day Storage

REFERENCE DRAWINGS

REV.	DESCRIPTION	BY	DRAWN BY	DATE	APPR.

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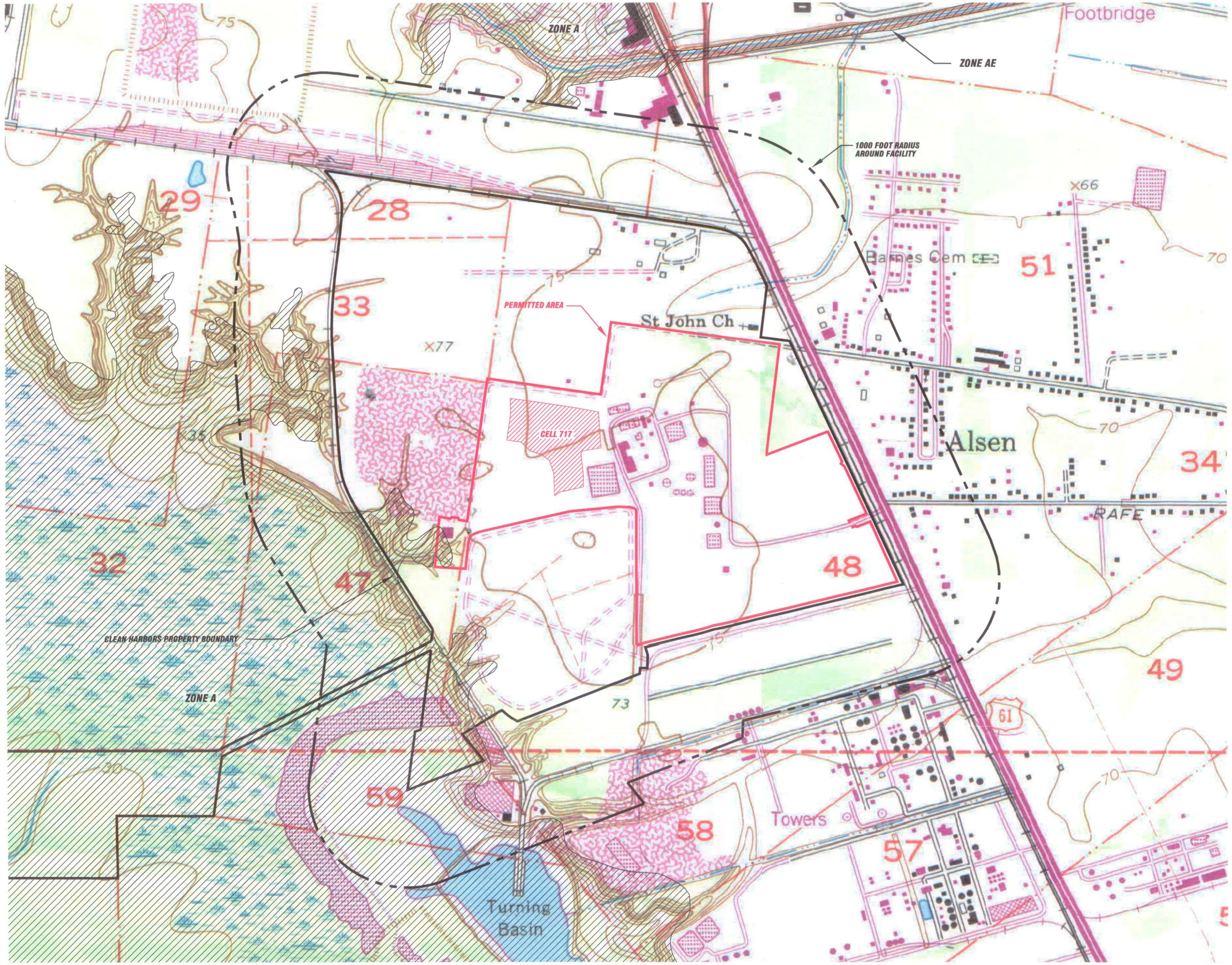
MDH	TM	1"=200'	12/11/07

TITLE

FACILITY PLOT PLAN AS OF DEC. 2007
CLEAN HARBORS BATON ROUGE, LLC
BATON ROUGE, LA

DRAWING NO. 105

REV.



North

0 500 FEET

LEGEND

- 1,000 FOOT RADIUS AROUND FACILITY
- CLEAN HARBORS PROPERTY BOUNDARY
- PERMITTED AREA
- 75 CONTOUR MEAN SEA LEVEL
- HOUSES AND BUILDINGS
- MEDIUM DUTY ROADS
- LIGHT DUTY ROADS
- DIRT ROADS

FLOOD ZONE EXPLANATION

SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD

ZONE A	No base flood elevation determined
ZONE AH	Base flood elevations determined
ZONE AE	Flood depth of 1-3 feet (usually areas of ponding); Base flood elevations determined.
ZONE AO	Flood depth of 1-3 feet (usually sheet flow on sloping; terrain); average depth determined. For areas of alluvial fan flooding; velocities also determined.
ZONE A99	To be protected from 100-year flood by Federal flood protection system under construction; no base flood elevation determined.
ZONE V	Coastal flood with velocity hazard (wave action); no base flood elevations determined.
ZONE VE	Coastal flood with velocity hazard (wave action); base flood elevations determined.

OTHER AREAS

ZONE X	Areas determined to be outside of 500-year flood-plain.

NOTES

1. MAP ADAPTED FROM U.S.G.S. 7.5 MINUTE QUADRANGLE SHEET SCOTLANDVILLE, LA (1994).
2. THE TOPOGRAPHIC BACKGROUND MAP WAS PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS TAKEN IN 1952. TOPOGRAPH BY PLANETABLE SURVEYS 1953-54 AND REVISED IN 1963. REVISIONS SHOWN IN PURPLE COMPILED IN COOPERATION WITH STATE OF LOUISIANA AGENCIES FROM AERIAL PHOTOGRAPHS TAKEN 1989-90 AND OTHER SOURCES. MAP EDITED 1994.
3. SINCE NO REVISIONS HAVE BEEN MADE TO THE TOPOGRAPHIC FEATURES OF THIS BACKGROUND MAP AFTER 1963, DRAWING 104 IS A BETTER REPRESENTED OF THE ACTUAL ELEVATIONS AND CONTOURS AT THE CLEAN HARBORS BATON ROUGE FACILITY.
4. THE FLOOD ZONES DEPICTED ON THIS DRAWING ARE BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAPS (FIRM) COMMUNITY PANEL NUMBER 220058 0060 D REVISED MAY 17, 1993.

REFERENCE DRAWINGS

REV.	DESCRIPTION	BY	DRAWN BY	DATE	APPR.

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DRAWN	CHECKED	SCALE	DATE
MDH	TM	1"=500'	12/11/07

TITLE

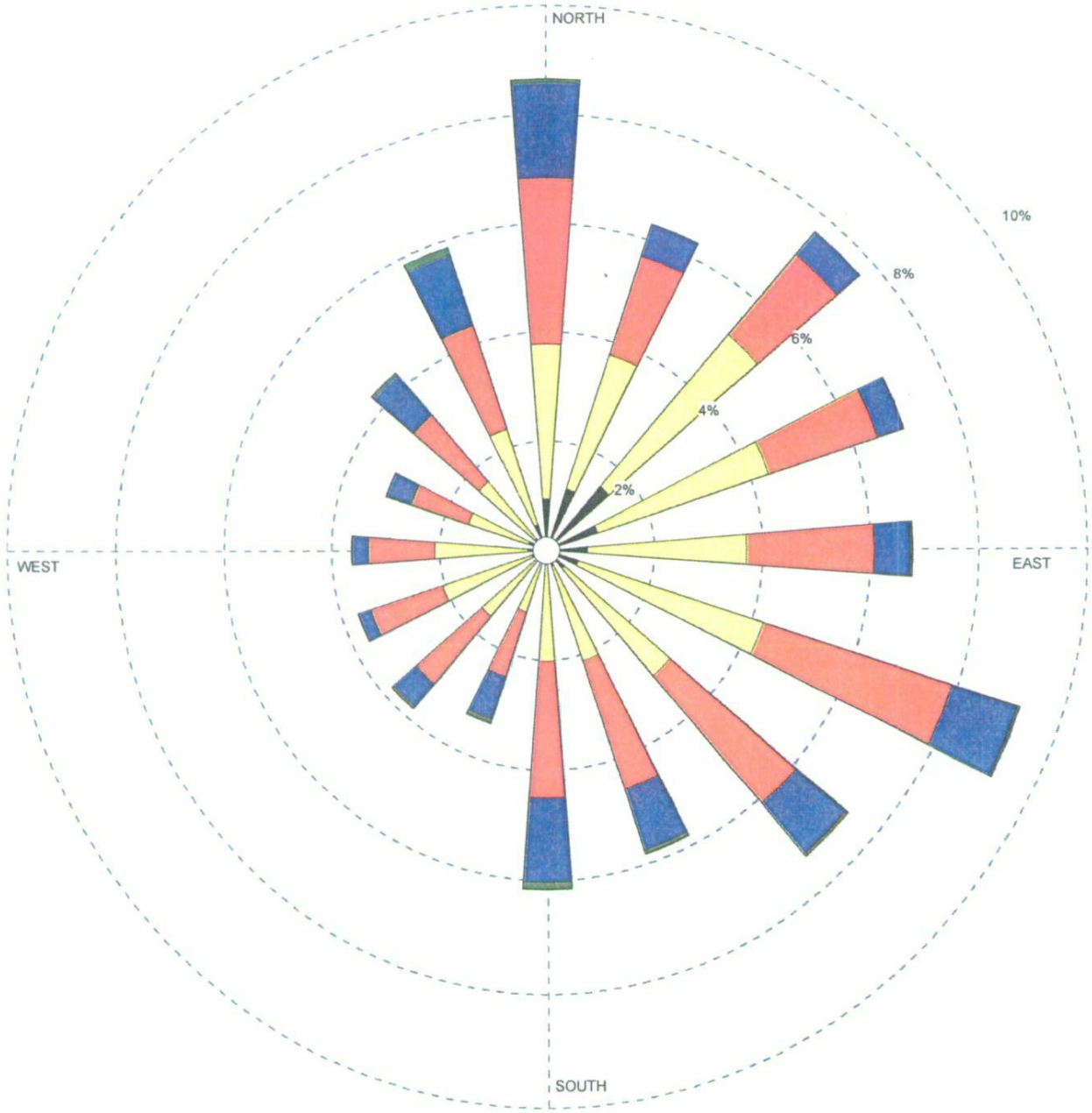
TOPOGRAPHIC MAP – 100 YEAR FLOOD MAP
CLEAN HARBORS BATON ROUGE, LLC
BATON ROUGE, LA

DRAWING NO. 106

REV.

WIND ROSE PLOT

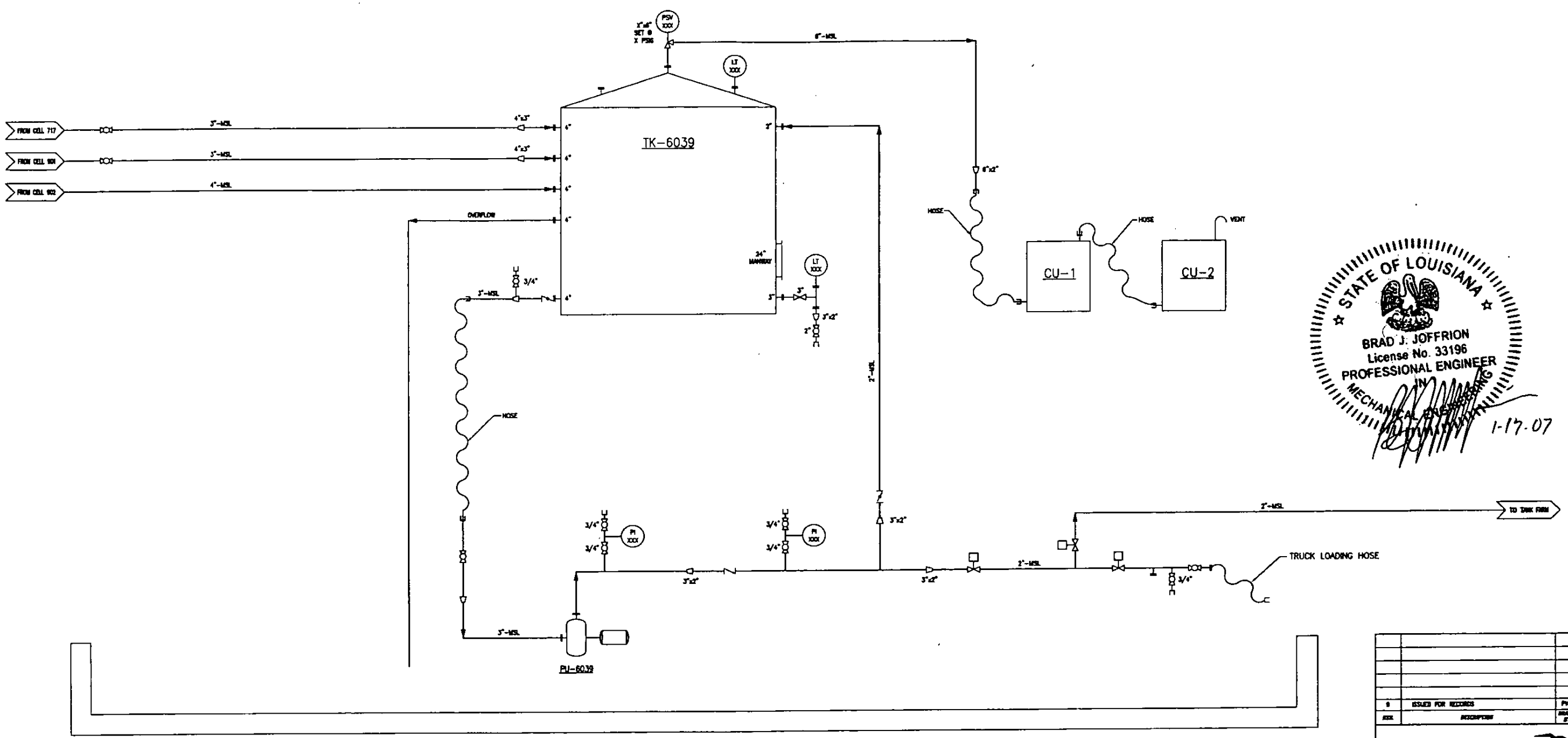
OBSERVATIONS IN - BATON ROUGE/RYAN AIRPORT, LA



Wind Speed (Knots)	MODELER	DATE	COMPANY NAME
› 21 17 - 21 11 - 16 7 - 10 4 - 6 1 - 3	**EcoScience Staff**	**10/13/03**	**EcoScience Resource Group**
	DISPLAY **Wind Speed**	UNIT **Knots**	COMMENTS **Source:** • **U. S. Department of Commerce** • **National Oceanic and Atmospheric Administration** • **National Weather Service** **Published May 2003**
	AVG. WIND SPEED **7.24 Knots**	CALM WINDS **7.25%**	
	ORIENTATION **Direction (blowing from)**	PLOT YEAR-DATE-TIME **1989-2002**	PROJECT/PLOT NO. **Clean Harbors** **Baton Rouge, LA** **Drawing 110**

TK-6039
LEACHATE COLLECTION TANK
TANK CAPACITY: 12,878 GAL
DESIGN PRESSURE: 0.3 PSIG

CU-1/2
CARBON FILTERS



PU-6039
LEACHATE COLLECTION TANK PUMP
CAPACITY: 100 GPM
POWER : 5 HP
HEAD: 35 FT
SIZE: 2x3-10

NOTES:
1. THIS P&ID IS AN AS-BUILT FOR RECORDS ONLY. PROCESS DESIGN BY OTHERS.

STATE OF LOUISIANA
BRAD J. JOFFRION
License No. 33196
PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
1-17-07

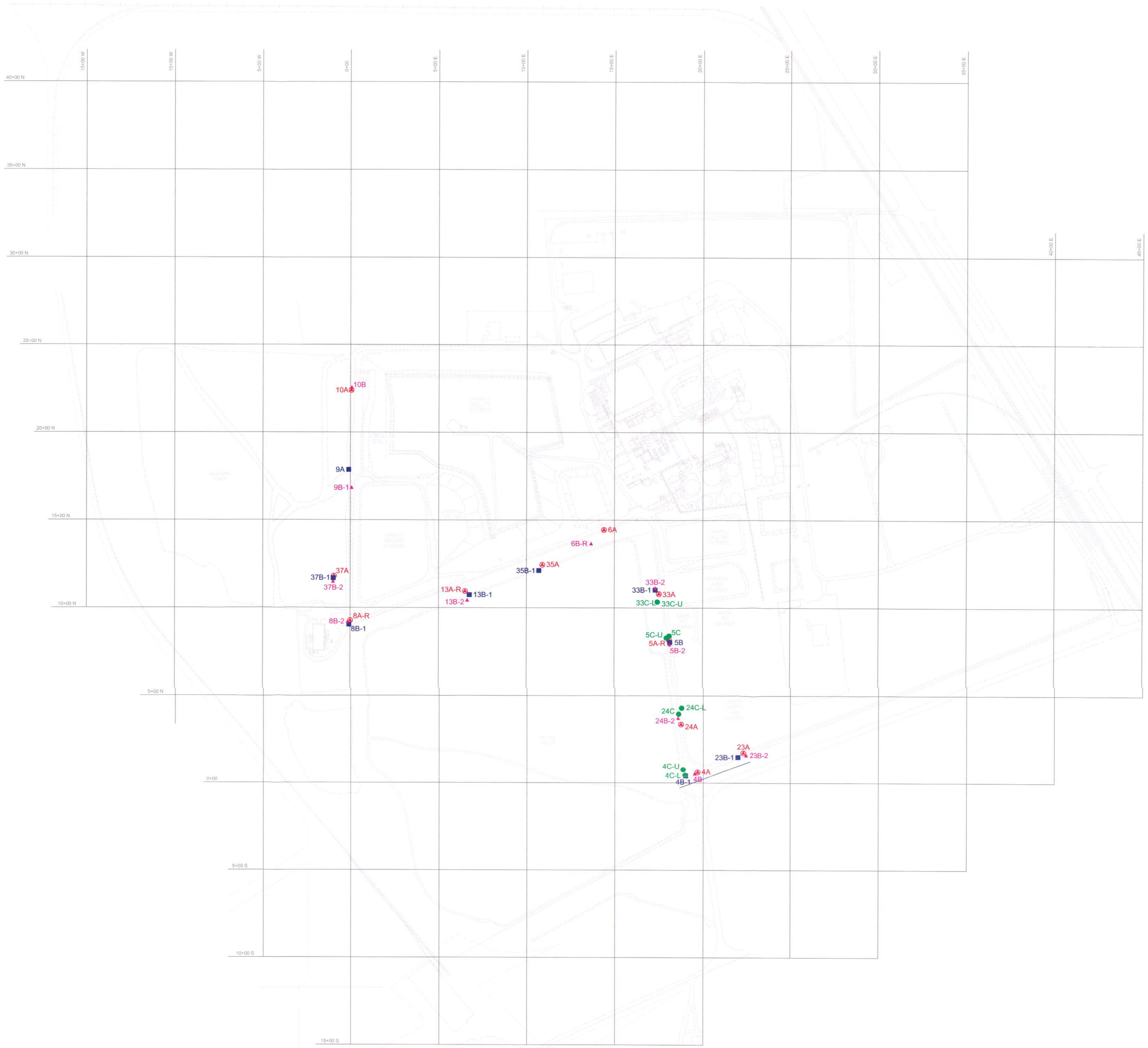
REV.	DESCRIPTION	DRAWN BY	DATE	APPR. BY
0	ISSUED FOR RECORDS	PKA	1/08	-

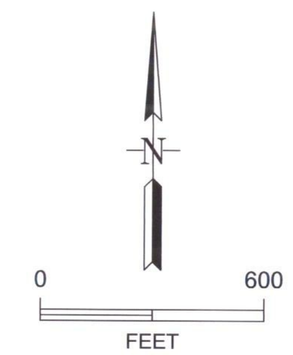
CleanHarbors

DRAWN	DESIGNED	SCALE	DATE
PKA	EJF	NONE	1/17/08

TITLE
LEACHATE COLLECTION
CLEAN HARBORS BATON ROUGE LLC
BATON ROUGE, LA
PIPING & INSTRUMENTATION DIAGRAM

DRAWING NO. 200 REV. 0





LEGEND

10A	UNIT 3 (A-ZONE) COMPLIANCE POINT WELL
9A	UNIT 4 (B1-ZONE) COMPLIANCE POINT WELL
10B	UNIT 6 (B2-ZONE) COMPLIANCE POINT WELL
5C	UNIT 8 (C-ZONE) COMPLIANCE POINT WELL

FIGURE REFERENCE:
FIGURE VI-2 OF FINAL MODIFIED PERMIT
LAD010395127-P AS UPDATED IN EACH
SEMI-ANNUAL AND ANNUAL GROUND WATER REPORT.

	BY	DATE
DRAWN	PO	8/09/06
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REVISED	JRB	8/14/07
REVISED	JRB	1/15/08
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APPROVED		

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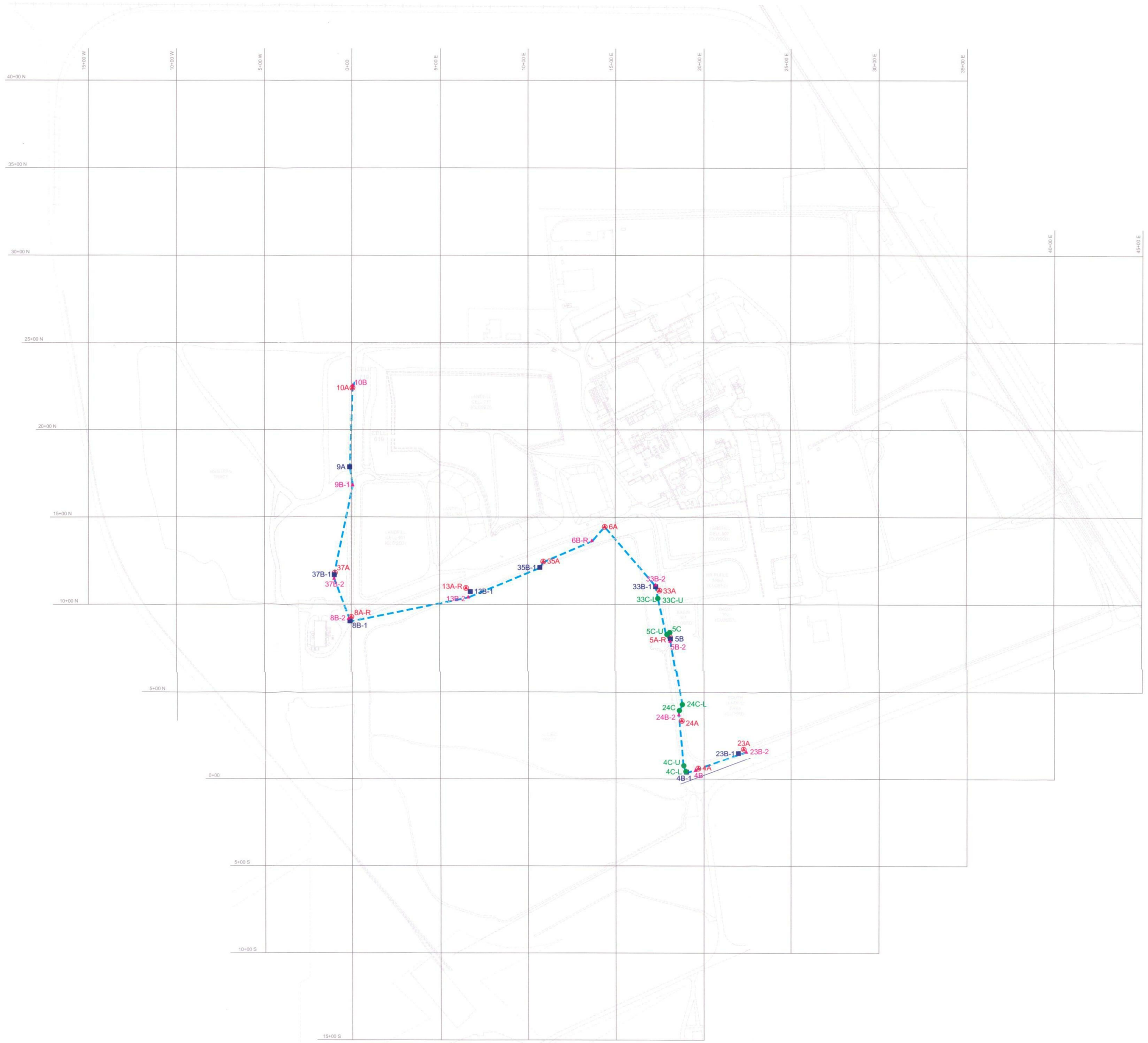
BOULDER, COLORADO 80301
PHONE: (303) 938-5500
FAX: (303) 938-5520
http://www.cameron-cole.com

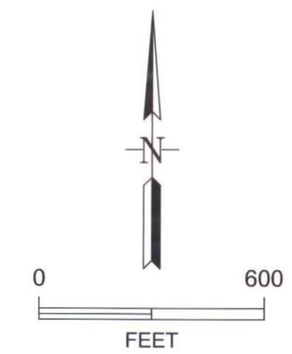
FIGURE 2

COMPLIANCE POINT WELLS
CLEAN HARBORS BATON ROUGE, LLC

SCALE: 1" = 300'
PROJECT: 1814

G:\Drafting\1814-Baton Rouge\2007 Ist Semi Annual\Figure 2.dwg





LEGEND

10A	UNIT 3 (A-ZONE) COMPLIANCE POINT WELL
9A	UNIT 4 (B1-ZONE) COMPLIANCE POINT WELL
10B	UNIT 6 (B2-ZONE) COMPLIANCE POINT WELL
5C	UNIT 8 (C-ZONE) COMPLIANCE POINT WELL
- - -	POINT OF COMPLIANCE

FIGURE REFERENCE:
FIGURE VI-2 OF FINAL MODIFIED PERMIT
LAD010395127-P AS UPDATED IN EACH
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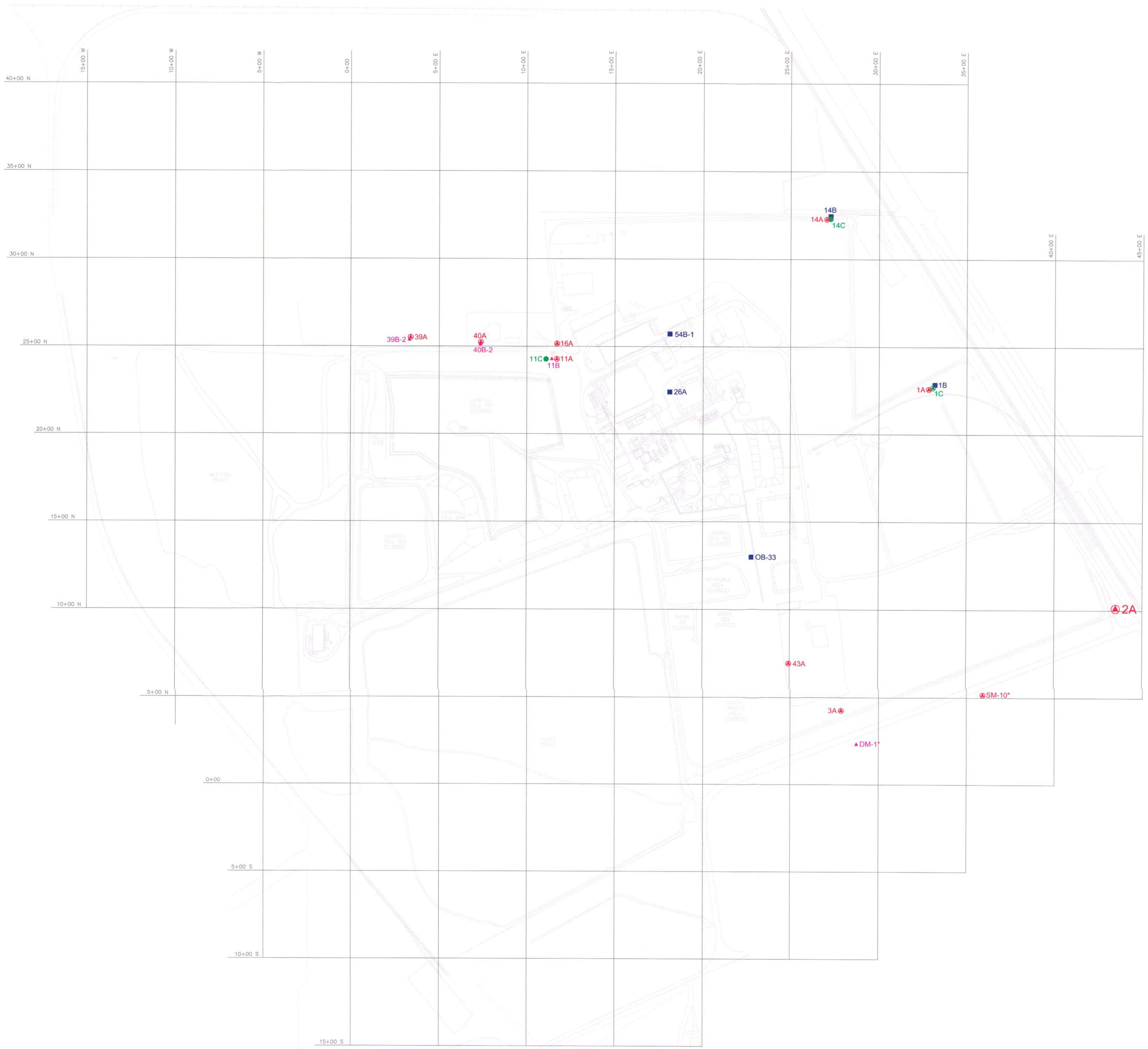
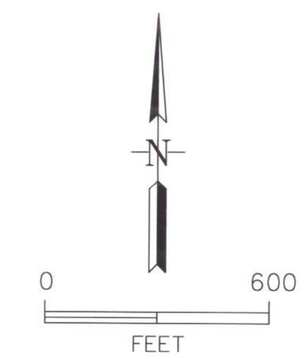
FIGURE 2A

POINT OF COMPLIANCE
CLEAN HARBORS BATON ROUGE, LLC

SCALE: 1" = 300'
PROJECT: 1814

G:\Drafting\1814-Baton Rouge\2007 1st Semi Annual\Figure 2.dwg





LEGEND

39A	UNIT 3 (A-ZONE) MONITOR WELL
26A	UNIT 4 (B1-ZONE) MONITOR WELL
11B	UNIT 6 (B2-ZONE) MONITOR WELL
11C	UNIT 8 (C-ZONE) MONITOR WELL
*	INDICATES WELL ON EXXONMOBIL PROPERTY

FIGURE REFERENCE:
FIGURE VI-2 OF FINAL MODIFIED PERMIT
LAD010395127-P AS UPDATED IN EACH
SEMI-ANNUAL AND ANNUAL GROUND WATER REPORT.

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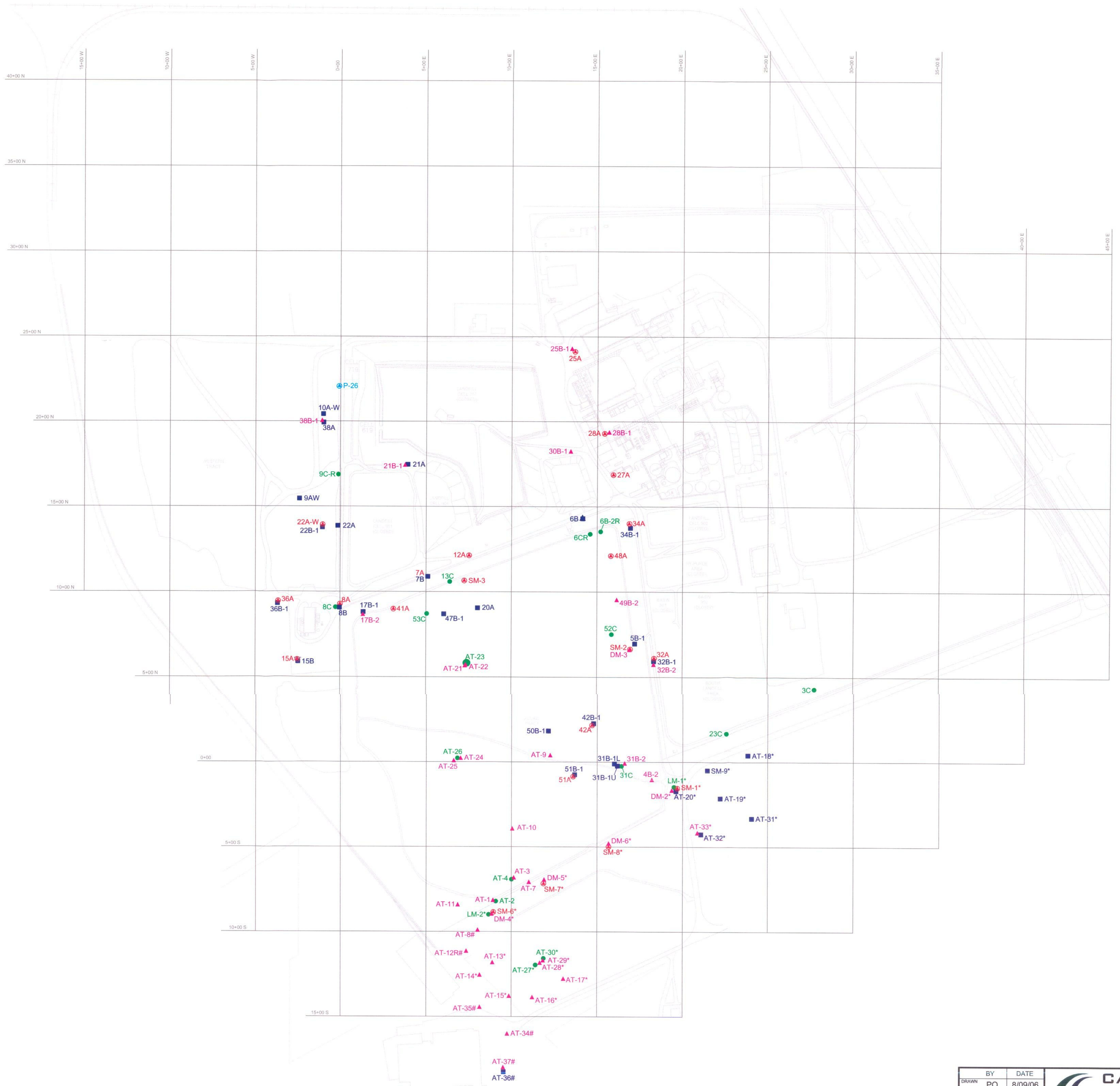
FIGURE 3

COMPLIANCE WELLS UPGRADIENT
CLEAN HARBORS BATON ROUGE, LLC

SCALE: 1" = 300'
PROJECT: 1814

G:\Drafting\1814-Baton Rouge\2007 1st Semi Annual\Figure 3.dwg



N

0 600
FEET

LEGEND

12A	UNIT 3 (A-ZONE) MONITOR WELL
22A	UNIT 4 (B1-ZONE) MONITOR WELL
4B-2	UNIT 6 (B2-ZONE) MONITOR WELL
3C	UNIT 8 (C-ZONE) MONITOR WELL
P-26	NO PERMEABLE UNIT INDICATED IN SOIL BORING LOCATION
*	INDICATES WELL ON EXXON/MOBIL PROPERTY
#	INDICATES WELL ON GBPRC PROPERTY

FIGURE REFERENCE:
FIGURE VI-2 OF FINAL MODIFIED PERMIT
LAD010395127-P AS UPDATED IN EACH
SEMI-ANNUAL AND ANNUAL GROUND WATER REPORT.

G:\Drafting\1814-Baton Rouge\2007 1st Semi Annual\Figure 4.dwg

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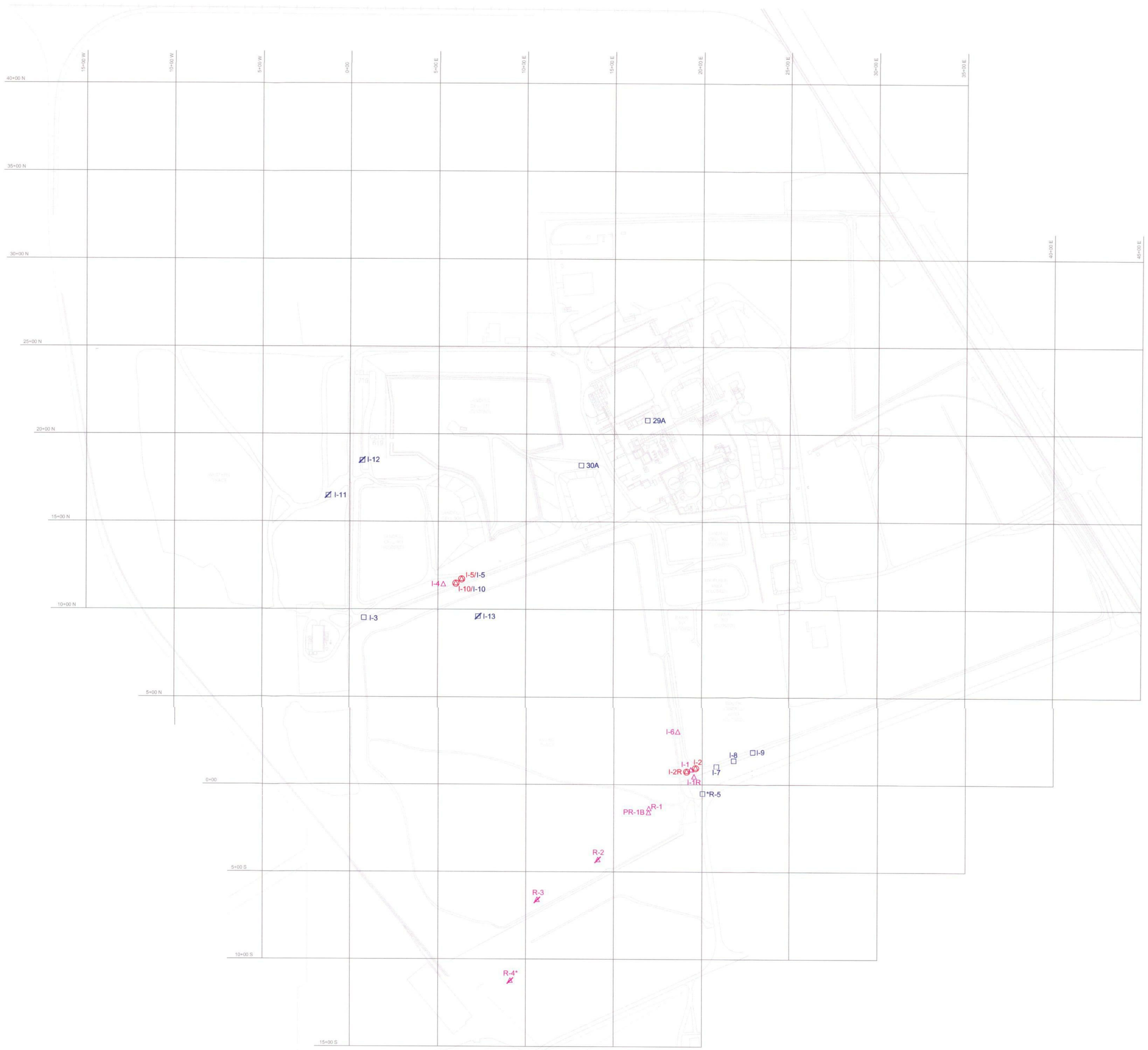
FIGURE 4

COMPLIANCE WELLS DOWNGRADIENT
CLEAN HARBORS BATON ROUGE, LLC

SCALE: 1" = 300'
PROJECT: 1814



N

0 600

FEET

LEGEND

I-2	UNIT 3 (A-ZONE) CORRECTIVE ACTION WELL
30A	UNIT 4 (B1-ZONE) CORRECTIVE ACTION WELL
I-11	UNIT 4 (B1-ZONE) CORRECTIVE ACTION WELL (INACTIVE)
I-4	UNIT 6 (B2-ZONE) CORRECTIVE ACTION WELL
R-3	UNIT 6 (B2-ZONE) CORRECTIVE ACTION WELL (INACTIVE)
*	INDICATES WELL ON EXXON/MOBIL PROPERTY

FIGURE REFERENCE:
FIGURE VI-2 OF FINAL MODIFIED PERMIT
LAD010395127-P AS UPDATED IN EACH
SEMI-ANNUAL AND ANNUAL GROUND WATER REPORT.

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FIGURE 5

CORRECTIVE ACTION WELLS
CLEAN HARBORS BATON ROUGE, LLC

SCALE: 1" = 300'

PROJECT: 1814

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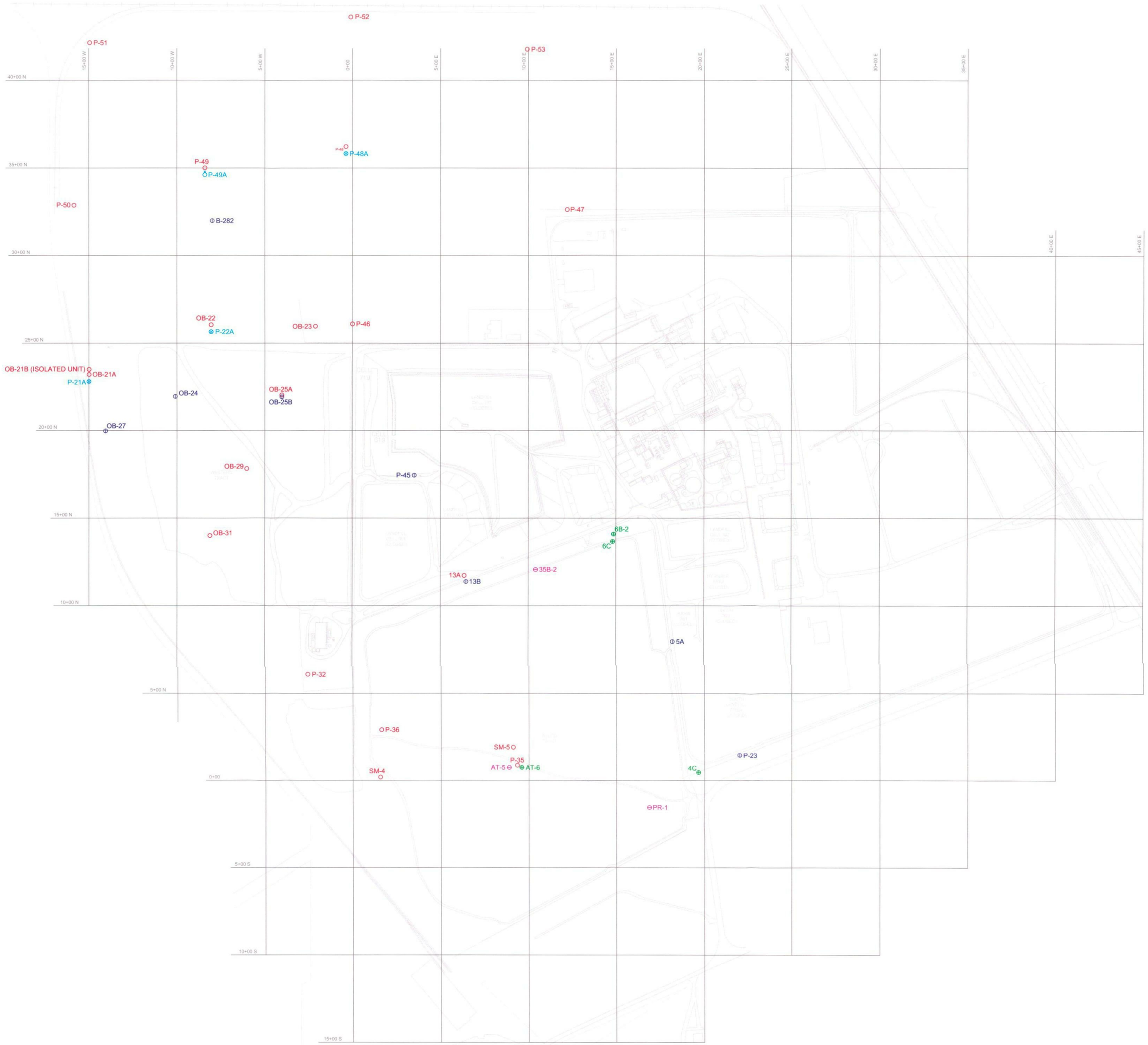

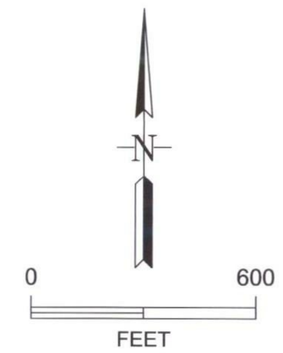

LEGEND

P-50 ○	UNIT 3 (A-ZONE) PIEZOMETER
P-45 ⦶	UNIT 4 (B1-ZONE) PIEZOMETER
35B-2 ⊖	UNIT 6 (B2-ZONE) PIEZOMETER
4C ⊕	UNIT 8 (C-ZONE) PIEZOMETER
P-21A ⊗	NO PERMEABLE UNIT INDICATED IN SOIL BORINGS

FIGURE REFERENCE:
FIGURE VI-2 OF FINAL MODIFIED PERMIT
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FIGURE 6

PIEZOMETERS
CLEAN HARBORS BATON ROUGE, LLC

SCALE: 1" = 300'
PROJECT: 1814

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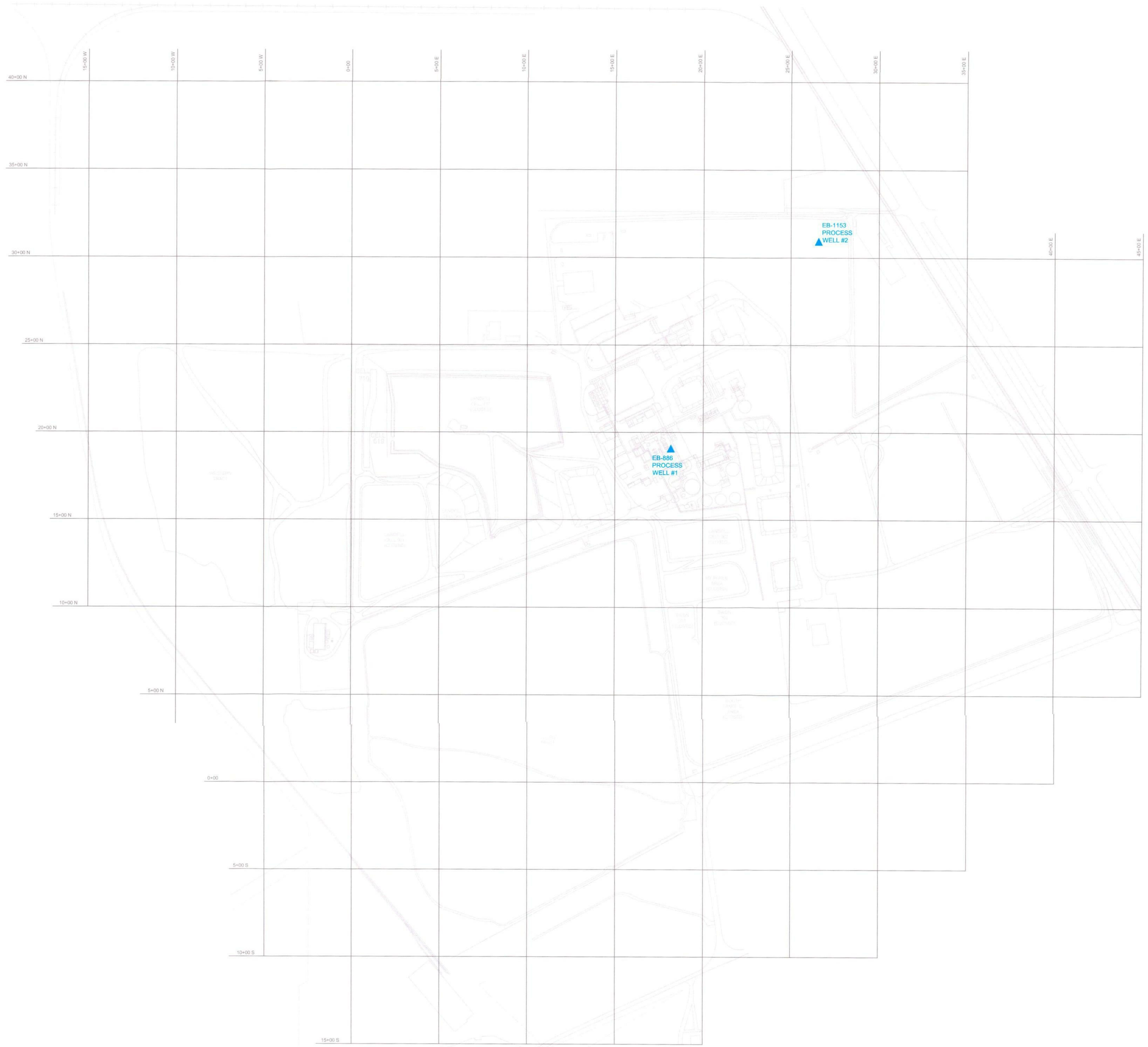

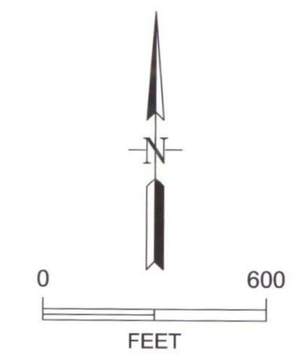

LEGEND

EB-886 ▲ PROCESS WELL

FIGURE REFERENCE:
FIGURE VI-2 OF FINAL MODIFIED PERMIT
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FIGURE 7

PROCESS WELLS
CLEAN HARBORS BATON ROUGE, LLC

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APPENDIX D

POST-CLOSURE COST ESTIMATE AND FINANCIAL ASSURANCE

Table 2-3: Post-Closure Cost Estimate	
	Annual COST ($)
Site Inspections	
Quarterly site inspections -	
Assume 4 site inspections annually (estimated cost of $1,500 for each inspection)	$ 6,000
Site Security	
Fence and Sign Maintenance -	
Assume parts and labor cost $700 annually	$ 700
Maintain Final Covers	
Mowing Vegetation Cover -	
Assume site will be mowed twice annually (estimated mowing cost of $2,000 each time)	$ 4,000
Fertilize Final Cover	
Assume site will be fertilized every ten years (estimated cost of $4,000 each time - 3 x $4000/30 years)	$ 400
Survey Disposal Areas -	
Assume landfill areas surveyed six times in 30 years (estimated cost to survey of $3,000 each time - 6 x $3,000/30 years)	$ 600
Miscellaneous Repairs -	$ 2,000
Assume miscellaneous repairs will cost $2,000 annually	
Maintain Stormwater Controls	
Clear Drainage Channels -	
Blocked channels will be cleared twice annually (estimated cost of $1,000 each time)	$ 2,000
Maintain Surveyed Benchmarks	
Replace Benchmark -	
Assume two benchmark must be replaced during post-closure period (estimated cost of $2,000)	$ 67
Leachate Collection/Treatment	
Treatment of Leachate -	
Assume maximum of 30,000 gallons leachate generated monthly; treatment cost of $0.03/gal (30,000 x 12 x $0.03)	$ 10,800
Treatment System Overhead -	
Assume annual system overhead is $10,000 annually	$ 10,000
Treatment System Operation -	
System operator works 20 hours/week at $20/hour	$ 20,800
Sludge Disposal -	
Assume off-site disposal costs of $3000 annually	$ 3,000
Miscellaneous Repairs -	
Assume miscellaneous repairs cost $100 annually	$ 100
Leachate Collection & Removal System (LCRS) Sampling -	
35 risers will be sampled annually. Sampling time of 1 hour for each riser at $20/hour	$ 700

Table 2-3: Post-Closure Cost Estimate	
	Annual COST ($)
Sample Pick-Up Charges for LCRS -	
4 sets of samples picked up for analyses at $50 each time for each set	$ 200
Sample Analysis for LCRS -	
Analysis of composite samples for compliance monitoring parameter at $500/sample	
Cell 717 - 4 composites/year x $500/sample x 5years/30years	$ 2,000
Cells 901, 902, & 904 - 3 composites/year x $500/sample x 5 years/30 years	$ 250
Leak Detection Systems (LDS)-	
Risers in system will be checked and sampled quarterly (if liquids are present). Sampling time 1 hour for each riser at $235hour	
Cell 717 - 3 risers x 4 times/year x $20/hour/riser	$ 240
Cells 901,902, & 904 - 7 risers x 4 times/year x $20/hour/riser	$ 560
Sample Pick-Up Charges for LDS -	$ 800
Analysis of compliance monitoring parameter at $500/sample	
Sample Analysis Charges for LDS -	
Analysis of compliance monitoring parameter at $500/sample	
Cell 717 - 3 risers x 4 times/year x $500/sample	$ 6,000
Cells 901,902, & 904 - 7 risers x 4 times/year x $500/sample x 5 years/30 years	$ 2,334
Groundwater Monitoring	
Monitor Well Sampling -	
157 wells in compliance monitoring network will be sampled biannually, sampling time of 1 hour for each well at $20/hour	$ 6,280
Sample Pick-Up Charges -	
Samples picked-up for analysis bi-annually at $50 each time. (157 wells/8 wells/day x 2 x $50)	$ 1,965
Sample Analysis -	
Analysis of compliance monitoring parameters (157 x 2 x $500/sample)	$ 157,000
Flow Rate/Direction -	
Analysis of flow rate and direction monitoring (assumed to cost 2 x $1500/each time)	$ 3,000
Data Analysis and Report -	
Assume data analysis and reports costs $6,000 annually	$ 6,000
Miscellaneous Repairs -	
Assume miscellaneous repairs costs $1000 annually	$ 1,000
SUB-TOTAL ANNUAL POST CLOSURE COST	**$ 248,796**
Contingency 10 percent	**$ 24,880**
SUB-TOTAL ANNUAL POST CLOSURE COST (1994)	**$ 273,676**

Table 2-3: Post-Closure Cost Estimate	
	Annual COST ($)
1994 30-year Post Closure Cost	$ 8,210,280
Adjusted for Inflation: 2003 30-yr Post Closure Cost	$ 9,554,454
Adjusted for Inflation: 2007 30-yr Post Closure Cost	$ 10,564,590

CleanHarbors®
ENVIRONMENTAL SERVICES, INC.

July 30, 2007

Via Federal Express #: 8616 8508 0956

Louisiana Department of Environmental Quality
Office of Management and Finance
602 North Fifth Street
Baton Rouge, Louisiana 70802

Subject: **Closure/Post Closure Financial Assurance Requirements**
Clean Harbors Baton Rouge, LLC – Agency Interest No. 1516
Clean Harbors Plaquemine, LLC – Agency Interest No. 873
Clean Harbors Colfax, LLC – Agency Interest No. 32096
Crowley Disposal, LLC – Agency Interest No. 253

To Whom It May Concern:

In accordance with the applicable provisions of the Louisiana Administrative Code, LAC 33:V.3707.E, 3711.E, 4403.D, and 4407.D, please find enclosed original Certificates of Insurance to cover Closure and/or Post-Closure costs for the above referenced facilities. These certificates reference the updated policy (Policy No. ENC 5254310-02) and should replace the previously supplied documents. The inflated RCRA closure and post-closure cost estimates were calculated by multiplying each current cost estimate by the current annual inflation factor (1.02936). This inflation factor was calculated by dividing the annual Implicit Price Deflator (IPD) for Gross National Product (GNP) for 2006 (116.036) by the annual IPD for GNP for 2005 (112.726). These IPD's were obtained from the U.S. Department of Commerce's Bureau of Economic Analysis and were the values that existed on July 3, 2007.

Summary of Calculations by Facility:

- **Baton Rouge Disposal, LLC**
  Closure (RCRA): inflate from $3,380,840 to $3,480,102
  Post-closure (RCRA): inflate from $10,263,260 to $10,564,590

- **Clean Harbors Plaquemine, LLC**
  Closure (RCRA): increase from $214,253 to $220,544
  Post-closure (RCRA): increase from $32,139 to $33,083

- **Clean Harbors Colfax, LLC**
  Closure (RCRA): increase from $501,794 to $516,527

- **Crowley Disposal, LLC**
  Closure (RCRA): increase from $3,279,742 to $3,376,036

If there are questions related to the above information, please do not hesitate to contact me at (225) 778-3625.

Sincerely,

Tamelia C. Morton

Tamelia C. Morton
Environmental Compliance Manager
On Behalf Of
Clean Harbors Environmental Services, Inc.

cc:

Mr. Ken Michaels	Clean Harbors Colfax, LLC
Mr. John Arbuthnot	Crowley Disposal, LLC
	Clean Harbors Plaquemine, LLC
Mr. David Taylor	Clean Harbors Sr. Environmental Manager

Q: Louisiana\Closure Post Closure\jb070730

LOUISIANA CERTIFICATE OF INSURANCE
FOR CLOSURE OR POST-CLOSURE CARE

Name and Address of Insurer (herein called the "Insurer"):	Steadfast Insurance Company 1400 American Lane Schaumburg, Illinois 60196
Name and Address of Insured (herein called the "Insured"):	Clean Harbors, Inc. 42 Longwater Drive Norwell, Massachusetts 02061
Facilities Covered:	EPA Identification No. LAD 981-055-791 Clean Harbors Colfax, LLC 3763 Highway 471 Colfax, LA 71417 Closure Cost: $516,527 EPA Identification No. LAD 000-778-514 Clean Harbors Plaquemine, LLC 32655 Gracie Lane Plaquemine, LA 70764 Closure Costs: $220,544 Post Closure Costs: $33,083 EPA Identification No. LAD 010-395-127 Clean Harbors Baton Rouge, LLC 13351 Scenic Highway Baton Rouge, LA 70807 Closure Costs: $3,480,102 Post Closure Costs: $10,564,590 EPA Identification No. LAD 079-464-095 Crowley Disposal, LLC 2029 Bayou Plaquemine Road Rayne, LA 70527 Closure Costs: $3,376,036
Face Amount:	$18,190,882

Policy Number: ENC 5254310-02

Effective Date: September 6, 2006

The Insurer hereby certifies that it has issued to the Insured the policy of insurance identified above to provide financial assurance for closure and post closure for the facilities identified above. The Insurer further warrants that such policy conforms in all respects with the requirements of LAC 33:V.3707.E, 3711.E, 4403.D, and 4407.D as applicable and as such regulations were constituted on the date shown immediately below. It is agreed that any provision of the policy inconsistent with such regulations is hereby amended to eliminate such inconsistency.

Whenever requested by the administrative authority, the Insurer agrees to furnish to the administrative authority a duplicate original of the policy listed above, including all endorsements thereon.

I hereby certify that the wording of this certificate is identical to the wording specified in LAC 33:V:3719.E as such regulations were constituted on the date shown immediately below and that Insurer is authorized to conduct insurance business in the State of Louisiana.

Chris DeLauder

Chris DeLauder – Regional Vice President
Authorized Representative of: Steadfast Insurance Company
Administrative Officer
1400 American Lane
Schaumburg, IL 60196-1056

Signature of witness or notary:

Todd Brad

Date: July 27, 2007

CERTIFICATE HOLDER

ACORD™ # CERTIFICATE OF LIABILITY INSURANCE

Date: 10/26/07

PRODUCER
Willis North America, Inc.
26 Century Blvd
Nashville, TN 37214

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED
Clean Harbors Environmental Services, Inc.
and its affiliates
42 Longwater Drive
Norwell, MA 02061

INSURERS AFFORDING COVERAGE		NAIC#
INSURER A	Zurich American Insurance Company	16535-002
INSURER B	American Guarantee and Liability Insurance	26247-003
INSURER C	Steadfast Insurance Company	26387
INSURER D		
INSURER E		

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN. THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY	LIMITS	
A	GENERAL LIABILITY	GLO 9681229-01	11/1/2007	11/1/2008	EACH OCCURRENCE	$2,000,000
	X COMMERCIAL GENERAL LIABILITY				DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 100,000
	CLAIMS MADE X OCCUR				MED EXP (Any one person)	$ 5,000
	X XCU				PERSONAL & ADV INJURY	$2,000,000
	X Contractual				GENERAL AGGREGATE	$3,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:				PRODUCTS-COMP/OP AGG	$2,000,000
	POLICY X PRO-JECT LOC					
A	AUTOMOBILE LIABILITY	BAP 6681231-01	11/1/2007	11/1/2008	COMBINED SINGLE LIMIT	$5,000,000
	X ANY AUTO					
	ALL OWNED AUTOS				BODILY INJURY (Per person)	$
	SCHEDULED AUTOS					
	HIRED AUTOS				BODILY INJURY (Per accident)	$
	NON-OWNED AUTOS					
	X MCS-90				PROPERTY DAMAGE	$
	GARAGE LIABILITY				AUTO ONLY – EA ACCIDENT	$
	ANY AUTO				OTHER THAN AUTO ONLY	$
					EACH ACCIDENT	$
					AGGREGATE	$
B	EXCESS LIABILITY	AUC4275262-03	11/1/2007	11/1/2008	EACH OCCURRENCE	$10,000,000
	X OCCUR CLAIMS MADE				AGGREGATE	$10,000,000
						$
	DEDUCTIBLE					
	RETENTION $					
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	WC 9681232-01	11/1/2007	11/1/2008	X WC STATUTORY LIMITS OTHER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below				E.L. EACH ACCIDENT	$ 2,000,000
					E.L. DISEASE-EA EMPLOYEE	$ 2,000,000
					E.L. DISEASE-POLICY LIMIT	$ 2,000,000
C	OTHER Contractors Pollution Liability	PEC365668112	11/1/2007	11/1/2008	$10,000,000 $10,000,000	Each Claim All Claims

C — DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS
Environmental Impairment Liability #PLC374393607 5/1/07-5/1/08 $10,000,000 Each Claim/Aggregate

CERTIFICATE HOLDER

For Reference Purposes Only

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

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APPENDIX E

LIST OF WASTE CODES

Waste Codes Landfilled in Cell 717

D001	F008	K036	K094	P009	P060	P111	U039	U089	U139 *	U189	U242 *
D002	F009	K037	K095	P010	P061 *	P112	U040 *	U090	U140	U190	U243
D003	F010	K038	K096	P011	P062	P113	U041	U091	U141	U191	U244
D004	F011	K039	K097	P012	P063	P114	U042	U092	U142	U192	U246
D005	F012	K040	K098	P013	P064	P115	U043	U093	U143	U193	U247
D006	F017 *	K041	K099	P014	P065	P116	U044	U094	U144	U194	U248
D007	F018 *	K042	K100	P015	P066	P117 *	U045	U095	U145	U195 *	U249
D008	F019	K043	K101	P016 *	P067	P118	U046	U096	U146	U196	U328
D009	F024	K044	K102	P017	P068	P119	U047	U097	U147	U197	U353
D010	F025	K045	K103	P018	P069	P120	U048	U098	U148	U200	U359
D011	F032	K046	K104	P019	P070	P121	U049	U099	U149	U201	
D012	F034	K047	K105	P020	P071	P122	U050	U100 *	U150	U202	
D013	F035	K048	K106	P021	P072	P123	U051	U101	U151	U203	
D014	F037	K049	K107	P022	P073	U001	U052	U102	U152	U204	
D015	F038	K050	K108	P023	P074	U002	U053	U103	U153	U205	
D016	F039	K051	K109	P024	P075	U003	U054 *	U104 *	U154	U206	
D017	K001	K052	K110	P025 *	P076	U004	U055	U105	U155	U207	
D018	K002	K053 *	K111	P026	P077	U005	U056	U106	U156	U208	
D019	K003	K054 *	K112	P027	P078	U006	U057	U107	U157	U209	
D020	K004	K055 *	K113	P028	P079 *	U007	U058	U108	U158	U210	
D021	K005	K056 *	K114	P029	P080 *	U008	U059	U109	U159	U211	
D022	K006	K057 *	K115	P030	P081	U009	U060	U110	U160	U212 *	
D023	K007	K058 *	K116	P031	P082	U010	U061	U111	U161	U213	
D024	K008	K059 *	K117	P032 *	P083 *	U011	U062	U112	U162	U214	
D025	K009	K060	K118	P033	P084	U012	U063	U113	U163	U215	
D026	K010	K061	K123	P034	P085	U014	U064	U114	U164	U216	
D027	K011	K062	K124	P035 *	P086 *	U015	U065 *	U115	U165	U217	
D028	K013	K063 *	K125	P036	P087	U016	U066	U116	U166	U218	
D029	K014	K064	K126	P037	P088	U017	U067	U117	U167	U219	
D030	K015	K065	K131	P038	P089	U018	U068	U118	U168	U220	
D031	K016	K066	K132	P039	P090 *	U019	U069	U119	U169	U221	
D032	K017	K067 *	K136	P040	P092	U020	U070	U120	U170	U222	
D033	K018	K068 *	K141	P041	P093	U021	U071	U121	U171	U223	
D034	K019	K069	K142	P042	P094	U022	U072	U122	U172	U224 *	
D035	K020	K071	K143	P043	P095	U023	U073	U123	U173	U225	
D036	K021	K073	K144	P044	P096	U024	U074	U124	U174	U226	
D037	K022	K078 *	K145	P045	P097	U025	U075	U125	U175 *	U227	
D038	K023	K079 *	K147	P046	P098	U026	U076	U126	U176	U228	
D039	K024	K080 *	K148	P047	P099	U027	U077	U127	U177	U229 *	
D040	K025	K081 *	K149	P048	P100 *	U028	U078	U128	U178	U230 *	
D041	K026	K082 *	K150	P049	P101	U029	U079	U129	U179	U231 *	
D042	K027	K083	K151	P050	P102	U030	U080	U130	U180	U232 *	
D043	K028	K084	P001	P051	P103	U031	U081	U131	U181	U233 *	
F001	K029	K085	P002	P052 *	P104	U032	U082	U132	U182	U234	
F002	K030	K086	P003	P053 *	P105	U033	U083	U133	U183	U235	
F003	K031	K087	P004	P054	P106	U034	U084	U134	U184	U236	
F004	K032	K088	P005	P055 *	P107 *	U035	U085	U135	U185	U237	
F005	K033	K090	P006	P057	P108	U036	U086	U136	U186	U238	
F006	K034	K091	P007	P058	P109	U037	U087	U137	U187	U239	
F007	K035	K093	P008	P059	P110	U038	U088	U138	U188	U240	

* Those waste codes marked with an asterisk (*) are codes that are no longer identified as hazardous wastes per LAC 33:V and 40 CFR Part 261. Since they did appear on the original permit, they are included herein for the sake of completeness.