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CONSTRUCTION COMPLETION REPORT SITE 6 NCBC GULFPORT MS

11/2/1995

MORRISON KNUDSEN CORPORATION

CONSTRUCTION COMPLETION REPORT

SITE 6 - FIRE FIGHTING TRAINING AREA

NAVAL CONSTRUCTION BATTALION CENTER
GULFPORT, MISSISSIPPI

November 2, 1995

Contract No. N62467-93-D-1106
Delivery Order No. 0002
SOW 001

Prepared for:

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DELIVERY ORDER 0002

STATEMENT OF WORK 001

NAVAL CONSTRUCTION BATTALION CENTER GULFPORT

GULFPORT, MISSISSIPPI

CONSTRUCTION COMPLETION REPORT

Draft, dated November 2, 1995

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1.0 INTRODUCTION

This report describes construction activities associated with the ongoing remedial action at the Naval Construction Battalion Center (CBC), Gulfport, Mississippi. Construction activities commenced May 1995 and continued to September 1995. This report, prepared for Southern Division of the Naval Facilities Engineering Command (SOUTHNAVFACENGCOM) by Morrison Knudsen Corporation (MK) summarizes activities completed and work accomplished to meet the objectives and scope of work described in the approved work plan. [MK, 1995]

The objective of this remediation project is to extract and treat free product from the ground water surface. The extracted ground water is treated via an oil/water separator and air stripper. Treated ground water is then discharged to a publicly owned treatment plant (POTW).

The remedial action is based on the Performance Specification report, prepared by ABB Environmental Services, Inc. [ABB, 1994A]. Modifications to the collection and treatment system were incorporated to increase reliability, reduce capital and maintenance costs, and provide a more aesthetic system. These modifications are discussed herein.

A QC Summary Report of the project was prepared and is included as Appendix A. A complete log of daily reports is maintained in the MK and SOUTHNAVFACENGCOM files.

Photographs showing work progress are included as Appendix B of this report.

Operations and Maintenance (O&M) will continue and reports of the O&M and any other resultant findings will be summarized in separate reports.

2.0 PROJECT DESCRIPTION

The project site is a former fire-fighting training area located at the corner of Fifth Street and Colby Avenue as shown on Figures 1 and 2. Fire-fighting training activities began in 1966 and ceased in 1975. At that time, there were two pits in the area and waste liquids were drained into the pits and ignited. Various liquids were suspected to be used at the site including: waste fuel, oils, solvents, paint thinners and cleaning compounds. The pits have been filled and no surface features presently depict their presence. The site has since been used to train electricians on the construction and dismantlement of power lines and transformers, although this activity has ceased.

Site assessments were conducted by Harding Lawson Associates in 1987 and ABB Environmental Services in 1993 and 1994 [ABB 1994b]. A free-phase floating product consisting of dark brown, oily liquid was encountered on the water table during the investigation by ABB Environmental Services.

In May 1995, MK commenced procurement and construction activities to remove the free-phase product. The installed remedial action system includes:

- 12 inch wide x 21 feet deep x 150 feet length recovery trench;
- Three vertical collection wells;
- pumps;
- Four monitoring wells;
- Conveyance trench;
- Piping;
- Equipment Pad;
- fencing;
- Oil/water separator;
- air stripper; and,
- Remote control system

Construction was performed by Gulf South System Inc. of Greenwell Springs, Louisiana and wells were completed by Pickering Inc. of Memphis, Tennessee. Table 1 summarizes the changes from the work plan.

Construction was completed in early September 1995. Check out and start-up activities were concluded on September 14, 1995.

Operation and Maintenance continues under MK management with on-site support provided by A & S Environmental of Terry, MS.

3.0 CONSTRUCTION ACTIVITIES

3.1 OVERVIEW

The free-phase removal system is a pump and treat system and includes a recovery trench with three collector wells. Recovered fluid is treated through an oil-water separator and an air stripper which vents to the atmosphere. The effluent water is discharged to the sewer system and subsequently treated at the Harrison County POTW. A plot plan showing the layout of the ground-water treatment system is provided in Figure 3. Figures 4 to 7 show details of the ground-water recovery and treatment system. Cross-sections of conveyance and recovery (collection) trenches are shown in Figures 8 to 11.

All of the soil excavated during construction with the exception of trenching and drilling cuttings was screened with a Photo Ionization Detector (PID). All of the soil screened was shown to be suitable for use as a common backfill.

The following summarizes the field activities during construction of the remediation system at CBC Site 6, Gulfport, Mississippi.

3.2 RECOVERY OF EXISTING POLES

Twenty-seven existing vertical wooden poles that were used for training electricians were removed from the site. The poles were approximately 30 feet long and were buried approximately five feet. The poles were removed and all soil or debris clinging to the pole was brushed back into the hole. The portion of the pole that was in contact with soil was decontaminated using high pressure water. The decontaminated poles were screened with a PID and stored on-site at an area designated by the Resident Officer In-Charge of Construction (ROICC).

3.3 EQUIPMENT PAD CONSTRUCTION

After the removal of the electrical poles, excavation for the equipment pad commenced. The equipment pad was placed on six inches of compacted structural fill.

To enhance equipment pad stability, crushed limestone was used for base material in lieu of the clean sand structural fill called for in Work Plan. This change was accepted by the ROICC.

The structural fill was placed and compacted to 95 percent of the maximum dry density and the moisture content did not exceed a plus or minus three percent of the optimum. Compaction tests were performed by QES of Gulfport, Mississippi.

The equipment pad measurements were 21 feet by 21 feet by six-inches thick. The pad was constructed with a six-inch wide by nine-inch high concrete curb on all four sides. The surface of the pad was sloped 1/8 - inch per foot towards the two foot by two foot

by two foot deep sump with six inch thick walls and floor. The sump was placed in the southwest corner of the pad. Equipment pad construction material consisted of:

- Ready mixed concrete meeting the requirements of compression strength: 4000 psi @ 28 days.
- 6 x 6 W7.5 x W 7.5 welded wire fabric
- No. 5 rebar, grade 60 steel in both sump and curb.

3.4 EFFLUENT DISCHARGE

The ground-water treatment system was designed to treat a maximum of 36,000 gallons per day (gpd) assuming a ground water recovery rate of 25 gallons per minute (gpm). Treated effluent will be disposed through the CBC Gulfport sanitary sewer system which discharges to POTW.

The effluent discharge from the equipment pad was routed through a three inch schedule 40 polyvinyl chloride (PVC) pipe at a two percent slope to an existing manhole. The three inch PVC pipe was placed on a four-inch clean sand fill material compacted to a 95 percent compaction. The three-inch pipe was grouted to the manhole, in place with non-shrinking grout. The effluent line was covered with twelve inches of clean sand fill material with a 95 percent compaction. The final cover to the effluent trench was common fill, also with 95 percent compaction. All compaction testing to the effluent discharge trench was performed by QES from Gulfport, Mississippi.

3.5 RECOVERY TRENCH SYSTEM

The recovery trench was constructed to recover the free-phase product by actively depressing the ground water through pumping. Three collector wells and vaults were installed along with a diffusion pipe as part of the recovery trench construction.

The only geologic condition encountered during field activities that was not expected based on previous investigations was the presence of flowing sand. Flowing sand was encountered approximately 10 feet each side of GPT-6-RW monitoring well while trenching the recovery trench with the one-pass system.

3.5.1 Recovery Trench

A path, two feet deep and fourteen feet wide, was excavated the entire length of recovery trench to allow the one pass trenching machine to trench and backfill to a depth of 21 feet. Precautions to keep from mixing the backfill material with in-situ material and to maintain the stability of the trench walls were achieved by adding Teflon side shields to each side of the trenching box on the trenching machine.

Trenching commenced and was completed to a final depth of 21 feet below ground

surface (BGS). The trenching box was in a vertical position with continuous backfill being added to the trenching machine backfill hopper. This process continued for 150 feet until the full length of the recovery trench was constructed. Backfill material meeting the specifications in the Work Plan was placed in a trench 12 inches wide and to 21 feet bgs.

3.5.2 Handling of Excavated Material

Excavated and the trench cuttings (300 cubic yards) were loaded into roll-off boxes and later removed from site to Pecan Grove Landfill, Pecan Grove, Mississippi.

3.5.3 Backfill Material

The backfill material used met the following characteristics:

- Clean Sand
- Well rounded grains
- 90 to 95 percent quartz
- Coefficient of uniformity of 2.5 or less

The gradation of the backfill material is shown in Table 2.

3.5.4 Vertical Collector Wells

A hollow stem eight-inch auger was used to install the three collector wells RCW-1 through RCW-3 (See Figure 12). The collector wells were installed to a depth of 20 feet BGS through the center of backfill material that was placed by the trench machine. The water table was encountered at a depth of approximately 6 feet BGS.

The casing string was pre-assembled on the surface and placed inside the auger stem. Continuous flight augers were then backed out slowly to allow backfill material to reform around the well string.

Casing string specifications used were:

- Schedule 10S, type 304 stainless steel,
- Nominal four inches in diameter but no larger than 6 inches in diameter,
- Blank casing to five feet BGS,
- 0.020-inch wire wrap, continuous slot, well screen from 5 to 15 feet BGS, and
- Tailpipe from 15 to 20 feet BGS.

The casing string used was 4 inches in diameter. The well screen was attached to the blank casing and tailpipe by nonrestrictive (flush) threaded joints. The bottom of the tailpipe was capped.

3.5.5 Recovery Trench Cover

The recovery trench cover consists of a PVC lateral diffusion (maintenance) pipe embedded in the filter material, a high density polyethylene (HDPE) liner and top soil backfill. The lateral diffusion pipe used was one and one-half inches in diameter and screened with 20 slot (0.020 inch) openings. The diffusion pipe was fitted with an end cap inside the vaults. The filter material around the diffusion pipe was hand tamped.

A 30-mil HDPE liner was placed above the lateral diffusion pipe and filter material then anchored into the surrounding soil. A layer of common fill and top soil that had previously been excavated from the trench was tamped in place above the HDPE Liner. Details of Recovery trench cover are shown in Figure 14.

3.5.6 Vaults

The vaults at each well head is designed to accommodate the recovery system's piping while allowing ample access room for operation and maintenance. The recovery system piping includes air line, recovery line and diffusion/maintenance piping.

A three feet by three feet by two and one-half feet deep precast concrete vault with a lockable, traffic bearing, steel cover lid was installed at the well head. The floor and walls of the vault are concrete, placed to a minimum thickness of four inches. The concrete used had a minimum 28 day compressive strength of 4000 pounds per square inch.

Openings were made in the sides of the concrete vault for recovery line, air line, and infusion/maintenance piping. Openings were also made in the floor of the vault for the vertical collection well and drain pipe.

The vaults contain the four-inch diameter stainless steel blank well casing with a four-inch predrilled PVC cap, a one-inch schedule 40 PVC air supply line reduced to a 1/2 inch valve and 1/2 inch inner diameter air hose, a 1-1/2 inch galvanized carbon steel recovery pipe reduced to 3/4 inch inner diameter gasoline resistant hose. The diffusion/maintenance pipe enters each side of the vaults and is capped. A 2 inch x 12 inch schedule 40 drain pipe is located in the floor of each vault.

By pneumatic control design of auto pump used in collection wells, the (optional) satellite controller was omitted from work plan.

Details of a recovery vault are shown in Figure 11.

3.5.7 Collection Well Pumps

The collection pumps were lowered to five feet below ground water level in the recovery wells. The pumps were secured in place by a polypropylene support rope and tied off to an eye-bolt that is fastened to the top of the four-inch PVC cap on the well head.

4.0 CONVEYANCE TRENCH

4.1 TRENCHES

The three vertical collector wells were connected to the treatment equipment by a conveyance trench network. Each trench dimension was 24 inches wide and 24 inches deep. The trenches consisted of direct buried pipes and a soil trench cap. Conveyance trench details and cross-sections are shown in Figures 8 to 10.

4.2 TRENCH EXCAVATION

The trench was excavated to a depth of 24 inches. The excavated material was stockpiled for use as backfill. Hand excavation was performed in areas where trenches crossed existing utilities. Piping was installed below existing utilities found during trenching activities.

Utilities found during excavation are shown in Figure 6.

4.3 PIPING

As shown in Figure 8, the liquid collection piping to the collector wells was one and one-half inch diameter, threaded schedule 80 galvanized carbon steel pipe. The drops to each well vault were also one and one-half inch threaded schedule 80 galvanized carbon steel pipe. The one and one-half inch pipe was adapted to the 1/2-inch inner diameter pump hoses inside the vault. The collection piping was stubbed up approximately one and one-half feet at the equipment pad.

The air supply piping to the collector wells were two-inch schedule 40 PVC pipe with one-inch schedule 40 PVC drops at each vault. The one-inch pipe was adapted to the 1/2-inch I.D. pump hoses inside the vault. The air supply piping was also stubbed up approximately one and one-half feet at the equipment pad.

4.4 PIPE BEDDING AND COVER

A four-inch lift of sand bedding was placed under the conveyance piping. The sand bedding was compacted to 95 percent of the maximum dry density. The sand bedding material was placed and compacted to one foot over the top of the pipes. The sand was placed simultaneously on both sides of the pipe in loose lifts of eight inches. Each lift was tamped in, using hand operated tampers to ensure all voids around the pipe were completely filled and that the material was compacted to at least 95 percent of the maximum dry density. The moisture content of the sand bedding material did not exceed plus or minus three percent of the optimum moisture content. The sand bedding material was clean, natural, sand conforming to the following gradation:

Sieve Opening	Percent Passing, By Weight
3/8" Square	100
No. 4	40-100
No. 100	0-15

The entire depth of the trench above the sand cover was backfilled and compacted with common fill from the trench excavation. QES conducted all compaction testing on conveyance trench.

All piping was hydrostatically tested. All PVC piping was tested to 80 psi per two-hour hold. All Galvanized piping was tested to 40 psi per two-hour hold in accordance with design specifications of the work plan.

5.0 MONITORING WELLS

5.1 WELL HEAD RECONSTRUCTION

Well head reconstruction of existing recovery well GPT-6-RW was omitted from the scope of work. Due to the location of GPT-6-RW and building 390, the trenching machine had to pass between these two points. The well head on GPT-6-RW had been removed two and a half feet below grade, then placed wooden mats over the capped end of the well head to allow the trencher to pass. When the trencher was passing GPT-6-RW, flowing sands caused the tail end of the well to shift into the path of the trencher. The well string was removed from the trencher and the recovery trenching resumed. After discussing this with ABB, GPT-6-RW did not require reinstallation and therefore requires no further action.

5.2 NEW MONITORING WELL INSTALLATION

Four monitoring wells were installed, in locations shown on Figure 12, by Pickering Inc. The monitoring wells were screened in an unconfined aquifer consisting of fine-grained silty sand and sandy or clayey silt.

Monitoring well components are shown on Figure 13 and monitoring well installation procedures was as follows:

- A borehole was augered to an approximate depth of 16 feet below existing grade using 8-inch diameter hollow stem continuous flight augers. The drill cuttings from the augering process were containerized in open-top 55-gallon drums with sealable drum lids, then transferred to roll of boxes for sampling and disposal.

- Six inches of 16/30 filter pack was placed in the borehole. The filter pack material was 98 percent pure silica.

- The well string consisted of, from bottom to top, a well end cap, well screen from 15 to five feet, blank casing from five feet to three inches below existing grade, and a screw cap was placed in the borehole. The well screen, with 20-slot (0.020-inch) openings, was commercially fabricated. The slot size is large enough to maximize ground water inflow, while being small enough to prevent the entrance of sand filter pack material into the well. The well screen is attached to the well casing and end cap by nonrestrictive threaded joints.

- After placement of the well string, the remainder of the 16/30 sand pack was installed in the well annulus from a total depth to three feet below existing grade. The sand pack prevented the sediments from collapsing against the screen and served as a filter to prevent fine grained sediments from migrating into and plugging the well screen, The 16/30 sand was sized to be compatible with the 0.020 screen slot size and formation sediment gradation.

- Sodium bentonite was placed as an annular seal from three feet to two feet below existing grade. The bentonite was 90 percent montmorillonite clay, with a bulk density of 80 pounds per cubic foot, a specific gravity of 1.2, and a pH of 8.8 to 10.5. A water/Portland cement grout mixture, 1:3 by weight with five percent bentonite was placed above the bentonite seal to nine inches below existing grade. The grout seal was inspected for possible settlement 24 hours after placement. Additional grout was not required to backfill the annulus.

- A monitoring well cover was placed over the well strings and on the grout. The manhole opening was eight inches by eight inches, 22-gauge steel, water resistant with a 3/8-inch steel lid and lockable device. The top of the manhole was set at 3 inches above existing grade.

5.3 RECOVERY WELLS AND MONITORING WELL DEVELOPMENT

All wells were surged with a surge block assembly, then developed by using an electrical pump at a rate of 5 gpm. Well development did not begin prior to 24 hours after installation of the annular seal. Three well volumes plus were removed for development. Specific conductance, pH, turbidity and temperature were monitored during development. When these parameters were stabilized, *i.e.,* within five percent of the previous measurement, and the extracted water was free of visible sediment, the recovery well was considered adequately developed. These parameters were monitored every 15 minutes during well development. The quantity of water produced during development, the development time, temperature, pH and specific conductance and equipment used was recorded on the well development logs.

Development water from each well was placed in open-top 55-gallon drums, then transferred to a 2,000 gallon temporary storage tank prior to treatment in the groundwater treatment system. All augers, shovels, well development equipment, and miscellaneous drilling equipment were decontaminated prior to moving to the next monitoring well location and after the last well completion. All water generated in the decontamination process was placed in a temporary storage tank prior to treatment.

6.0 REVEGETATION

6.1 SEED

Seed specifications were changed from what is described in the work plan to a more native seed indigenous to the local climate. The mixture used was a fifty-fifty mix of Bermuda and Centipede applied at a rate of one hundred pounds per acre per CID #026-003.

6.2 FERTILIZER

The fertilizer used was upgraded from 12-12-12 stated in work plan to 13-13-13 due to local availability. The fertilizer was applied at a rate of one thousand pounds per acre.

6.3 MULCH

Mulch was changed from cereal straw to Bermuda hay. The hay was cut from pure strands of Bermuda grass and from the current season's growth per CID #026-003.

Seed and fertilizer were placed mechanically with equipment designed for even distribution of dry seed. Scattered seeds were covered with approximately 1/4 inch of soil by raking, and the seeding operation was completed by firming the seed bed by rolling. Mulch was distributed evenly over the area following the seeding operation.

The seed bed was watered and maintained until completion of all work and germination of seed bed occurred.

6.4 FENCING

The equipment pad was enclosed with a six foot high chainlink fence with slats. The posts were embedded in concrete to a depth of two feet. The fence has an eight foot lockable double swing gate.

7.0 TREATMENT SYSTEM PACKAGE

7.1 PIPING

All piping was installed in accordance with design specifications of the work plan.

7.2 POWER SUPPLY

The subcontractor furnished and installed all electric material such as conduit, wire, fittings, hardware, and distribution equipment. All electrical wiring was installed in accordance with requirements of the latest edition, of the NEC (1993) and applicable local ordinances.

A 200 ampere, three phase, four wire, 208/120 volt service feeder was routed from an existing bank of transformers located East of Simms Avenue. The feeder was routed overhead to a new 30 foot pole next to the treatment pad area as shown in Figure 6. From the new pole at the fence, the feeder was run through a conduit down to a watt-hour meter and a 200 amp, three phase, four-wire main fused disconnect switch suitable for service entrance use.

The circuit breaker panel board was suitable for outdoor use with direct exposure to weather. The panel was suitable for 120/208 volt, three phase, four wire system. Incoming to the panel were main lugs only. The panel was equipped with branch circuit breakers to feed the remediation system equipment. Table 3 shows the circuit breaker panel board minimum branch circuit requirements.

All wiring such as conduits, wire and fittings, for wiring between the breaker panel and the control panels, was provided and installed by Gulf South Systems, Inc. Branch circuits consisted of copper conductor wire with type THWN insulation, sized and installed in rigid galvanized conduit per NEC. All conduit was routed from the circuit breaker panel to treatment equipment control panels in such a way as to minimize interference with operation and service (maintenance) of the system equipment.

A weatherproof, 120-volt, single phase, 20 ampere, NEMA 5-20, duplex outlet in a weatherproof outlet box with cover was supplied and installed. It was located at a location convenient for plugging in electric hand tools and test equipment. A 120-volt single phase high pressure sodium (HPS) light was supplied and installed to give adequate lighting to inspect and operate the remediation equipment at night. The light was weatherproof and was controlled with a photoelectric cell. A 120-volt single phase strobe alarm light was installed at an elevation visible from passing streets.

7.3 MONITORING SYSTEM

The treatment equipment has a control panel mounted on the unit and a remote monitoring and control system located at the base. A modem and an auto-dialer are

included with the control panel to communicate with remote monitoring and control system. The remote monitoring and control system includes a personal computer (PC) with necessary hardware and software. The software package was customized by Carbonair. An overview of the package is provided below.

The system requires two dedicated telephone lines at the control panel; one for the modem and the other for the auto-dialer. A dedicated telephone line is also required for the internal PC modem at the base office.

Data is transferred from the control panel to the PC using modems. The data transfer rate can be user defined with lowest setting of 12 minutes. The remote system monitors:

- the status of all pumps and blowers with on/off remote control,
- the status of alarm conditions, and
- readings from flow meters, pressure gauges and liquid level.

The software provides data management, historical trending, graphics and reports.

The hard drive of the PC must be "on" at all times in order to acquire the data. Also the system is set up to automatically transfer data to a 3 1/2 inch disk. A disk must be kept inserted for the data to be transferred to either the hard drive or the disk.

The system is designed to shut itself off when there is a malfunction or if operating parameters are exceeded. Also, the system incorporates the following methods of notification during malfunction.

- An alarm strobe mounted on the control panel will be activated.
- The auto-dialer will dial pre-set telephone numbers and give a pre-recorded voice message. It is capable of dialing four telephone numbers one at a time. The auto-dialer terminates operation when a phone is answered. The auto-dialer cannot leave messages on an answering machine.
- The alarm condition will be indicated on the PC screen.

The office computer software has the following capabilities:

- software capable of interfacing with the remediation site.
- communications package capable of automatically calling the remediation site.
- after accessing a site, an individual dynamic screen will display the operational status.
- other accessible site screens are monitoring data, system control, alarm status logging, and data logging.

8.0 EFFLUENT TANKS

8.1 EFFLUENT TANKS AND FOUNDATIONS

Due to the change in the effluent discharge permit, the two 20,000 gallon effluent discharge storage tanks were omitted from the work plan along with the ring wall concrete foundation for the tanks. The effluent discharge line now discharges directly into the NCBC sanitary sewer system which empties into the POTW.

9.0 CHECK-OUT AND START-UP

9.1 SYSTEM START-UP

On September 14, the treatment system was inspected before start-up. Potable water was run through the treatment system to verify system integrity. The potable water was drained from the system except what was necessary for proper operation of the oil/water separator.

Before starting the system, the water/product level was measured in all of the wells. After well measurements were taken the system was started and ground water was introduced. Table 4 summarizes the sequence of events for start-up.

The treated water was collected in a temporary holding tank. The system was operated for approximately two hours before influent and effluent samples were collected. Approximately 2,000 gallons of effluent liquid had accumulated in the collection tank.

The water/product levels in the wells were measured again while the treatment system was in operation. A total of approximately 3,000 gallons were treated before shutting off the system.

Product and water level measurements from the wells are shown in Table 5.

9.2 PROBLEMS AND SOLUTIONS

There were no major problems associated with equipment start-up. Minor problems associated with were resolved as follows:

- Problem with flow meters: Flow meters FM-1 and FM-3 were not recording any flow. Flow meter FM-2 was not accurate. The temporary storage tank had accumulated approximately 1,800 gallons of water, however, FM-4 showed 1,600 gallons, 681 gallons of which was on the meter from testing with potable water.

  Solution: FM-1, and FM-3 were found to have metal shavings caught in the turbines. The debris was removed, however, the calibration was still in error. The programs on all of the flow meters were checked. It was discovered that an incorrect constant had been used. The problem was corrected and the meters operated properly. The flow meters at the panel and computer will both be reset to zero before the system is started for continuous discharge.

- Problem with 3-way solenoid valve: The 3-way solenoid valve V-24 was not functioning properly. The valve was designed to purge the air pressure from the recovery pumps when the system alarmed. The purge line was discovered to be plugged. The piping configuration is as follows: Port 1 is connected to the compressor, port 2 to the recovery wells and port 3 is open to the air for the

purge. After shutting down the system (including power) it was discovered that the purge line was plugged. Upon removing the plug it was discovered that the compressor receiver tank was being purged.

Solution: The piping to the three-way solenoid valve, V-24, was reconfigured for proper operation.

- Problem with automatic condensate drain: The automatic condensate drain on the compressor was not functioning properly allowing a continuous flow of air from the receiver tank. The operating manual indicated that if this problem occurred that the automatic valve needed to be primed with water.

  Solution: The valve will be primed when the system is started for continuous operation.

10.0 WASTE MANAGEMENT

All clean excavated soil and construction material (sand) was spread at the site and vegetated with grass. Contaminated drill cuttings and trenching residues were loaded in 20 yard roll off boxes and stored at the less than 90 day storage area assigned to MK by the ROICC. Characterization samples were taken by MK on July 26, 1995 and analytical results were received July 26, 1995. Roll-off boxes containing the drill cuttings and trench residue material were sent off-site to Pecan Grove Landfill, Pecan Grove, Mississippi on August 7 and 8, 1995. Copies of the analytical results are included in Appendix D. Decontamination water and well development water was treated through the ground-water treatment system and discharged to the POTW in Harrison County.

Contamination waste volume and disposal location:

- Trench and drill cuttings - 300 cubic yards. Delivered to Pecan Grove Landfill
- Decontamination and well development water - 1000 gal. Treated through treatment system on-site and discharged to POTW.
- Clean construction debris - Dumpsters to Non-hazardous landfill.
- Personnel Protective Equipment - Placed in plastic bags then placed in roll off boxes with soil for disposal to Pecan Grove Landfill.

11.0 CONCLUSIONS

The work was completed in accordance with the Work Plan and incorporated the minor field changes described in this report. The ground-water collection and treatment system was started on September 14, 1995 and there were no major problems with the system. Minor problems have been resolved or will be resolved when the system is started for continuous operation. Approval from the POTW and City of Gulfport has been received and the continuous automatic operation of the treatment system has commenced. The construction phase is complete and the O&M phase underway.

12.0 REFERENCES

1. "Work Plan, Site 6 - Fire Fighting Training Area, Naval Construction Battalion Center Gulfport, Gulfport, Mississippi." Morrison Knudsen Corporation, February, 1995.

2. "Performance Specification, Site 6, Fire-Fighting Training Area, Naval Construction Battalion Center Gulfport, Gulfport, Mississippi." ABB Environmental Services, December 1994.

3. "Free-Phase Product Assessment Report, Site 6, Fire Fighting Training Area, Naval Construction Battalion Center Gulfport, Gulfport, Mississippi." ABB Environmental Services, July 1994.

TABLE 1: CHANGE SUMMARY

Description of Change	CID #
To enhance equipment pad stability crushed lime stone was used for base material in lieu of clean sand structural fill called for in Work Plan.	026-002.
By pneumatic control design of auto pump used in collection wells, the (optional) satellite controller was omitted from work plan.	024-003.
Well head reconstruction of existing recovery well GPT-6-RW was omitted from the scope of work. Due to the location of GPT-6-RW and existing Naval building 390 the trenching machine had to pass between these two points. The subcontractor, GSS, had removed the well head on GPT-6-RW two and a half feet below grade, then placed wooden mats over capped end of well head so trencher could pass. When trencher was passing GPT-6-RW flowing sands caused tail end of well to shift into the path of the trencher. Well string was removed from the trencher and the recovery trenching resumed. As per conversation with ABB engineers, GPT-6-RW did not require reinstallation and therefore requires no action by MK.	
Seed specifications were changed from what is described in the work plan to a more native seed indigenous to the local climate. The mixture used was a fifty-fifty mix of Bermuda and Centipede applied at a rate of one hundred pounds per acre.	026-003.
Mulch was changed from cereal straw to Bermuda hay. The hay was cut from pure strands of Bermuda grass and from the current season's growth	026-003.
Due to the change in the effluent discharge permit, the two 20,000 gallon effluent discharge storage tanks were omitted from the work plan along with the ring wall concrete foundation for the tanks. The effluent discharge line now discharges directly into the NCBC sanitary sewer system which empties into the POTW.	026-001.

TABLE 2: BACKFILL GRADATION CHART

D-Size Finer	Size Range (millimeter)	
	From	To
D_0	0.20	0.70
D_{10}	0.45	1.50
D_{30}	0.90	2.90
D_{50}	1.05	3.50
D_{60}	1.13	3.75
D_{70}	1.25	4.00
D_{90}	2.00	6.30
D_{100}	3.50	9.53

TABLE 3: CIRCUIT BREAKER PANEL BOARD MINIMUM BRANCH CIRCUIT REQUIREMENT

Load Description	Bkr Amps	No. Poles
Well Pump Compressor 3 Ph, 10 Hp	60 A	3P
Air Stripper Package Main Disc, 3 Ph	80 A	3P
Product Tank/Product Pump Pkg, Main Disc, 3 Ph	60 A	3P
Oil/Water separator-Level Controls, 1 Ph	20 A	1P
Effluent Tank Levels, pump, 3 Ph	60 A	3P
Treatment Pad Sump Level - 1 Ph	20 A	1P
Equipment Pad Area Lights - 1 Ph	20 A	1P
Convenience Outlet - 1 Ph	20 A	1P
Spare - 3 Ph	60 A	3P
Spare - 3 Ph	60 A	3P
Spare - 1 Ph	20 A	1P
Spare - 1 Ph	20 A	1P
Spare - 1 Ph	20 A	1P

Note: Circuit breaker was GFCI type to provide protection of personnel against shocks from ground faults.

TABLE 4: START-UP SUMMARY

Time	Activity
13:20	Turned on blower Flow totalizer - FM-4 on computer showed 681 gallons at start.
13:26	Turned on air to wells, opened valves
13:29	Adjusted pressure in blower to 24 inches of water.
13:40	High level alarm on oil water separator. The air stripper pressure was over 40 inches of water. Adjusted bypass valve to 30 inches of water.
15:20	Began sampling
15:53	Began measuring water/product levels in the wells
16:24	The well pumps were shut off.
16:44	The blower was shut off and the remaining treated water was pumped to the holding tank.
17:00	All systems were shut off, the compressor was depressurized, all breakers were shut off, and all wells were secured before leaving the site.

TABLE 5: PRODUCT THICKNESS AND WATER LEVEL MEASUREMENTS 9/14/95

	INITIAL (BEFORE PUMPING)				DURING PUMPING (STARTED 13;20)			
WELL	TIME	DEPTH TO PRODUCT (ft. bTOC)	DEPTH TO WATER (ft. bTOC)	PRODUCT THICKNESS (ft.)	TIME	DEPTH TO PRODUCT (ft. bTOC)	DEPTH TO WATER (ft. bTOC)	PRODUCT THICKNESS (ft.)
GPT-6-P24	11:00	NA	7 37	NA	16:18	NA	7:33	NA
WP-1	11:00	NA	5.99	NA	16.04	NA	6.19	NA
WP-2	11 01	NA	4.44	NA	16:02	NA	4.49	NA
GPT-6-3	11 01	NA	5 62	NA	16:01	NA	6 12	NA
GPT-6-5	11 02	NA	9.71	NA	16:05	NA	10.4	NA
GPT-6-4	11:03	9.79	10 68	0.89	16:06	10.47	11.5	1.07
GPT-6-PZ1	11 04	7 41	8.91	1.42	16:09	7.87	9 83	1.96
GPT-6-PZ2		NA	6 39	NA	16:08	NA	6.99	NA
GPT-6-2		NA	8.99	NA	15:52	NA	9.23	NA
GPT-6-PZ3	11:04	NA	6.15	NA	15:53	NA	6.59	NA
GPT-6-8	11.05	8.58	8 97	0 39	15:54	8 79	10 15	1 36
GPT-6-1	11.05	8 79	10.06	1.27	15 56	9.52	11.45	1.93
GPT-6-7	11:09	NA	12.26	NA	15 58	NA	12.27	NA
GPT-6-6	11:10	7 34	8.89	1.55	15:59	7.77	9 54	1.77
Collection Well 1	11 15	NA	5.53	NA	16:14	NA	9 45	NA
Collection Well 2	11:20	NA	5.88	NA	16:12	NA	8.06	NA
Collection Well 3	11 30	6.34	6 35	0.01	16.16	NA	7.79	NA

Note: NA = No product encountered in the wells

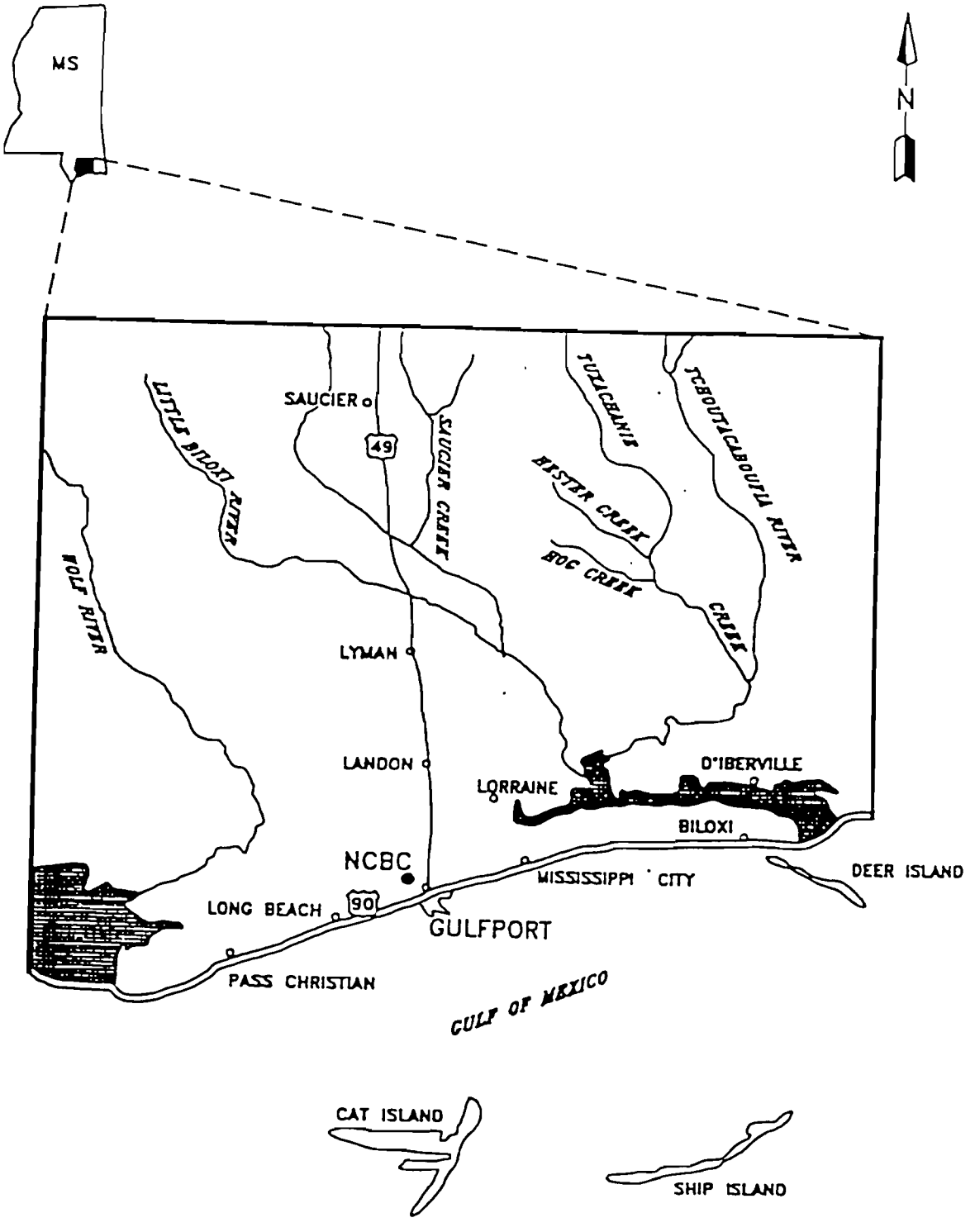


FIGURE 1
SITE LOCATION MAP

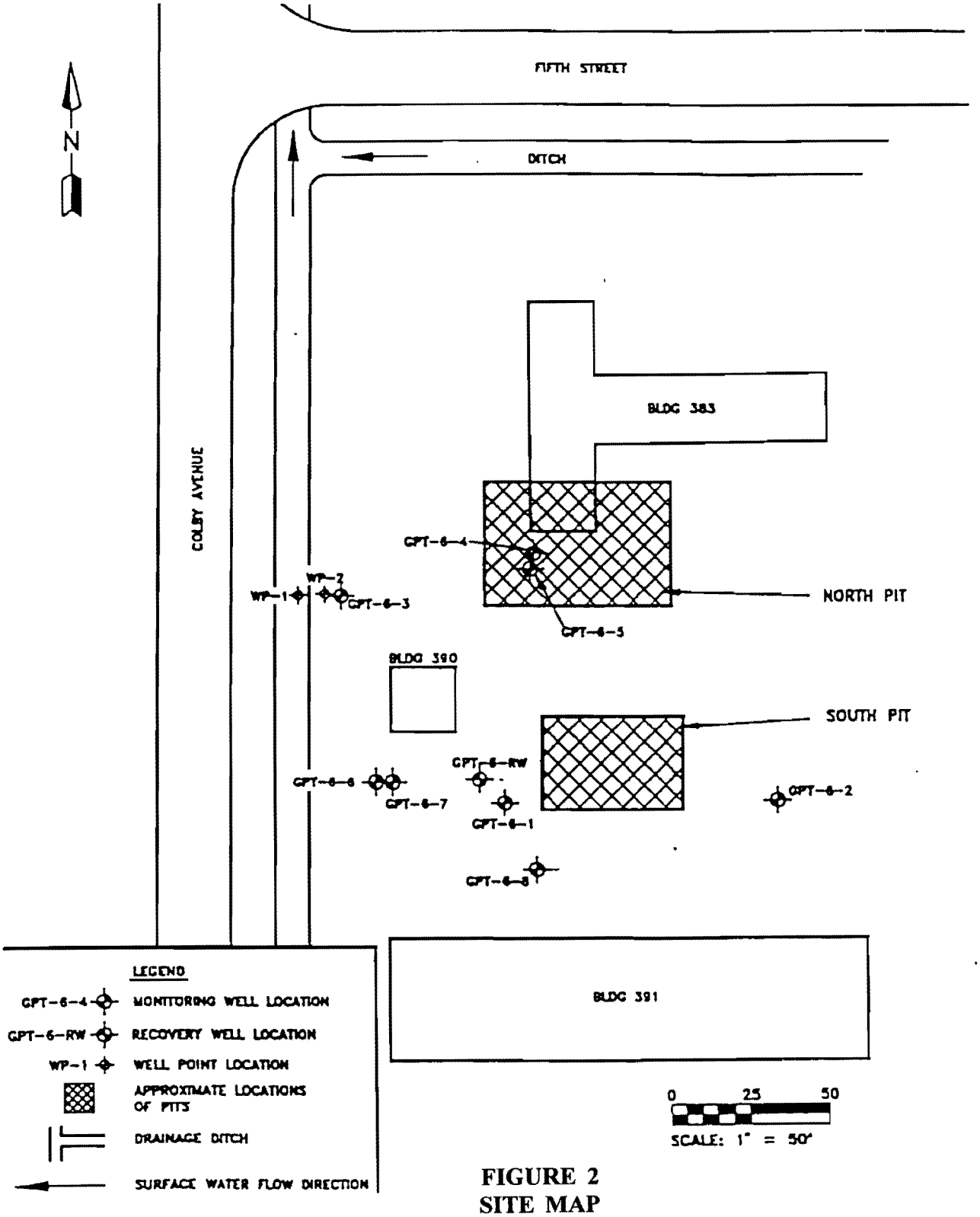


FIGURE 2
SITE MAP

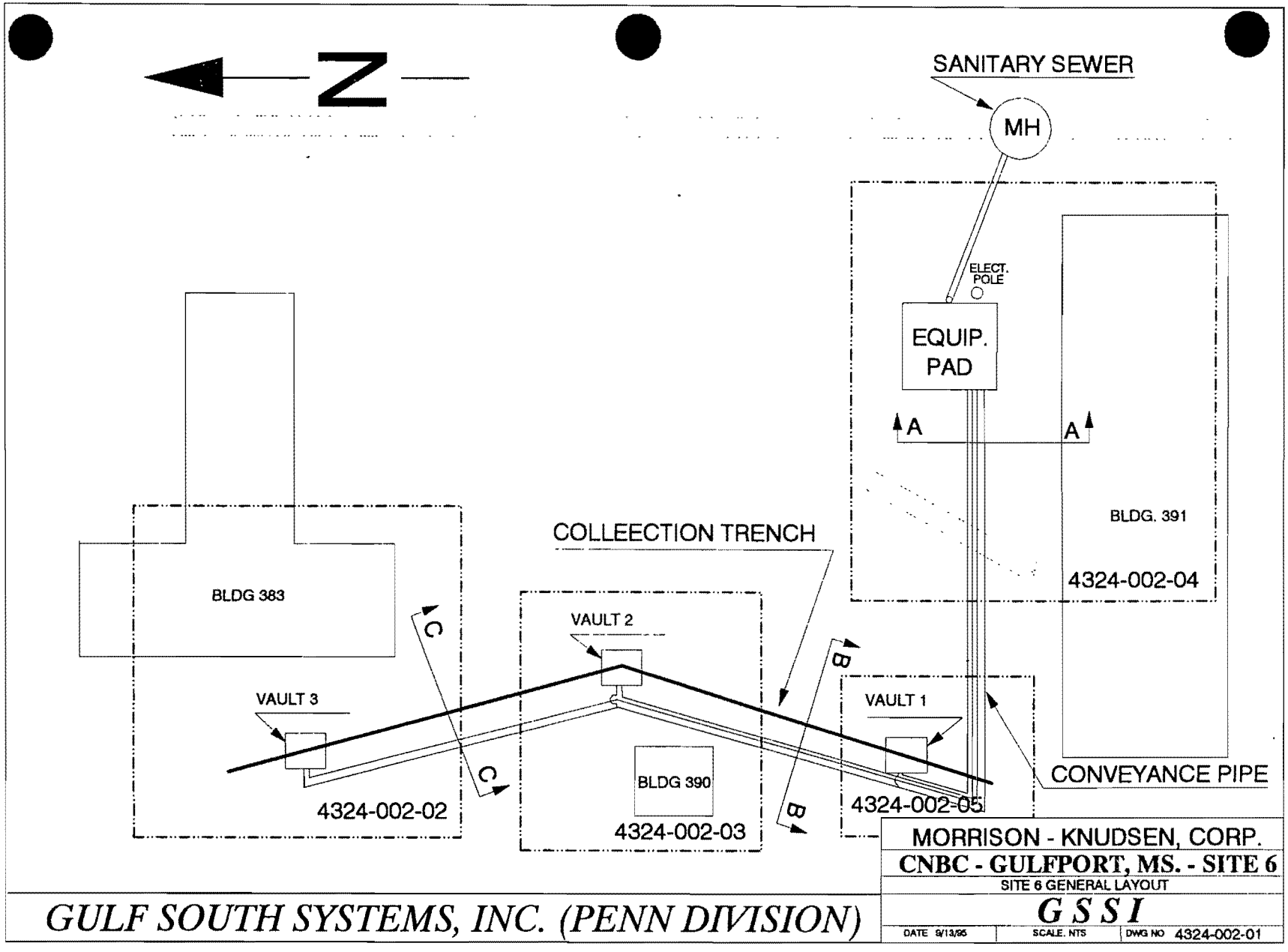


FIGURE 3
LAYOUT OF GROUND-WATER TREATMENT SYSTEM

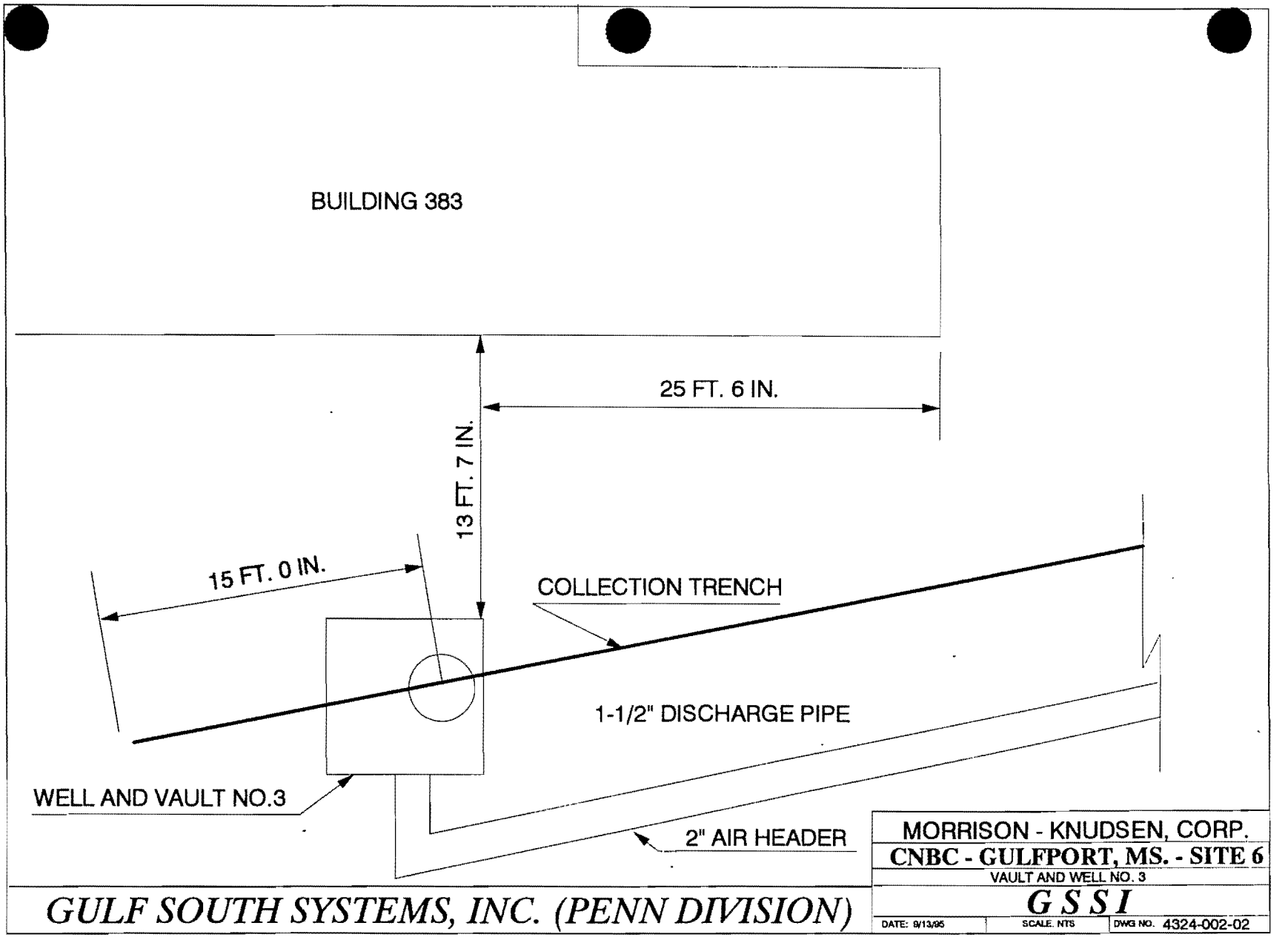


FIGURE 4
LOCATION OF VAULT NO. 3

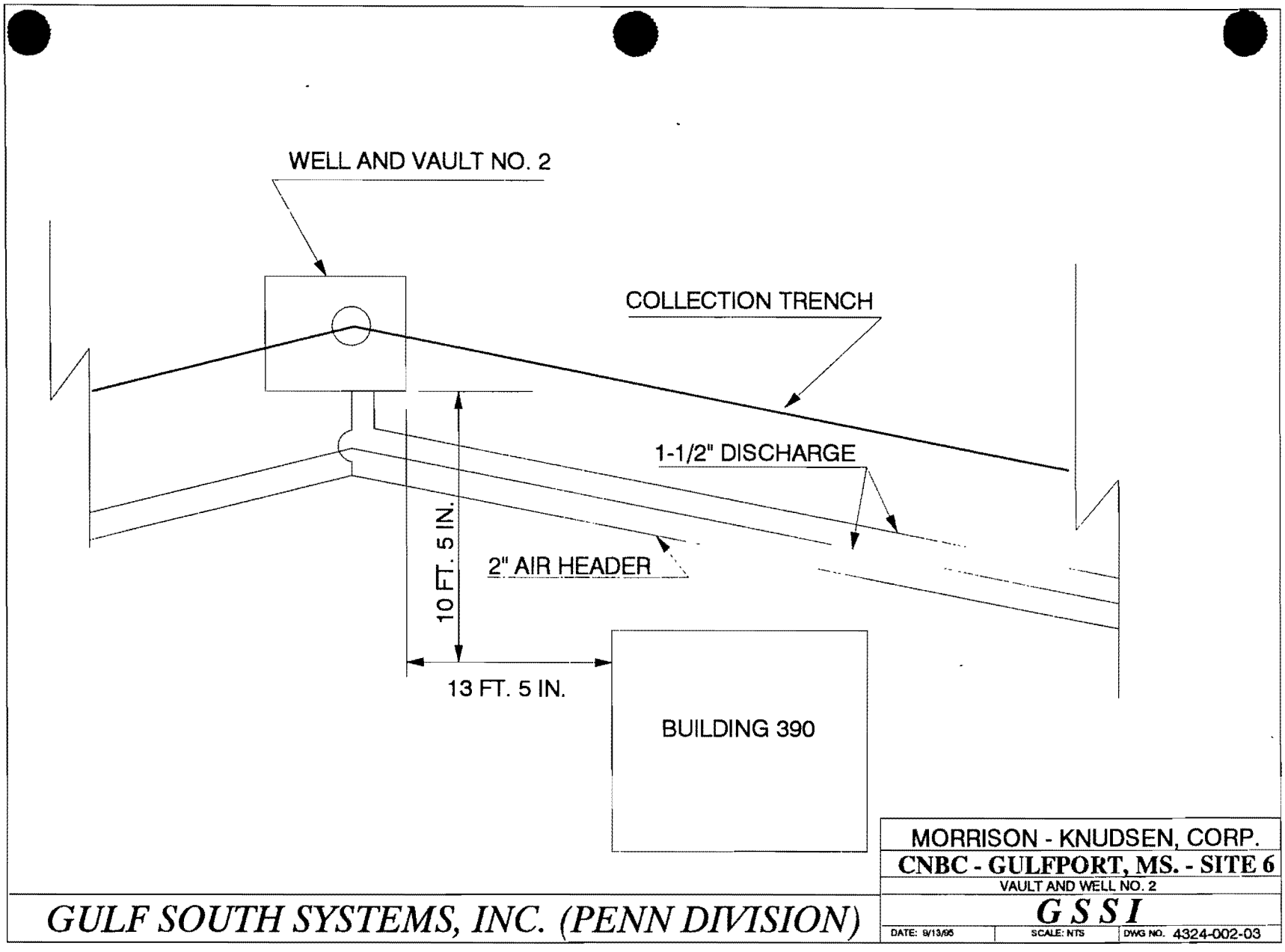


FIGURE 5
LOCATION OF VAULT NO. 2

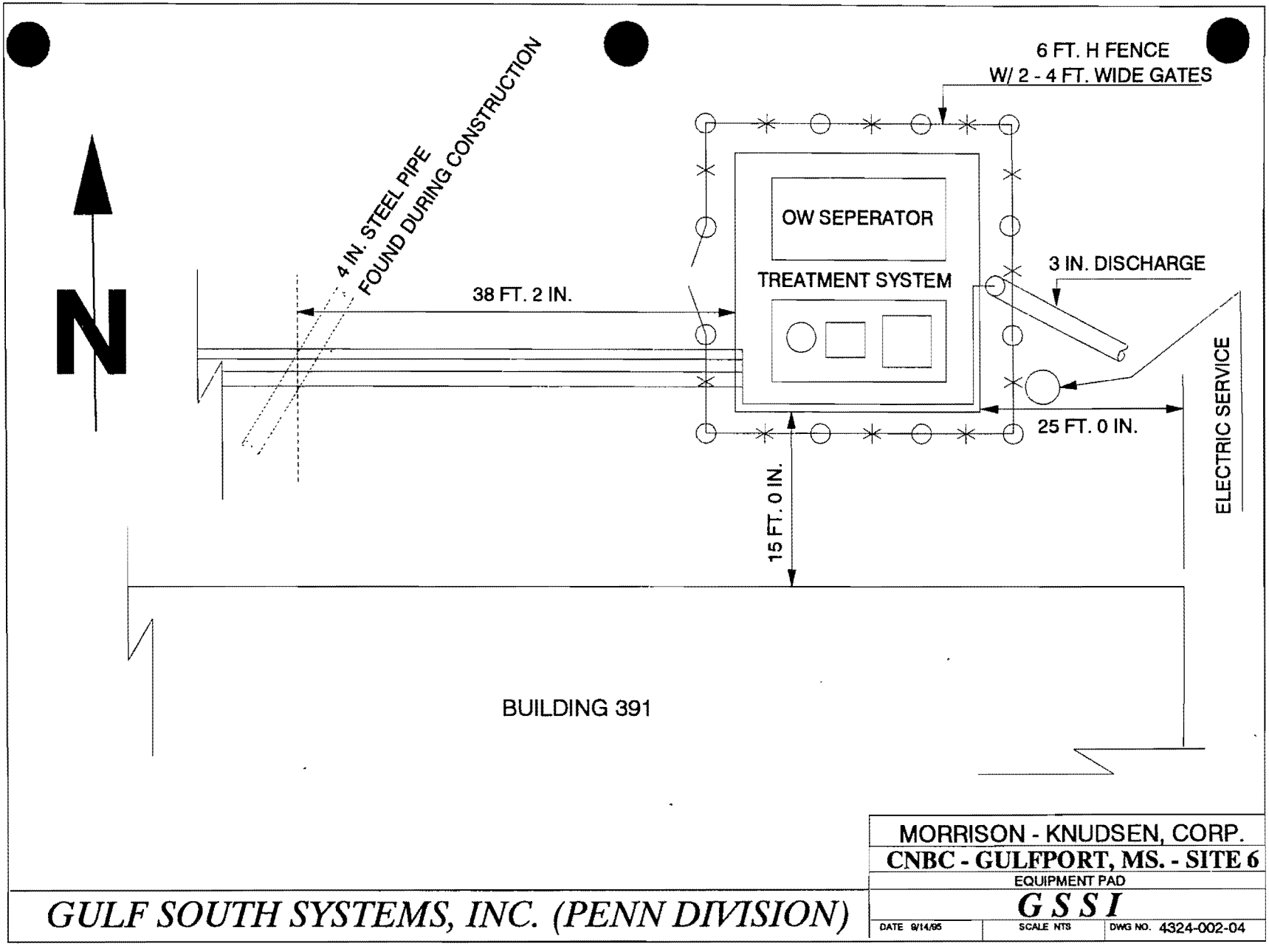


FIGURE 6
EQUIPMENT PAD

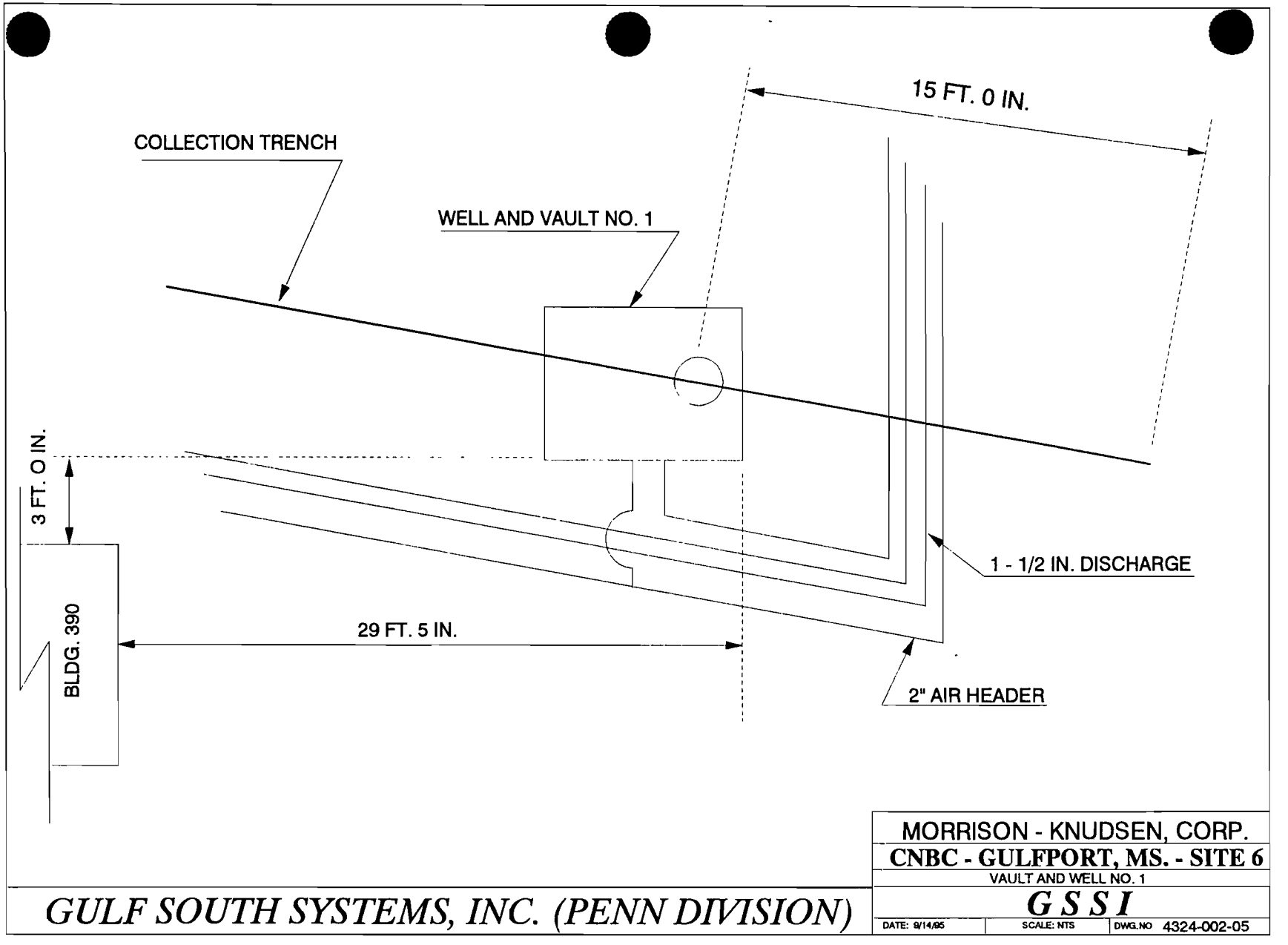
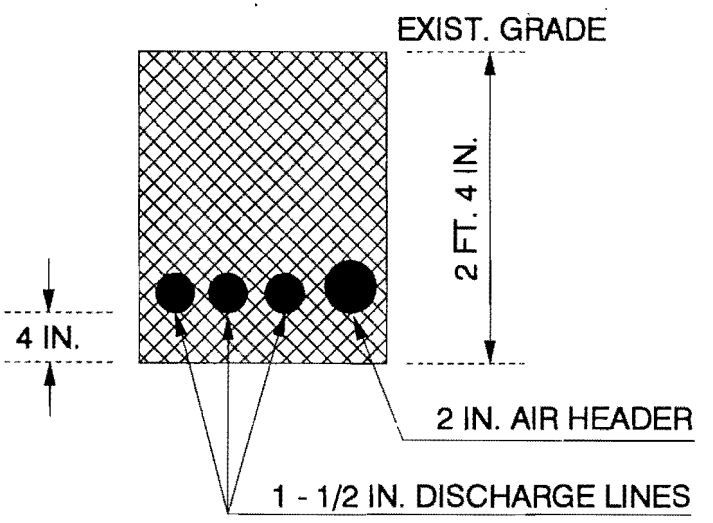


FIGURE 7
LOCATION OF VAULT NO. 1



MORRISON - KNUDSEN, CORP.
CNBC - GULFPORT, MS. - SITE 6
SECTION A..A
GSSI
GULF SOUTH SYSTEMS, INC. (PENN DIVISION)
DATE 9/14/95 | SCALE: NTS | DWG NO 4324-002-06

FIGURE 8
CONVEYANCE TRENCH, SECTION A-A

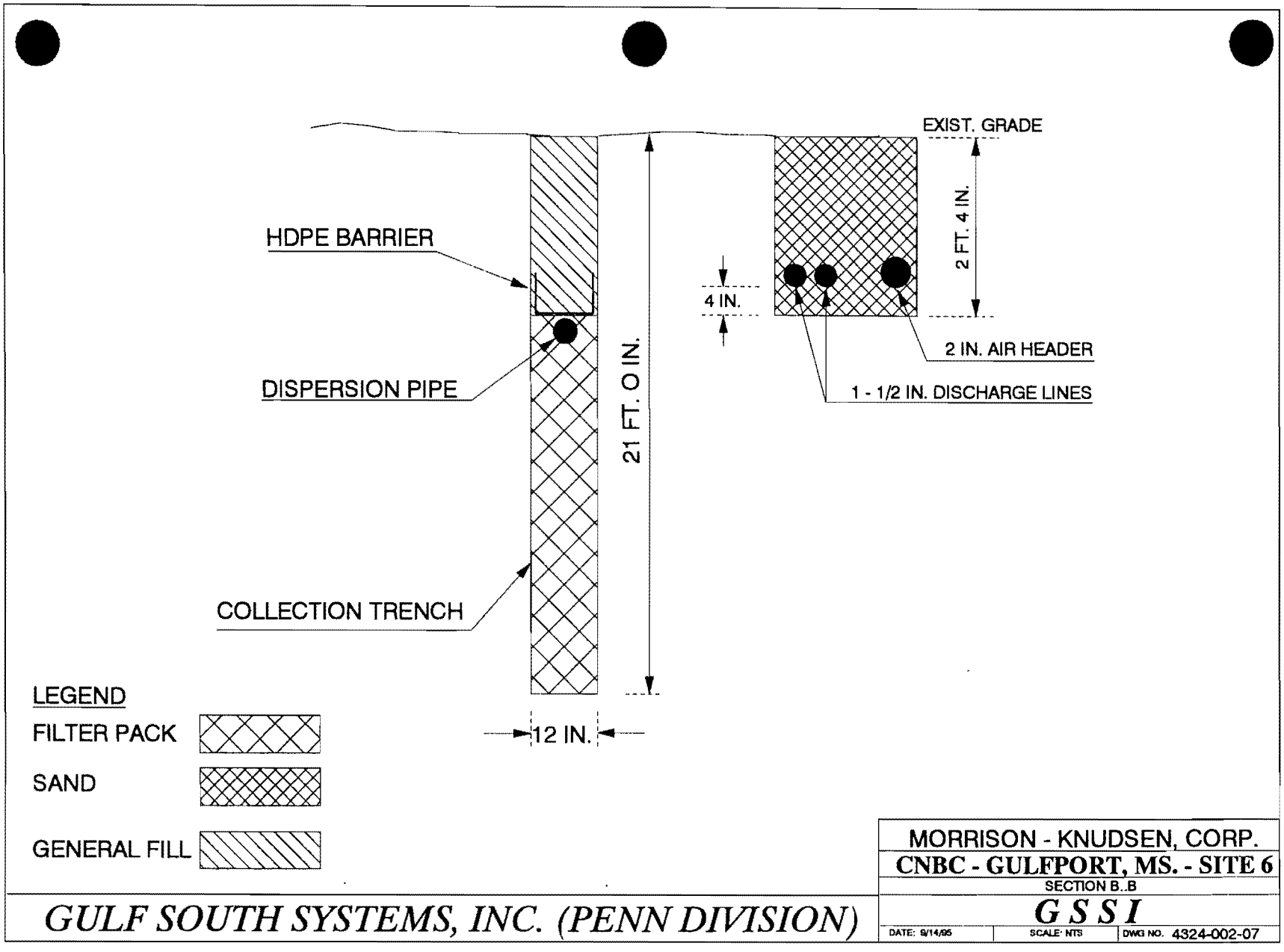


FIGURE 9
CONVEYANCE AND RECOVERY TRENCHES, SECTION B-B

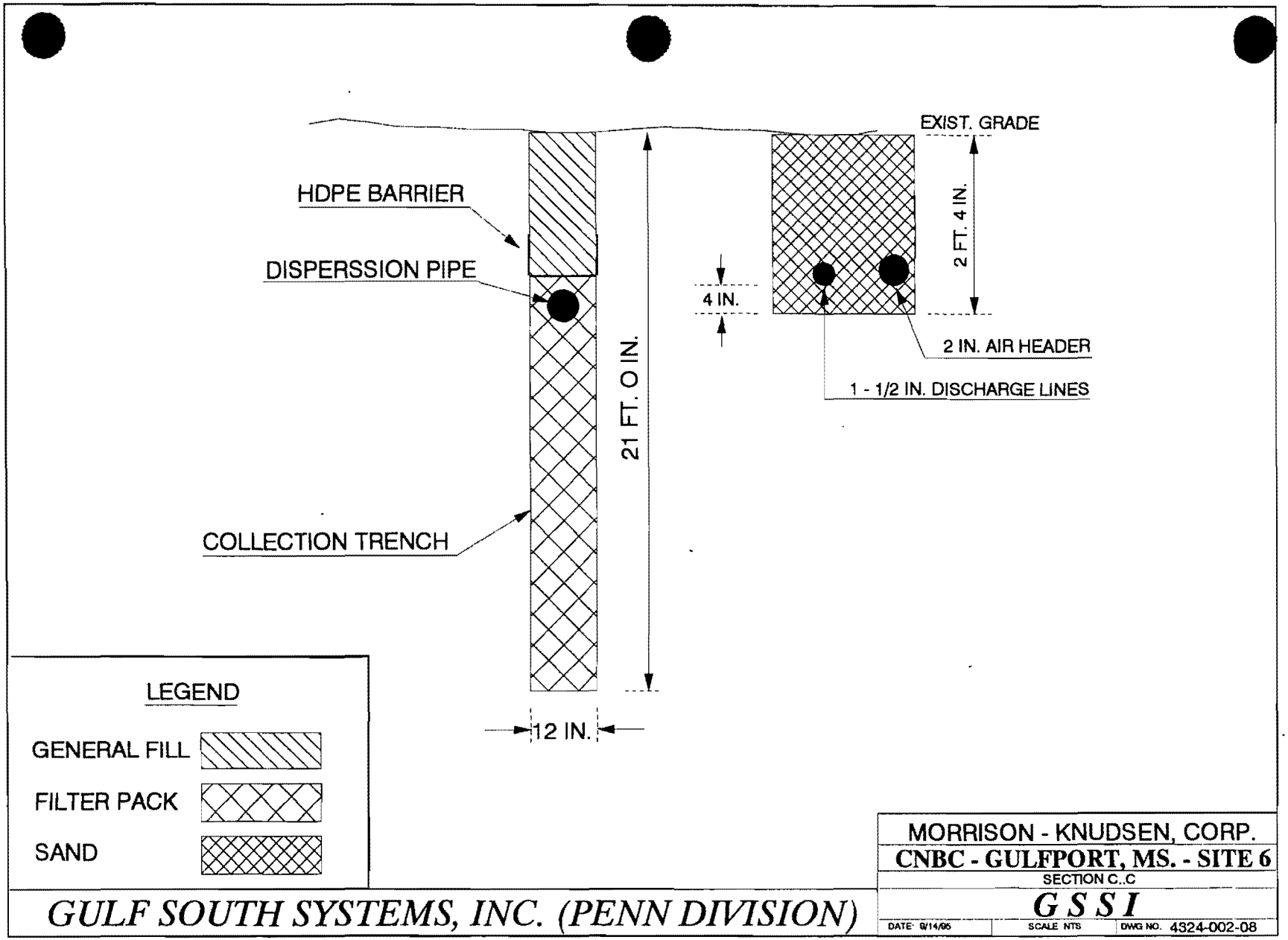


FIGURE 10
CONVEYANCE AND RECOVER TRENCHES, C-C

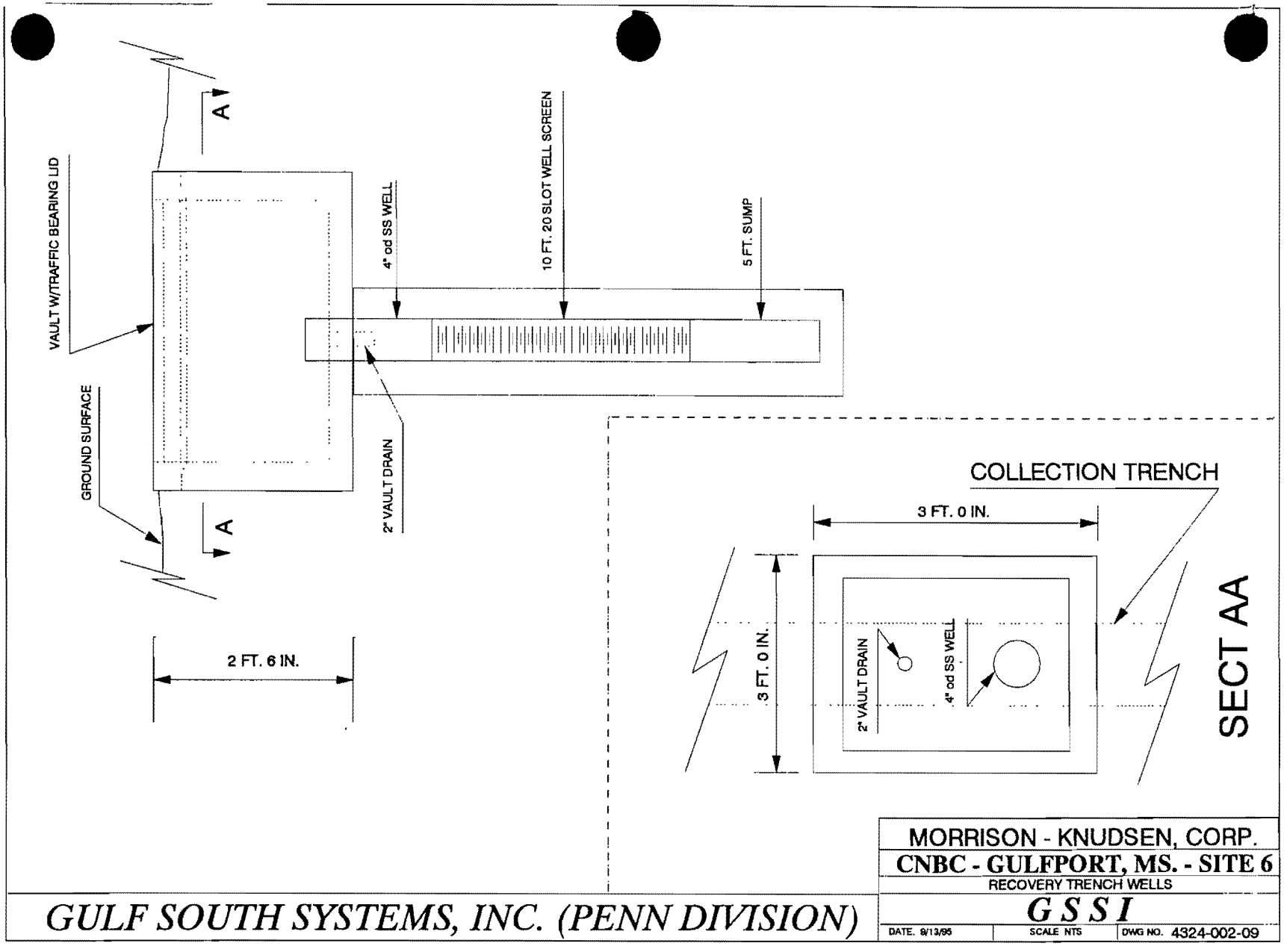


FIGURE 11
VAULT AND RECOVERY TRENCH SECTION

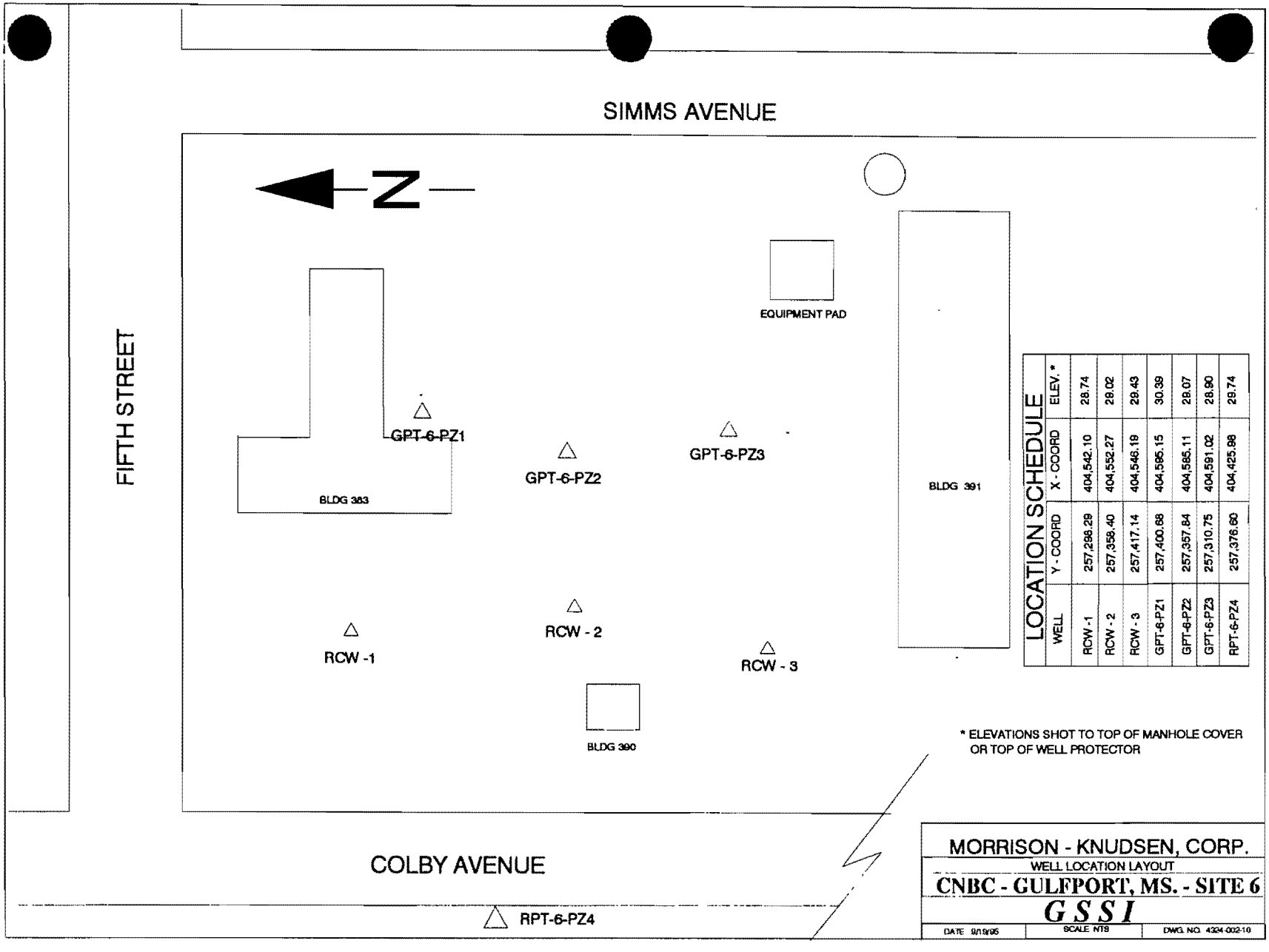
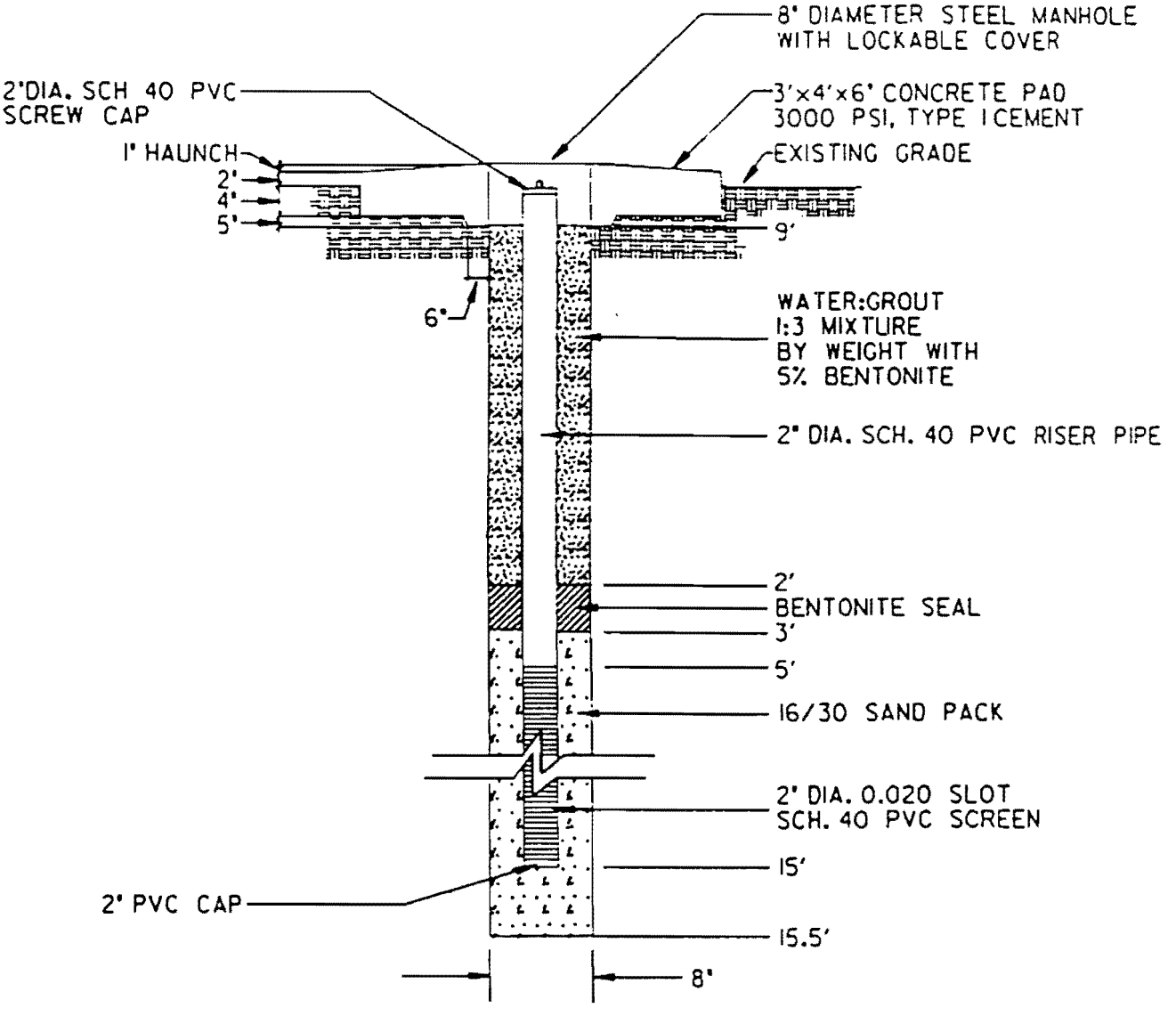


FIGURE 12
WELL LOCATIONS



MONITORING WELL DETAIL

NOT TO SCALE

FIGURE 13
MONITORING WELL DETAIL

APPENDIX A
QC SUMMARY REPORT

The Quality Control Plan was executed by Site Quality Control Supervisor (SQCS), Randy Smith. Mr. Smith implemented the procedures necessary to achieve and maintain a consistently high level of quality in the environmental remediation activities performed at CBC site 6 Gulfport, MS. Definable features of work included

- Removal and disposal of existing wooden poles.
- Monitoring well installation and development
- Recovery trench construction including excavation, soil disposal, collector well installation, and backfilling
- Conveyance trench construction including excavation, piping installation and backfilling
- Pump and treat system installation

The SQCS performed Preparatory, Initial, and Follow-up meetings and inspections per the schedule for all definable features of work. All SQCS activity reports are on the Contractor Quality Control Report attached to the Daily Report on file at PMO North Charleston, SC. These reports were turned in daily to the ROICC on site at CBC Gulfport, MS.

SQCS examined all required materials and equipment, and sample work to ensure that material and equipment are on hand and conforms to the approved shop drawing and submitted data.

SQCS at site 6 Gulfport performed all Analytical field sampling for the site. Also maintained Chain-of-Custody and all other records generated through the field and laboratory efforts and were kept with the Quality Assurance records in the project file.

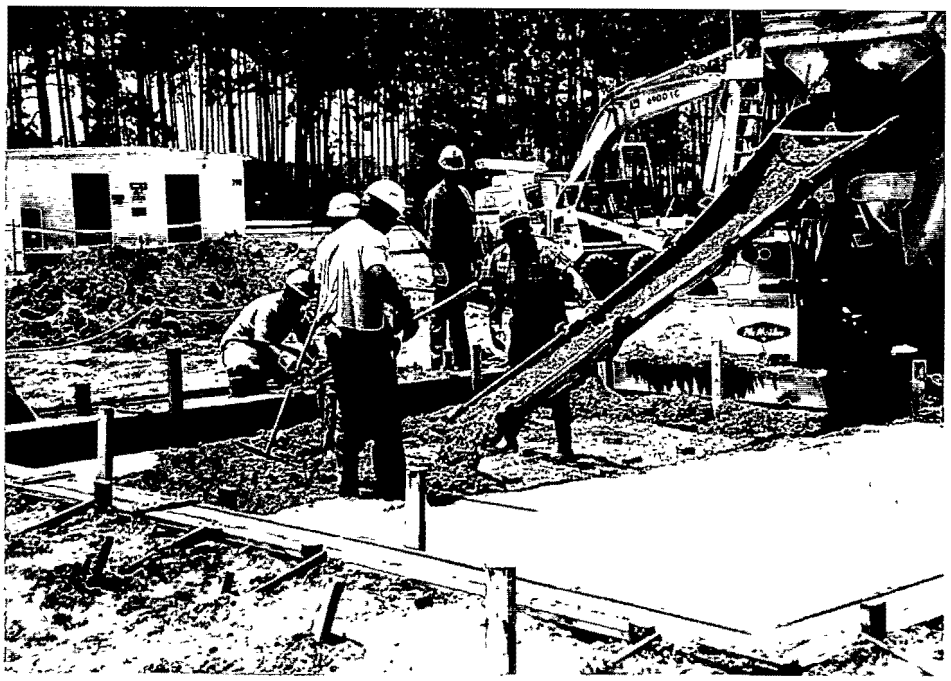
There was one rework item during the features of work. The equipment pad that was placed on 6-8-95 was rejected, and re-poured on 6-15-95 and accepted. Also verified the removal of rejected concrete from site to off base landfill.

APPENDIX B
SITE CONSTRUCTION PHOTOGRAPHS

Selected photos with captions are enclosed. The full complement of project photographs are available from the MK Program Management Office in North Charleston, South Carolina.

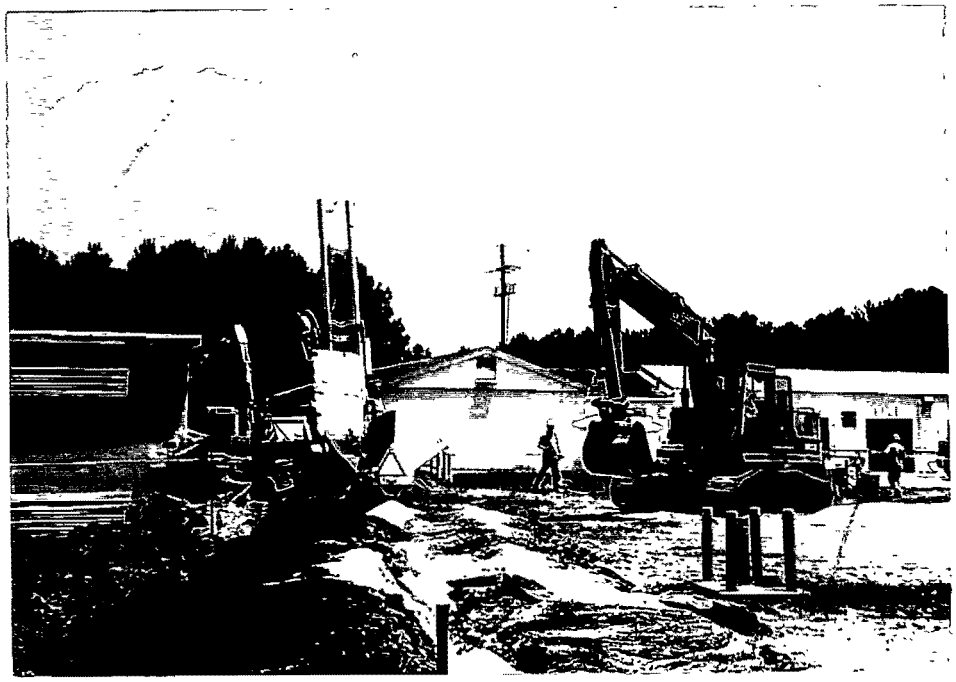
SITE 6 BEFORE CONSTRUCTION

ELECTRICAL POLE REMOVAL



INSTALLATION OF EQUIPMENT PAD

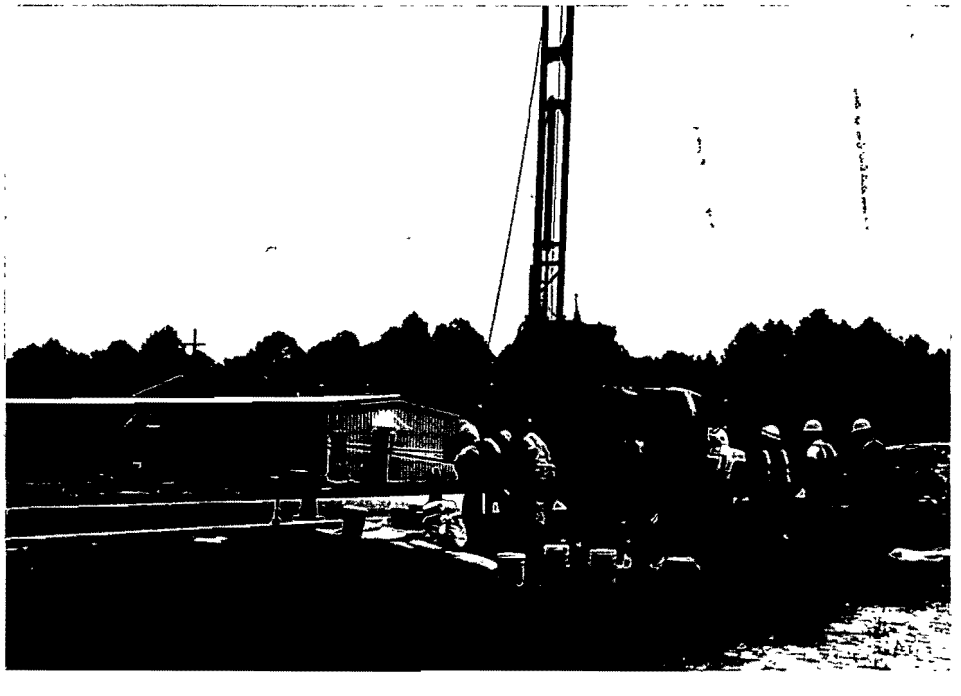
COMPLETED EQUIPMENT PAD



INSTALLATION OF COLLECTION TRENCH

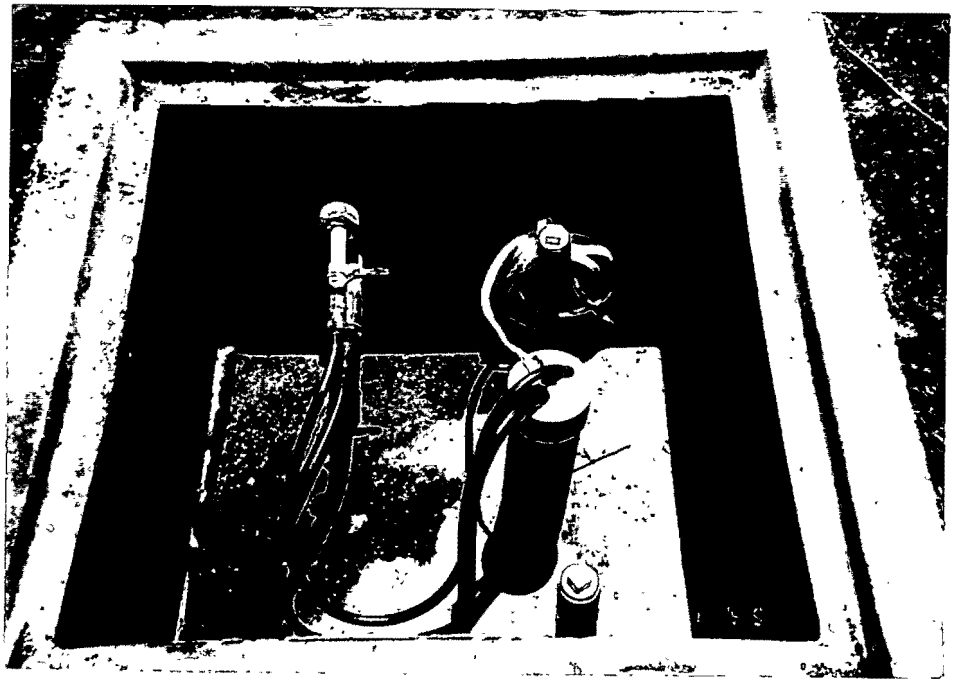
INSTALLATION OF COLLECTION TRENCH

INSTALLATION OF CONVEYANCE TRENCH

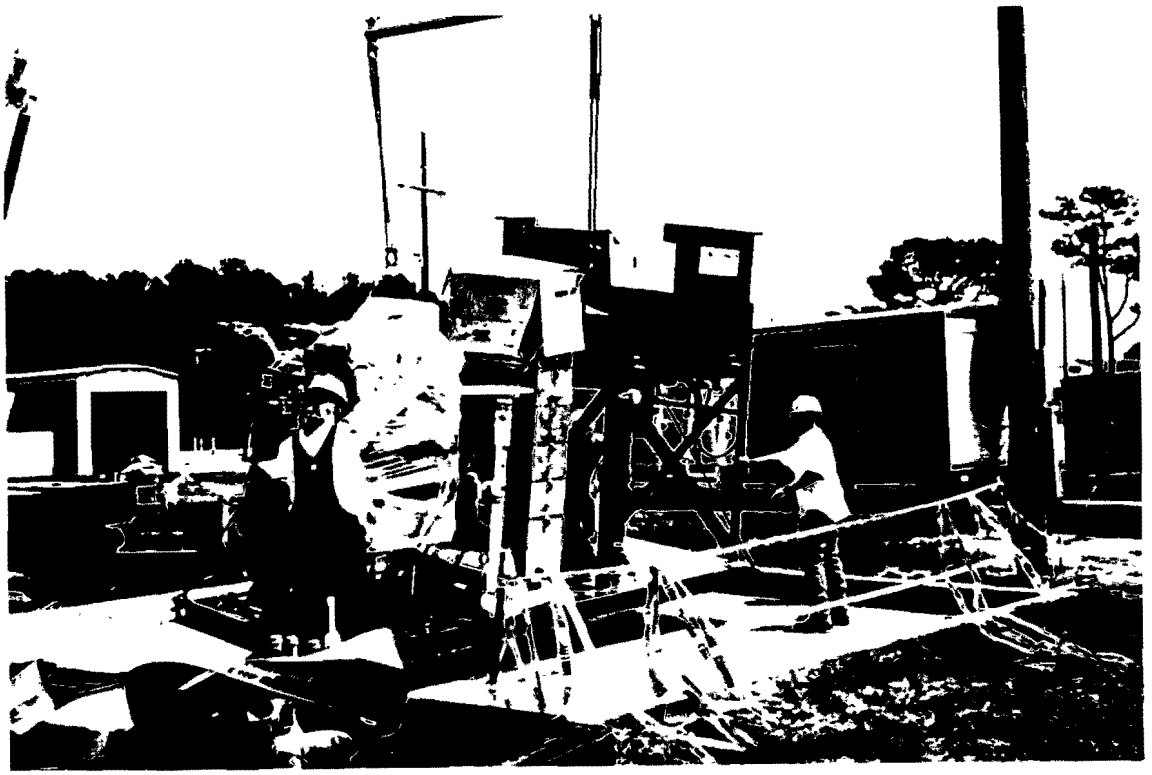


INSTALLATION OF MONITORING WELL

INSTALLATION OF RECOVERY WELL



COMPLETED WELL VAULT



INSTALLATION OF TREATMENT EQUIPMENT

COMPLETED TREATMENT SYSTEM

APPENDIX C
BOREHOLE LOGS

The enclosed Borehole Logs for the three collection wells and four monitoring wells were recorded by MK-staff Geologist Ulrich Cordon at NCBC site 6 Gulfport, MS location. Also enclosed are the well development reports for all wells.

MORRISON KNUDSEN CORPORATION
ENVIRONMENTAL SERVICES DIVISION

BOREHOLE LOG

Sheet 1 of 1

Subcontract Number: 4324-0002

Hole Number: GPT-6-PZ 1

Project: NCBC Gulfport MS.	Location: Site 6 - NCBC		
Coordinates:	Drilling Contractor: GES	Geophysical Logger: N/A	
Drill Make and Model: MOBILE - B53 (truck mounted auger rig)	Depth Top of Rock: Ø	Depth Casing & Size: Ø	Hole Size: 8"
Elevation:	Angle from Vert. and Bearing: Ø	Depth Bottom of Hole: 16' 2"	
Water Level: 5' 4"	Fluid & Additives: Ø	Date Start: 7/12/95	Date Finish: 7/12/95	Geologist: V. Cordon

ELEVATION (ft.) / DEPTH BELOW SURFACE	DRILLING CONDITIONS (Penetration rates; Lost circulation zones; Cementing zones; Test zones; Tool changes)	Graphic Log	DESCRIPTION (Lithology, grain size, textures, structures, weathering, alteration, color, cementation, hardness, mineralogy.)	Samples
	5-ft. flight, hollow-stem augers I.D. = 4¼" O.D. = 8"		ASPHALT	
			FILL - Lt. brn, dry, Loose, silty sand (SM), fine to med. sand, tr. gravel	
	Slow drilling (1-4 ft/min) 2.5'			
	Resume [illegible] lbs.		Dk. brn - blk, damp, Loose, fine-med. silty sand (SM) (SM-ML)	
5			[Soil appears contaminated; strong vapor; OVA shows > 30 ppm organic vapors.]	
	▼			
	7.5'		Dk. brn - grey, moist, Loose, silty sand (SM); Less silt than above; fine-med. sand	
10			——— moist after 10'	
			——— sl. change in color to brn.	
15			BOH = 16'2"	
20				

MORRISON KNUDSEN CORPORATION
ENVIRONMENTAL SERVICES DIVISION

BOREHOLE LOG

Sheet 1 of 1

Subcontract Number: 0320-0002

Hole Number: GPT-6-PZ2

Project: NCBC Gulfport, MS.		Location: Site 6 - NCBC	
Coordinates:		Drilling Contractor: GES	Geophysical Logger: N/A
Drill Make and Model: MOBILE - B53 (Truck mounted auger rig)	Depth Top of Rock: Ø	Depth Casing & Size: Ø	Hole Size: 8"
Elevation:	Angle from Vert. and Bearing: Ø	Depth Bottom of Hole: 16'6"	
Water Level: 4'1"	Fluid & Additives:	Date Start: 1/12/95	Date Finish: 1/12/95
Geologist: D. Cordon			

ELEVATION (ft.) / DEPTH BELOW SURFACE	DRILLING CONDITIONS Penetration rates Lost circulation zones Cementing zones Test zones Tool changes	Graphic Log	DESCRIPTION Lithology, grain size, textures, structures, weathering, alteration, color, cementation, hardness, mineralogy.	Samples
0	5-ft. flight, hollow-stem augers I.D. = 7¼" O.D. = 8"		FILL — brn., loose, dry, silty sand (SM)	
	Penetration rate (1-6 ft/min)		— dk. brn. - blk, moist, loose, silty sand (SM) - (SM-ML) w/ some clay [Contaminated soil; no vapors]	
5	Rig Pressure @ 900 lbs.		— becoming wet after 5', dk. grey-grey SM	
	OVA reading = 0 ppm		— grey-brn., wet, loose, silty sand (SM)	
10			— dk. brn. SM	
15			BOH = 16'6"	
20				

MORRISON KNUDSEN CORPORATION
ENVIRONMENTAL SERVICES DIVISION

BOREHOLE LOG

Sheet 1 of 1

Subcontract Number: 4329-000.2

Hole Number: GPT-6-PZ3

Project: NCBC Gulfport, MS.	Location: Site 6 - NCSC		
Coordinates:	Drilling Contractor: GES	Geophysical Logger: N/A	
Drill Make and Model: MOBILE-B53 (Truck mounted auger rig)	Depth Top of Rock: ∅	Depth Casing & Size: ∅	Hole Size: 8"
Elevation:	Angle from Vert. and Bearing: ∅	Depth Bottom of Hole: 16'6"	
Water Level: 4'1"	Fluid & Additives: ∅	Date Start: 7/12/95	Date Finish: 7/12/95	Geologist: V. Cordon

ELEVATION (ft.) / DEPTH BELOW SURFACE	DRILLING CONDITIONS Penetration rates Lost circulation zones Cementing zones Test zones Tool changes	Graphic Log	DESCRIPTION Lithology, grain size, textures, structures, weathering, alteration, color, cementation, hardness, mineralogy.	Samples
	5-ft flight, hollow stem auger I.D. = 4¼" O.D. = 8" Rig pressure = 100 lbs. Penetration rate = (1-5 ft/min)		- DK. brn-blk, damp, Loose, fine-med. silty sand (SM) - (SM-ML); tr. clay [Contaminated soil]	
5	5' OVA reading (0-5') = 20ppm drops to 0 after 5' (OVA reading in breathing zone is < 5ppm)		- DK grey, moist-wet, Loose, fine-med, silty sand (SM)	
10			- Grey color (SM), less silt	
15			- DK. brn. color (SM), more silt than above. BOH - 16'6"	
20				

MORRISON KNUDSEN CORPORATION

ENVIRONMENTAL SERVICES DIVISION

BOREHOLE LOG

Sheet 1 of 1

Subcontract Number: 4320-0002

Hole Number: GPT-6-PZ4

Project: NCBC Gulfport, MS	Location: Site 6 - NCBC (across street)		
Coordinates:	Drilling Contractor: GES	Geophysical Logger: N/A	
Drill Make and Model: MOBILE - B53 (Truck mounted auger rig)	Depth Top of Rock: Ø	Depth Casing & Size: Ø	Hole Size: 7"
Elevation:	Angle from Vert. and Bearing: Ø	Depth Bottom of Hole: 16'6"	
Water Level: 5'	Fluid & Additives: Ø	Date Start: 7/12/95	Date Finish: 7/12/95
Geologist: D. Cordon			

ELEVATION (ft.) / DEPTH BELOW SURFACE	DRILLING CONDITIONS (Penetration rates; Lost circulation zones; Cementing zones; Test zones; Tool changes)	Graphic Log	DESCRIPTION (Lithology, grain size, textures, structures, weathering, alteration, color, cementation, hardness, mineralogy.)	Samples
0	5-¼ flight, hollow-stem auger. I.D. = 4¼" O.D. = 8"		FILL (for road) - brn, dry, Loose, silty sand (SM) w/ tr. gravel	
1'			Dk. brn, dry, loose, silty sand (SM)	
	Penetration rate: 3 ft/min.		— 4' color change to Lt. brn. SM	
5 ▼			— 5' color change to dk. brn. SM, damp, tr. organics (blk)	
			— moist-wet, Lt. brn. SM., tr. gravel	
10	OVA readings = 0 ppm.		— 10' dk. brn. SM	
15			BOH = 16'6"	
20				

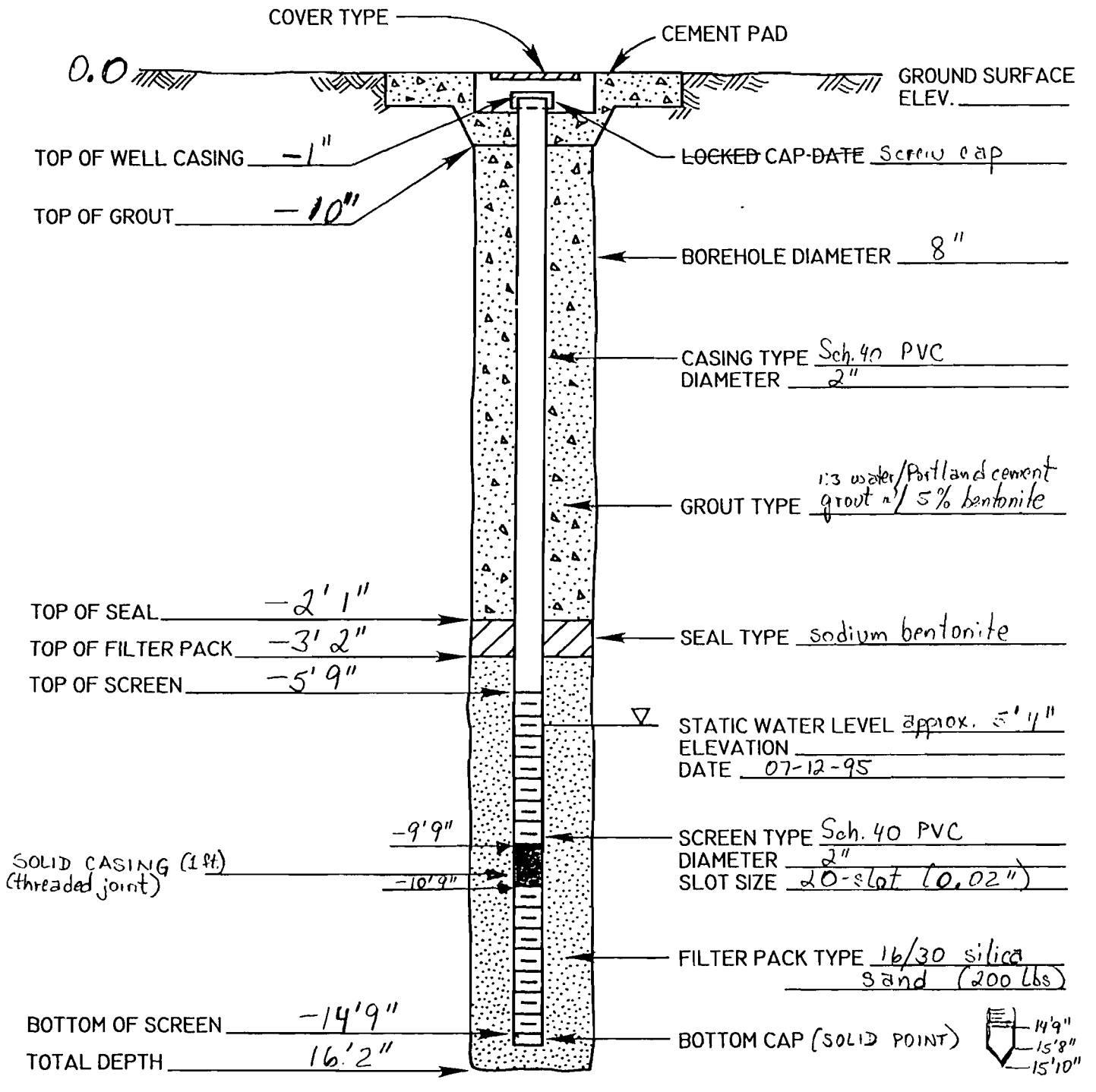
WELL COMPLETION RECORD

PROJECT NCBC Gulfport, Miss. (SoDiv) LOCATION NCBC - Site 6

WELL NUMBER GPT-6-PZ1 DATE INSTALLED 07-12-95

MKE REPRESENTATIVE ULRICH J. CORDON DRILLER GES

MKE QA/QC REP: RANDY SMITH



MORRISON KNUDSEN CORPORATION

ENVIRONMENTAL SERVICES DIVISION

FIGURE

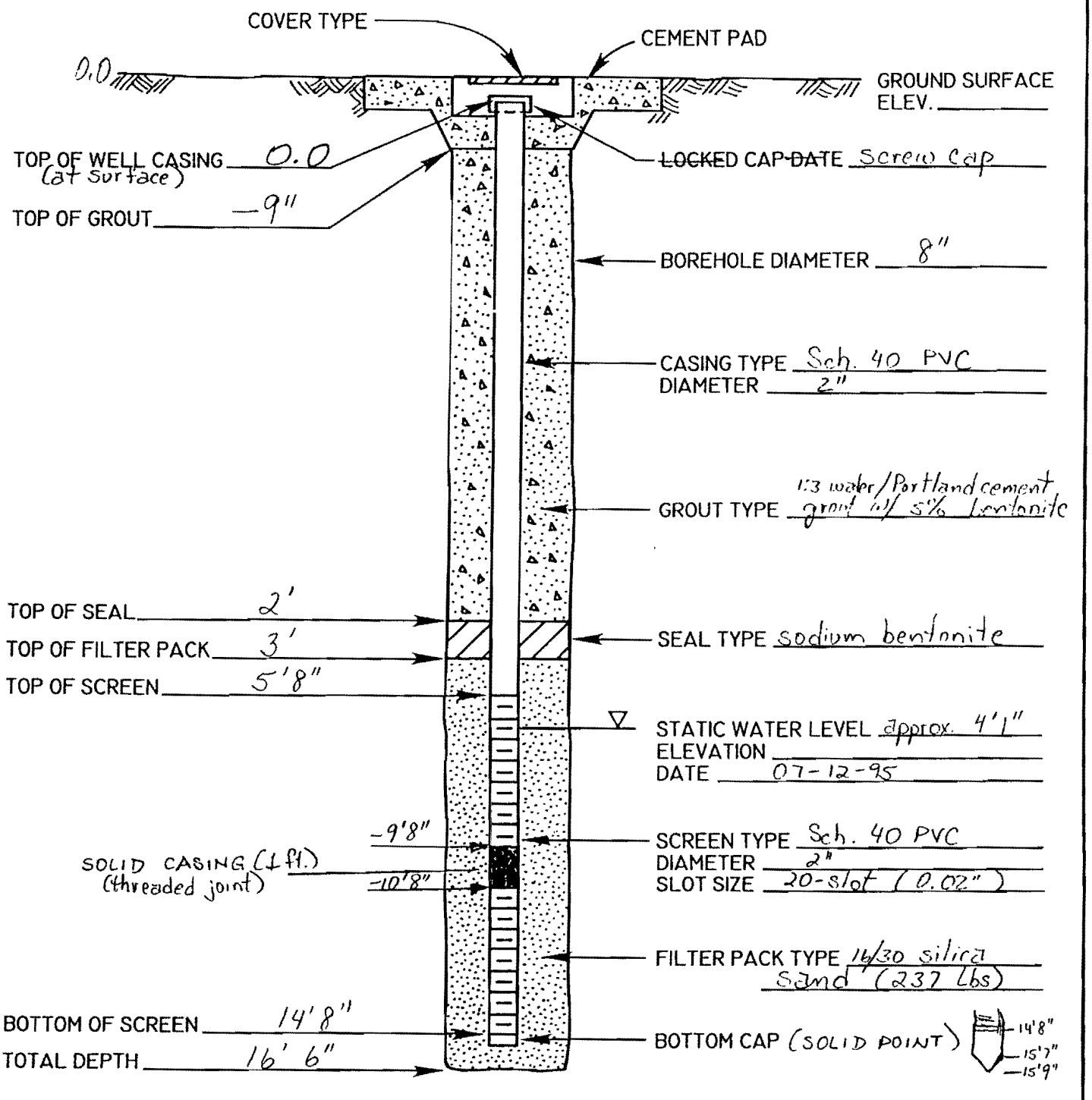
WELL COMPLETION RECORD

PROJECT NCBC Gulfport, Miss (So Div) LOCATION NCBC - Site 6

WELL NUMBER GPT-6-PZ2 DATE INSTALLED 07-12-95

MKE REPRESENTATIVE ULRICH J. CORDON DRILLER GES

MKE QA/QC REP: RANDY SMITH



MORRISON KNUDSEN CORPORATION

ENVIRONMENTAL SERVICES DIVISION

FIGURE

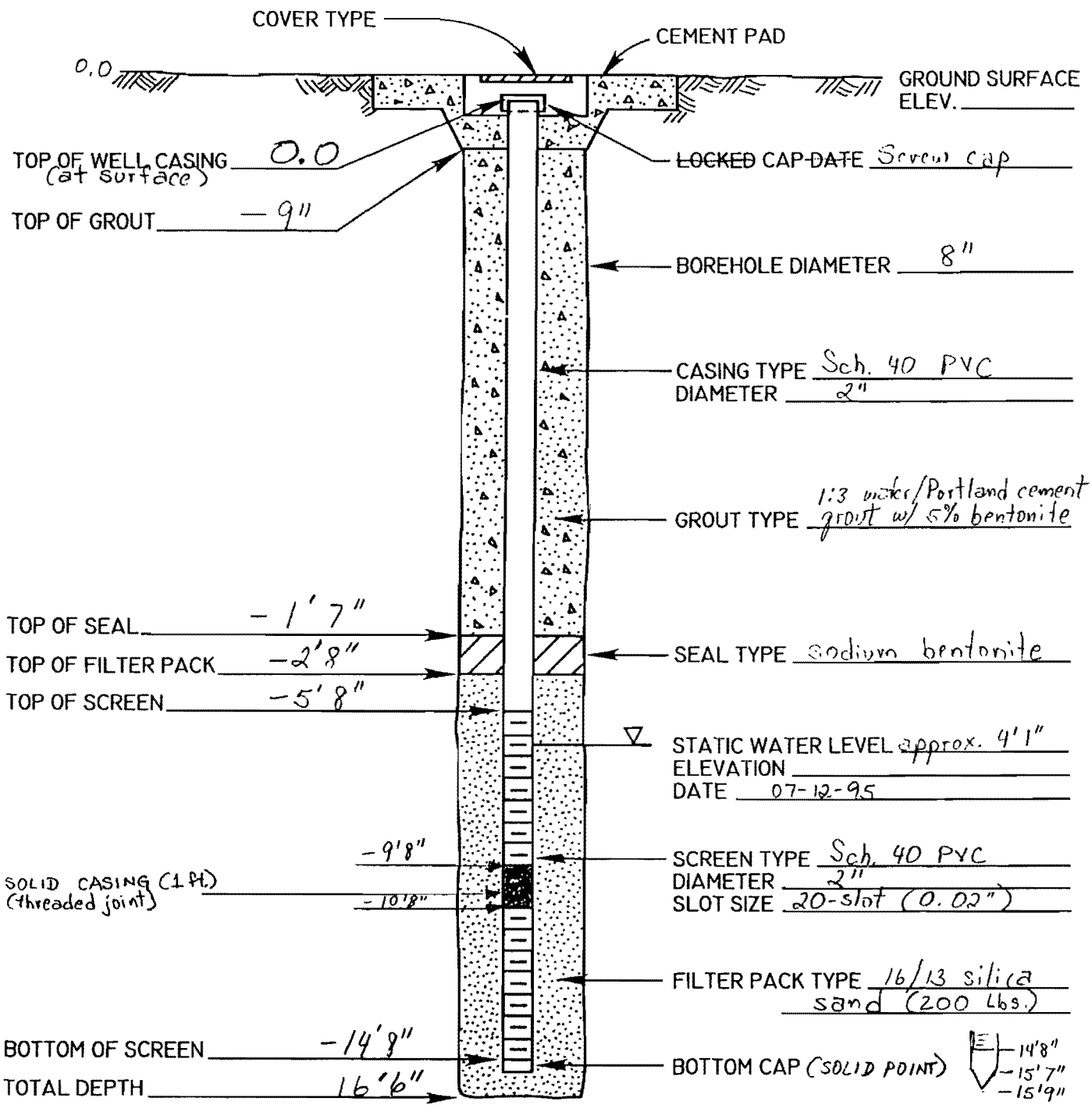
WELL COMPLETION RECORD

PROJECT NCBC Gulfport, Miss (So Div) LOCATION NCBC - Site 6

WELL NUMBER GPT-6-PZ3 DATE INSTALLED 07-12-95

MKE REPRESENTATIVE ULRICH J. CORDON DRILLER GES

MKE QA/QC REP: RANDY SMITH



MORRISON KNUDSEN CORPORATION

ENVIRONMENTAL SERVICES DIVISION

FIGURE

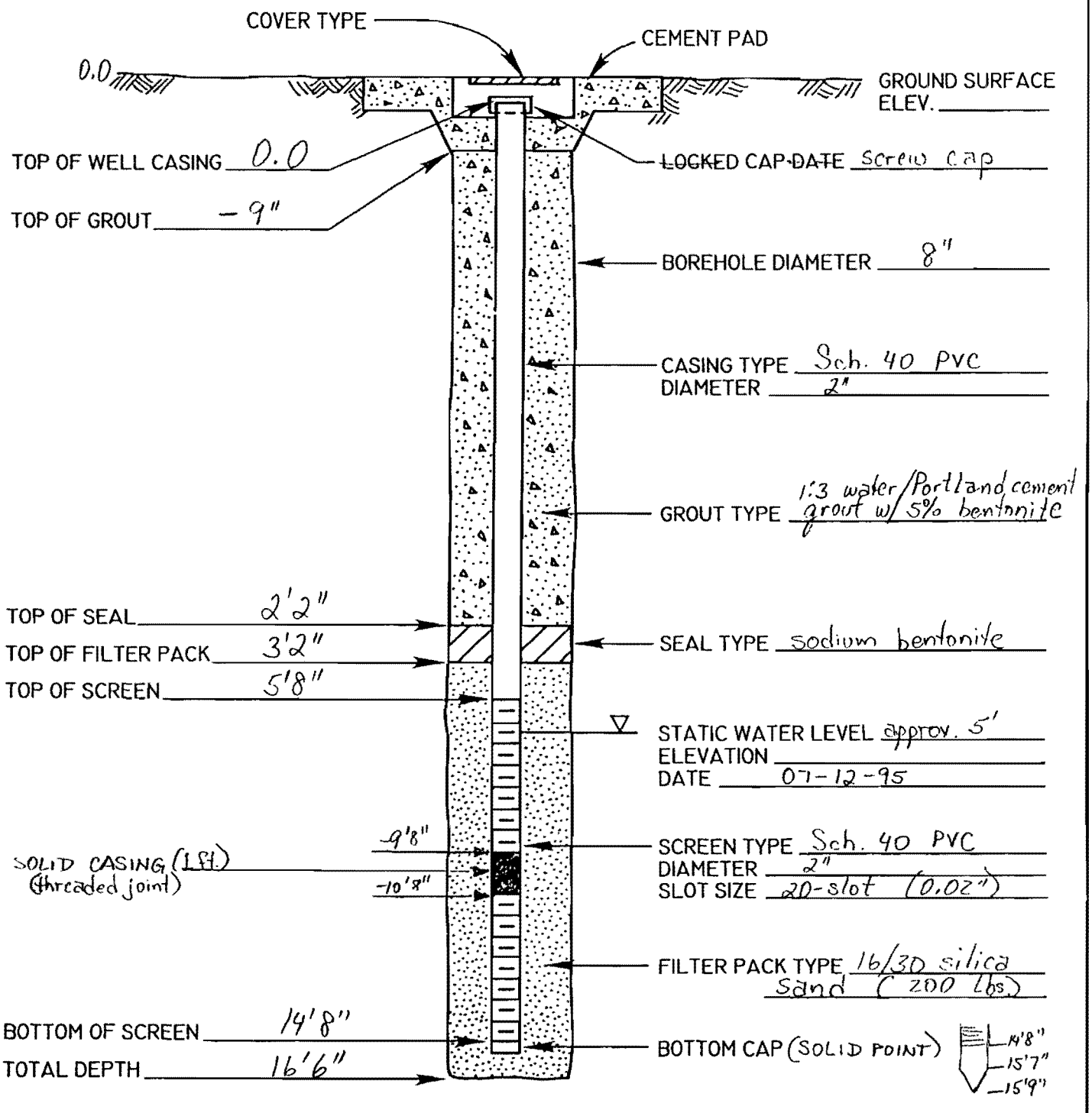
WELL COMPLETION RECORD

PROJECT NCBC Gulfport, Miss LOCATION NCBC - Site 6

WELL NUMBER GPT-6-PZ4 DATE INSTALLED 07-12-95

MKE REPRESENTATIVE ULRICH J. CORDON DRILLER GES

MKE QA/QC REP: RANDY SMITH



MORRISON KNUDSEN CORPORATION

ENVIRONMENTAL SERVICES DIVISION

FIGURE

MK-BLD

~~WATER SAMPLING FIELD DATA~~

~~SAMPLE LOCATION~~ PZ-1 WELL DEVELOPMENT

DATE: 7/11/95 **~~SAMPLED BY:~~** [signature] R SMITH

Initial Static Water Level from MP 5'4" **at** _____

Total Depth from MP: 15'10" to bottom of pipe; hole depth = 16'2"

Pumping Method Used: 5gpm electric pump

Time Pump Turned On: 12:01 **Off:** 12:14

Flow Rate Range: ~5 gpm

Total Gallons Purged: —

Time Well Sampled: — **Duplicate Taken:** —

Time	Min. Purged	Temp °C	Cond.	pH	Measured Flow Rate	Adjusted Flow Rate	Manual Water Level	Comments
12:06		63F	115	4.62	5/1:30	3.33 G	5'4"	
12:10		63F	114	4.93	5/1:30	"		
1212		62F	110	4.95	5/1:30	"		

Comments: equilibrium reached based on the 3 parameters listed above; turbidity test will be done in lab. (Sample showed water is brn) V. Cordon

3 Vol = 4.76 gal. MK geologist

1.6

MK-BLD

~~WATER SAMPLING FIELD DATA~~

~~SAMPLE LOCATION~~ PZ 2 WELL DEVELOPMENT

DATE: 7/14/95 SAMPLED BY: RDi R. SMITH

Initial Static Water Level from MP 4'-1 at _____

Total Depth from MP: 11'-6"

Pumping Method Used: HAND BAILER - 5 MINS.

Time Pump Turned On: 11:35 Off: 11:49

Flow Rate Range: —

Total Gallons Purged: N/A

Time Well Sampled: — Duplicate Taken: —

Time	Min. Purged	Temp °C	Cond.	pH	Measured Flow Rate	Adjusted Flow Rate	Manual Water Level	Comments
1142		60°F	547	4.43	5/1:05	4.6 gpm	4'-1 3/4"	
1143		60°F	507	4.42	5/1:05			
11:45		59°F	493	4.42	5/1:05			
11:46		55°F	532	4.55	5/1:05	4.1		
11:47		55°F	469	4.59	5/1:05	"		
11:48		58°F	465	4.61	"	"		

Comments: equilibrium reached based on the 3 parameters listed above. Turbidity sample taken & will be analyzed in lab. (Water color: brn.)

3 Vol. = 5.58 gals

U. Perdue
MK geologist

MK-BLD

~~WATER SAMPLING FIELD DATA~~

SAMPLE LOCATION PZ 3 WELL DEVELOPMENT

DATE: 7/11/95 **SAMPLED BY:** R. SMITH

Initial Static Water Level from MP 4'-1" **at** Top of Csg

Total Depth from MP: 11'-6"

Pumping Method Used: HAND BAILER - 5 MINS.

Time Pump Turned On: 11:05 **Off:** 11:20

Flow Rate Range:

Total Gallons Purged: N/A

~~Time Well Sampled:~~ — **~~Duplicate Taken:~~** —

Time	Min. Purged	Temp °C	Cond.	pH	Measured Flow Rate	Adjusted Flow Rate	Manual Water Level	Comments
11:15	—	--			5/1.06	4.55 G	4'-1"	
11:15	—	61	596	4.23	5/1.06		BTC	
11:16	—	60	555	4.91	5/1.06			
11:17	—	60	538	4.86	5/1.06			
11:18	—	58	506	4.70	5/1.06			
11:19	—	58	498	4.71	5/1.06			

Comments: equilibrium reached, based on the 3 parameters listed above. Sample taken for turbidity analysis in lab (Water color: dirty)

V. Cordova

2 VOLS = 5.58 GAL

MK Geologist

MK-BLD

~~WATER SAMPLING FIELD DATA~~

~~SAMPLE~~ LOCATION P24 WELL DEVELOPMENT

DATE: 7/14/95 ~~SAMPLED BY:~~ RH R. SMITH

Initial Static Water Level from MP 5'0" at _____

Total Depth from MP: 10'7"

Pumping Method Used: HAND BAILER - 5 MINS

Time Pump Turned On: 12:37 Off: 12:56

Flow Rate Range: _____

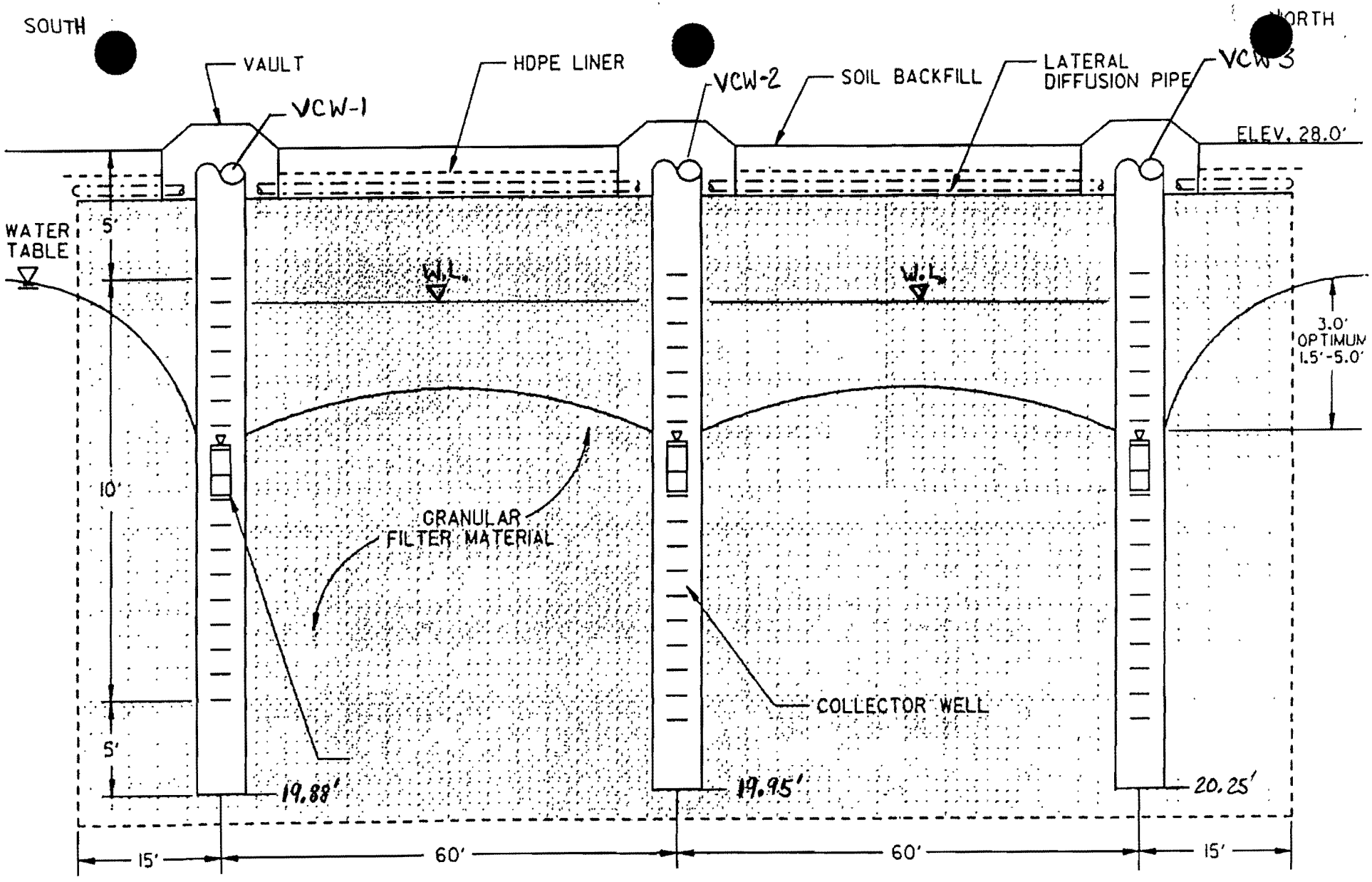
Total Gallons Purged: N/A

~~Time Well Sampled~~: _____ ~~Duplicate Taken~~: _____

Time	Min. Purged	Temp °C	Cond.	pH	Measured Flow Rate	Adjusted Flow Rate	Manual Water Level	Comments
12:46		60°F	51	5.20	5/1:05	4.66	5'0"	
12:48		60°F	52	5.14	5/1:05	"		
12:50		60°F	55	5.26	"	"		
12:51		60°F	55	5.25	"	"		

Comments: equilibrium reached, based on the 3 parameters listed above. Sample taken for turbidity analysis in lab. (Water color: brn.)
V. Condon (MK geologist)

5.146 gals = 5 VOL



NOTES:

DRAWING NOT TO SCALE

ALL ELEVATIONS ARE MEAN LOW WATER

WELL COMPLETION

FIGURE 13
RECOVERY TRENCH SECTION

MORRISON KNUDSEN CORPORATION
ENVIRONMENTAL SERVICES DIVISION

BOREHOLE LOG

Sheet 1 of 1
Subcontract Number: 4324-0002-009.2.0
Hole Number: VCW-1

Project: NCBC Gulfport, MS	Location: NCBC - Site 6 (southern well)		
Coordinates:	Drilling Contractor: T. Griffith	Geophysical Logger: ϕ	
Drill Make and Model: SIMCO 2800 (Truck mounted auger rig)	Depth Top of Rock: ϕ	Depth Casing & Size: ϕ	Hole Size: (10¼")*
Elevation:	Angle from Vert. and Bearing: ~3°-5° East**	Depth Bottom of Hole: 19.88'	
Water Level: ~6' BLS	Fluid & Additives: ϕ	Date Start: 7-10-95	Date Finish: 7-10-95	Geologist: U. Cordon

ELEVATION	DEPTH BELOW SURFACE (ft.)	DRILLING CONDITIONS (Penetration rates, Lost circulation zones, Cementing zones, Test zones, Tool changes)	Graphic Log	DESCRIPTION (Lithology, grain size, textures, structures, weathering, alteration, color, cementation, hardness, mineralogy.)	Samples
	5	Augering w/ 6¼" ID, 10¼" OD, 5 ft. flight, hollow-stem augers. Wooden plug at bottom of augers prevents filter mat'l. from entering the augers; plug is pushed out by drill pipe (w/ screen) and augers were subsequently rotated out of the trench.		Cuttings from augering revealed only (gravelly) filter material from the recovery trench.	
	10	Penetration rate ≈ 2 ft/min.		w.l. ▼ approx.	
	15	Well pipe consists of stainless steel: 5 ft. riser pipe; 10 ft. wire-wrap, continuous slot screen (.02 in.); 5 ft. tail pipe; 20 ft. total Length.			
		Stick-up from (excavated) land surface: 27¼"		19.88'	
	20	** Settling of the drill rig caused a slight deviation of the auger flights		* O.D of augers; since only the well pipe remained in hole, the hole size = pipe ϕ = 4 in.	

MORRISON KNUDSEN CORPORATION
ENVIRONMENTAL SERVICES DIVISION

BOREHOLE LOG

Sheet _____ of _____
Subcontract Number: 5324-0002-0020.0.0
Hole Number: VCW-2

Project: NCBC Gulfport, MS	Location: NCBC - Site 6 (central well)		
Coordinates:	Drilling Contractor: T. Griffith	Geophysical Logger: ∅	
Drill Make and Model: SIMCO 2800 (Truck mounted auger rig)	Depth Top of Rock: ∅	Depth Casing & Size: ∅	Hole Size: (10¼")*
Elevation:	Angle from Vert. and Bearing: 0	Depth Bottom of Hole: 19.95'	
Water Level: ~ 6' BLS	Fluid & Additives: ∅	Date Start: 7-10-95	Date Finish: 7-10-95	Geologist: V. Cordon

ELEVATION	DEPTH BELOW SURFACE (ft.)	DRILLING CONDITIONS (Penetration rates; Lost circulation zones; Cementing zones; Test zones; Tool changes)	Graphic Log	DESCRIPTION (Lithology, grain size, textures, structures, weathering, alteration, color, cementation, hardness, mineralogy.)	Samples
	0	Augering w/ 6¼" ID, 10¼" OD 5-ft. flight, hollow-stem augers.		Cuttings from augering revealed only (gravelly) filter material from the recovery trench.	
		Wooden plug at bottom of augers prevents the filter matl from entering the augers; plug is pushed out by drill pipe (w/screen) and augers were subsequently rotated out of the trench.			
	5			W.L. ▼ approx.	
		Penetration rate: ~ 2 ft/min			
	10				
		Well pipe consists of stainless steel: 5 ft. riser pipe; 10 ft. wire-wrap, continuous slot screen (.02 in.); 5 ft. tail pipe; 20 ft. total length			
	15				
		STICK-UP from (excavated) land surface: 36 in.			
	20			19.95'	

* O.D. of augers; since only the well pipe remained in hole, the hole size = pipe ∅ = 4 in.

MORRISON KNUDSEN CORPORATION
ENVIRONMENTAL SERVICES DIVISION

BOREHOLE LOG

Sheet 1 of 1
Subcontract Number: 4324-0002-009.3.0
Hole Number: VCW-3

Project: NCBC Gulfport, MS.	Location: NCBC - Site 6 (northern well)		
Coordinates:	Drilling Contractor: T. Griffith	Geophysical Logger: ϕ	
Drill Make and Model: SIMCO 2800 (Truck mounted auger rig)	Depth Top of Rock: ϕ	Depth Casing & Size: ϕ	Hole Size: (10¼") *
Elevation:	Angle from Vert. and Bearing: 0	Depth Bottom of Hole: 20.25'	
Water Level: ~ 6' BLS	Fluid & Additives: ϕ	Date Start: 7-10-95	Date Finish: 7-10-95
Geologist: V. Cordon VC			

ELEVATION	DEPTH BELOW SURFACE	DRILLING CONDITIONS (Penetration rates; Lost circulation zones; Cementing zones; Test zones; Tool changes)	Graphic Log	DESCRIPTION (Lithology, grain size, textures, structures, weathering, alteration, color, cementation, hardness, mineralogy.)	Samples
	(ft.)	Augering w/ 6¼" ID, 10¼" OD 5-ft flight, hollow-stem augers.		Cuttings from augering revealed on-site (gravelly) filter material from the recovery trench	
		Wooden plug at bottom of augers prevents filter mat'l. from entering the augers; plug is pushed out by drill pipe (w/screen) and augers were subsequently rotated out of the trench.			
	5			W.L. ▼ approx.	
		Penetration rate: ~ 2 ft/min. Last 5 ft: 1 ft./min.			
	10				
		Well pipe consists of stainless steel: 5 ft. riser pipe; 10 ft. wire wrap, continuous slot screen (.02 in.); 5 ft. tailpipe; 20 ft total length			
	15				
		STICK-UP from (excavated) Land Surface: 23"			
	20			20.25'	

*OD of augers; since only the well pipe remained in hole, the hole size = pipe ϕ = 4 in.

MK-BLD

~~WATER SAMPLING FIELD DATA~~

~~SAMPLE LOCATION~~ VCW SOUTH
VCW 1 WELL DEVELOPMENT

DATE: 7-14-95 ~~SAMPLED BY:~~ RLD
R. SMITH

Initial Static Water Level from MP 4'-11" at Top of Casing
Total Depth from MP:
Pumping Method Used: HAND BAILED - 5 GALLONS
Time Pump Turned On: 10:10 Off:
Flow Rate Range:
Total Gallons Purged: 15%
~~Time Well Sampled~~: — ~~Duplicate Taken~~: —

Time	Min. Purged	Temp °C	Cond.	pH	Measured Flow Rate	Adjusted Flow Rate	Manual Water Level	Comments
0945	—	—	—	—	—	—	4'-11"	—
10:17	—	63°F	105	5.69	5/1:04	4.6Pic.	6'-4" BTC	
10:23	—	63°F	107	5.53	5/1:04			
10:25	—	62°F	107	5.54	5/1:04		6'-4"	
10:27	—	62°F	107	5.54	5/1:04			

Comments: equilibrium reached, based on the 3 parameters listed above, water sample taken for turbidity analysis in Lab. (Water color: brn).

O. Gordon
MK geologist

MK-BLD

WATER SAMPLING FIELD DATA

SAMPLE LOCATION VCW - CENTER
VCW 2 WELL DEVELOPMENT

DATE: 7/13/95 **SAMPLED BY:** A.I
R. SMITH

Initial Static Water Level from MP 5'-0" **at** Top of Casing
Total Depth from MP:
Pumping Method Used: HAND BAILER - 5 MINS
Time Pump Turned On: 843 **Off:** —
Flow Rate Range:
Total Gallons Purged: N/A
Time Well Sampled: — **Duplicate Taken:** —

MP = TOP OF CASING

Time	Min. Purged	Temp °C	Cond.	pH	Measured Flow Rate	Adjusted Flow Rate	Manual Water Level	Comments
0756	—	—	—	—	± 3 GPM	—	—	PUMP @ 57 (N.G.)
0843		61°F	~~2440~~	6.58	5 gpm		6.0 BTC	
0849		60°F	109	5.33	5 gpm		6.3 BTC	30 gal.
0851		60°F	108	5.21	5 gpm		6.3 BTC	40 "
0854		60°F	107	5.15	5 gpm		6.3 BTC	55 gal.

Comments: equilibrium reached, based on the 3 parameters listed above; Sample taken for turbidity analysis in lab. (Water color: brn)

V. Gordon
MK geologist

MK-BLD

~~WATER SAMPLING FIELD DATA~~

SAMPLE LOCATION VCW - North VCW 3 WELL DEVELOPMENT

DATE: 7-10-95 **~~SAMPLED~~ BY:** RSI / R. SMITH

Initial Static Water Level from MP 5'4" at Top of Casing

Total Depth from MP:

Pumping Method Used: HAND BAILER - 5 MINS

Time Pump Turned On: 0925 Off:

Flow Rate Range:

Total Gallons Purged: N/A

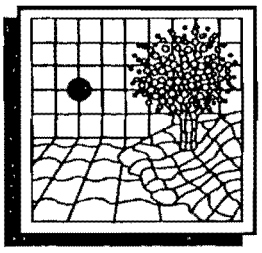
Time Well Sampled: — Duplicate Taken: —

Time	Min. Purged	Temp °C	Cond.	pH	Measured Flow Rate	Adjusted Flow Rate	Manual Water Level	Comments
0924	—	—	—	—	—	—	5'6"	
0931		61°F	114	5.31	5/1:05	4.61	10' AC	
0937		60°F	108	5.65	5/1:06	4.6	1	
0944		60°F	104	5.74	5/1:05	4.6'	1	
0951		60°F	104	5.77	5/1:05	4.61	10'5" AC	

Comments: equilibrium reached based on the 3 parameters listed above. Sample was taken for turbidity analysis in lab (under color box).

V. Cordon (MK geologist)

APPENDIX D
WASTE CHARACTERIZATION ANALYTICAL REPORTS



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

July 26, 1995

Dan Fuller
MORRISON-KNUDSEN CORPORATION
Simms Avenue
CBC Gulfport, MS 39501

Project: NCBC Gulfport
SWLO ID: 22824.01 - 22824.13

Dear Mr. Fuller:

Please find the enclosed CLP-like forms packages, and tabular reports for your samples received in our laboratory on July 7, 1995, for the above captioned project.

If, in your review, you should have any questions or require additional information, do not hesitate to call.

Sincerely,

Daryl Alstatt
Project Officer

DSA/llr
Enclosures

1700 West Albany • Broken Arrow, OK 74012-1421 • (918) 251-2858 • Fax (918) 251-2599

MORRISON-KNUDSEN CORPORATION
ENVIRONMENTAL SERVICES DIVISION

CHAIN OF CUSTODY RECORD

Laboratory: SOUTHWEST LABORATORY OF OKLAHOMA		Project Number: 4324-0002	Project Name: NCBC - GULFPORT MS
Task Number: SWLI - 001	Task Name: SITE 6 - FIRE FIGHTING TRAINING AREA	Airbill Number: 584721150	Custody Seal Number(s): N/A
Samplers Signature:			

Site Number	Date	Time	Sample Identification	Site Description	No. of Cont.	Analyses Requested (5 DAY TURNAROUND)	Remarks
6	7/6/95	1:16	GPT\P01RC101	RECOVERY TRENCH	1-4oz	8240	ROLL-OFF # 438 & 62
6			"		1-4oz	418.1R	
6			"		1-8oz	1311, 6010, 8080, 8150	
6			"		1-8oz	EPA 7.3.3.2 ; 7.3.4.1 9045, 9095, EPA 7.1.2.2.	
X							
6	7/6/95	1:26	GPT\P01RC102		1-4oz	8240	ROLL-OFF # 323 & 393
6			"		1-4oz	418.1R	
6			"		1-8oz	1311, 6010, 8080, 8150	
6			"		1-8oz	EPA 7.3.3.2, 7.3.4.1, 7.1.2.2 9045, 9095	
X							
6	7/6/95	1:46	GPT\P01RC11D		1-4oz	8240	438 & 62 DUPLICATE
6			"		1-4oz	418.1R	
6			"		1-8oz	1311, 6010, 8080, 8150	
6			"	RECOVERY TRENCH	1-8oz	EPA 7.3.3.2, 7.3.4.1, 7.1.2.2 9045, 9095	

Relinquished by: (Sig.)	Secured by: (Sig.)	Date: Time:	Received by: (Sig.)	Relinquished by: (Sig.)	Date: Time:
Received by: (Sig.)	Relinquished by: (Sig.)	Date: Time:	Received by: (Sig.)	Relinquished by: (Sig.)	Date: Time:
Received by Laboratory by: (Sig.)	Date: 7/7/95 Time: 1000	Remarks			

8°C

MORRISON KNUDSEN CORPORATION
ENVIRONMENTAL SERVICES DIVISION

CHAIN OF CUSTODY RECORD

Laboratory: SOUTHWEST LABORATORY OF OKLAHOMA		Project Number: 4324-0002	Project Name: NCBC - GULFPORT MS
Task Number: SWLI - 001	Task Name: SITE 6 - FIRE FIGHTING TRAINING AREA	Airbill Number: 5847211510	Custody Seal Number(s): N/A
Samplers Signature:			

Site Number	Date	Time	Sample Identification	Site Description	No. of Cont.	Analyses Requested (5 DAY TURNAROUND)	Remarks
6	7/6/95	1:36	GPT\ P01RC103	RECOVERY TRENCH	1-40Z	8240	ROLL-OFF # 189 & 293
6			"		1-40Z	418.1R	
6			"		1-8OZ	1311, 6010, 8080, 8150	
6			"		1-8OZ	EPA 7.3.3.2 & 7.3.4.1 9045, 9095, EPA 7.1.2.2	
X							
6	7/6/95	1:56	GPT\ P01RC104		1-40Z	8240	ROLL-OFF # 391 & 439
6			"		1-40Z	418.1R	
6			"		1-8OZ	1311, 6010, 8080, 8150	
6			"		1-8OZ	EPA 7.3.3.2, 7.3.4.1, 7.1.2.2 9045, 9095	
X							
6	7/6/95	2.06	GPT\ P01RC105		1-40Z	8240	ROLL-OFF # 191 & 143
6			"		1-40Z	418.1R	
6			"		1-8OZ	1311, 6010, 8080, 8150	
6			"	RECOVERY TRENCH	1-8OZ	EPA 7.3.3.2, 7.3.4.1, 7.1.2.2 9045, 9095	

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Received by: (Sig.)	Relinquished by: (Sig.)	Date: Time:	Received by: (Sig.)	Relinquished by: (Sig.)	Date: Time:
Received by Laboratory by: (Sig.)	Date: 7/7/95 Time: 1000	Remarks			

8 of

MORRISON KNUDSEN CORPORATION
ENVIRONMENTAL SERVICES DIVISION

CHAIN OF CUSTODY RECORD

Laboratory: SOUTHWEST LABORATORY OF OKLAHOMA		Project Number: 4324-0002	Project Name: NCBC - GULFPORT, MS
Task Number: SWLI - 001	Task Name: SITE 6 - FIRE FIGHTING TRAINING AREA	Airbill Number: 5847211510	Custody Seal Number(s): N/A
Samplers Signature:			

Site Number	Date	Time	Sample Identification	Site Description	No. of Cont.	Analyses Requested (5 DAY TURNAROUND)	Remarks
6	7/6/95	2:16	GPT\ P01RC106	RECOVERY TRENCH	1-40Z	8240	ROLL-OFF # 56 & 373
6			"		1-40Z	418.1R	
6			"		1-8OZ	1311, 6010, 8080, 8150	
6			"		1-8OZ	EPA 7.3.3.2 ; 7.3.4.1 9045, 9095, EPA 7.1.2.2.	
X							
6	7/6/95	2.26	GPT\ P01RC107		1-40Z	8240	ROLL-OFF # 14 & 194
6			"		1-40Z	418.1R	
6			"		1-8OZ	1311, 6010, 8080, 8150	
6			"		1-8OZ	EPA 7.3.3.2, 7.3.4.1, 7.1.2.2 9045, 9095	
X							
6	7/6/95	2:36	GPT\ P01RC108		1-40Z	8240	ROLL-OFF # 40 & 239
6			"		1-40Z	418.1R	
6			"		1-8OZ	1311, 6010, 8080, 8150	
6			"	RECOVERY TRENCH	1-8OZ	EPA 7.3.3.2, 7.3.4.1, 7.1.2.2 9045, 9095	

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Received by: (Sig.)	Relinquished by: (Sig.)	Date: Time:	Received by: (Sig.)	Relinquished by: (Sig.)	Date: Time:
Received by Laboratory by: (Sig.)	Date: 7/7/95 Time: 1000	Remarks			7.0 C

MORRISON KNUDSEN CORPORATION
ENVIRONMENTAL SERVICES DIVISION

CHAIN OF CUSTODY RECORD

Laboratory: SOUTHWEST LABORATORY OF OKLAHOMA		Project Number: 4324-0002	Project Name: NCBC - GULFPORT, MS
Task Number: SCLI - 001	Task Name: SITE 6 - FIRE FIGHTING TRAINING AREA	Airbill Number: 5847211510	Custody Seal Number(s): N/A
Samplers Signature:			

Site Number	Date	Time	Sample Identification	Site Description	No. of Cont.	Analyses Requested (5 DAY TURNAROUND)	Remarks
6	7/6/95	2:46	GPT\ P01RC109	RECOVERY TRENCH	1-40Z	8240	ROLL-OFF # 119 & 260
6			"		1-40Z	418.1R	
6			"		1-8OZ	1311, 6010, 8080, 8150	
6			"		1-8OZ	EPA 7.3.3.2 ; 7.3.4.1 9045, 9095, EPA 7.1.2.2.	
X							
6	7/6/95	2:56	GPT\ P01RC110		1-40Z	8240	ROLL-OFF # 152 & 148
6			"		1-40Z	418.1R	
6			"		1-8OZ	1311, 6010, 8080, 8150	
6			"		1-8OZ	EPA 7.3.3.2, 7.3.4.1, 7.1.2.2 9045, 9095	
X							
6					1-40Z	8240	ROLL-OFF #
6					1-40Z	418.1R	
6					1-8OZ	1311, 6010, 8080, 8150	
6				RECOVERY TRENCH	1-8OZ	EPA 7.3.3.2, 7.3.4.1, 7.1.2.2 9045, 9095	

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Received by: (Sig.)	Relinquished by: (Sig.)	Date: Time:	Received by: (Sig.)	Relinquished by: (Sig.)	Date: Time:
Received by Laboratory by: (Sig.)	Date: 7/7/95 Time: 1000	Remarks			

7 of C

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.01

DATE: 07/21/95

SWLO # : 22824.01
SAMPLE #: GPT\P01RC101
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
REACTIVE CN	0.1	U	mg/kg	/ /	07/10/95	SW 7.3.3.2
REACT. SULFIDE	20	U	mg/kg	/ /	07/10/95	SW 7.3.4.2

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

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MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.01

DATE: 07/21/95

SWLO # : 22824.01
SAMPLE #: GPT\P01RC101
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

MISCELLANEOUS ON A DRY WEIGHT BASIS

PARAMETER	RESULTS**	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
PET. HYDROCARB.	4660	mg/kg	07/11/95	07/11/95	EPA 418.1
pH	6.9	su	/ /	07/10/95	SW 9045

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

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MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.01

DATE: 07/21/95

SWLO # : 22824.01
SAMPLE #: GPT\P01RC101
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
IGNITABILITY	200	>	deg.F	/ /	07/08/95	SW 1010
PAINT FILTER	1	U	ml	/ /	07/07/95	SW 9095

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

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MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.02

DATE: 07/21/95

SWLO # : 22824.02
SAMPLE #: GPT\P01RC102
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
REACTIVE CN	0.1	U	mg/kg	/ /	07/10/95	SW 7.3.3.2
REACT. SULFIDE	20	U	mg/kg	/ /	07/10/95	SW 7.3.4.2

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.02

DATE: 07/21/95

SWLO # : 22824.02
SAMPLE #: GPT\P01RC102
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

MISCELLANEOUS ON A DRY WEIGHT BASIS

PARAMETER	RESULTS**	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
PET. HYDROCARB.	4220	mg/kg	07/11/95	07/11/95	EPA 418.1
pH	7.11	su	/ /	07/10/95	SW 9045

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.02

DATE: 07/21/95

SWLO # : 22824.02
SAMPLE #: GPT\P01RC102
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
IGNITABILITY	200	>	deg.F	/ /	07/08/95	SW 1010
PAINT FILTER	1	U	ml	/ /	07/07/95	SW 9095

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.03

DATE: 07/21/95

SWLO # : 22824.03
SAMPLE #: GPT\P01RC11D
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
REACTIVE CN	0.1	U	mg/kg	/ /	07/10/95	SW 7.3.3.2
REACT. SULFIDE	20	U	mg/kg	/ /	07/10/95	SW 7.3.4.2

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.03

DATE: 07/21/95

SWLO # : 22824.03
SAMPLE #: GPT\P01RC11D
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

MISCELLANEOUS ON A DRY WEIGHT BASIS

PARAMETER	RESULTS**	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
PET. HYDROCARB.	4370	mg/kg	07/11/95	07/11/95	EPA 418.1
pH	6.67	su	/ /	07/10/95	SW 9045

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.03

DATE: 07/21/95

SWLO # : 22824.03
SAMPLE #: GPT\P01RC11D
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
IGNITABILITY	200	>	deg.F	/ /	07/08/95	SW 1010
PAINT FILTER	1	U	ml	/ /	07/07/95	SW 9095

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.04

DATE: 07/21/95

SWLO # : 22824.04
SAMPLE #: GPT\P01RC103
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
REACTIVE CN	0.1	U	mg/kg	/ /	07/10/95	SW 7.3.3.2
REACT. SULFIDE	20	U	mg/kg	/ /	07/10/95	SW 7.3.4.2

** RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.04

DATE: 07/21/95

SWLO # : 22824.04
SAMPLE #: GPT\P01RC103
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

MISCELLANEOUS ON A DRY WEIGHT BASIS

PARAMETER	RESULTS**	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
PET. HYDROCARB.	3370	mg/kg	07/11/95	07/11/95	EPA 418.1
pH	6.58	su	/ /	07/10/95	SW 9045

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.04

DATE: 07/21/95

SWLO # : 22824.04
SAMPLE #: GPT\P01RC103
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
IGNITABILITY	200	>	deg.F	/ /	07/08/95	SW 1010
PAINT FILTER	1	U	ml	/ /	07/07/95	SW 9095

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.05

DATE: 07/21/95

SWLO # : 22824.05
SAMPLE #: GPT\P01RC104
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
REACTIVE CN	0.1	U	mg/kg	/ /	07/10/95	SW 7.3.3.2
REACT. SULFIDE	20	U	mg/kg	/ /	07/10/95	SW 7.3.4.2

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

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MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.05

DATE: 07/21/95

SWLO # : 22824.05
SAMPLE #: GPT\P01RC104
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

MISCELLANEOUS ON A DRY WEIGHT BASIS

PARAMETER	RESULTS**	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
PET. HYDROCARB.	6290	mg/kg	07/11/95	07/11/95	EPA 418.1
pH	5.47	su	/ /	07/10/95	SW 9045

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

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MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.05

DATE: 07/21/95

SWLO # : 22824.05
SAMPLE #: GPT\P01RC104
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
IGNITABILITY	200	>	deg.F	/ /	07/08/95	SW 1010
PAINT FILTER	1	U	ml	/ /	07/07/95	SW 9095

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

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MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.06

DATE: 07/21/95

SWLO # : 22824.06
SAMPLE #: GPT\P01RC105
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
REACTIVE CN	0.1	U	mg/kg	/ /	07/10/95	SW 7.3.3.2
REACT. SULFIDE	20	U	mg/kg	/ /	07/10/95	SW 7.3.4.2

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

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MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.06

DATE: 07/21/95

SWLO # : 22824.06
SAMPLE #: GPT\P01RC105
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

MISCELLANEOUS ON A DRY WEIGHT BASIS

PARAMETER	RESULTS**	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
PET. HYDROCARB.	7570	mg/kg	07/11/95	07/11/95	EPA 418.1
pH	7.4	su	/ /	07/10/95	SW 9045

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

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MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.06

DATE: 07/21/95

SWLO # : 22824.06
SAMPLE #: GPT\P01RC105
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
IGNITABILITY	200	>	deg.F	/ /	07/08/95	SW 1010
PAINT FILTER	1	U	ml	/ /	07/07/95	SW 9095

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

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MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.07

DATE: 07/21/95

SWLO # : 22824.07
SAMPLE #: GPT\P01RC106
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
REACTIVE CN	0.1	U	mg/kg	/ /	07/10/95	SW 7.3.3.2
REACT. SULFIDE	20	U	mg/kg	/ /	07/10/95	SW 7.3.4.2

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.07

DATE: 07/21/95

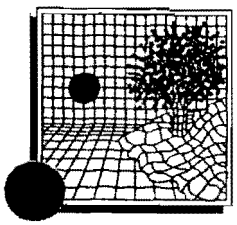
SWLO # : 22824.07
SAMPLE #: GPT\P01RC106
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

MISCELLANEOUS ON A DRY WEIGHT BASIS

PARAMETER	RESULTS**	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
PET. HYDROCARB.	6760	mg/kg	07/11/95	07/11/95	EPA 418.1
pH	6.74	su	/ /	07/10/95	SW 9045

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

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MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.07

DATE: 07/21/95

SWLO # : 22824.07
SAMPLE #: GPT\P01RC106
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
IGNITABILITY	200	>	deg.F	/ /	07/08/95	SW 1010
PAINT FILTER	1	U	ml	/ /	07/07/95	SW 9095

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.08

DATE: 07/21/95

SWLO # : 22824.08
SAMPLE #: GPT\P01RC107
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
REACTIVE CN	0.1	U	mg/kg	/ /	07/10/95	SW 7.3.3.2
REACT. SULFIDE	20	U	mg/kg	/ /	07/10/95	SW 7.3.4.2

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.08

DATE: 07/21/95

SWLO # : 22824.08
SAMPLE #: GPT\P01RC107
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

MISCELLANEOUS ON A DRY WEIGHT BASIS

PARAMETER	RESULTS**	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
PET. HYDROCARB.	2540	mg/kg	07/11/95	07/11/95	EPA 418.1
pH	7.8	su	/ /	07/10/95	SW 9045

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.08

DATE: 07/21/95

SWLO # : 22824.08
SAMPLE #: GPT\P01RC107
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
IGNITABILITY	200	>	deg.F	/ /	07/08/95	SW 1010
PAINT FILTER	1	U	ml	/ /	07/07/95	SW 9095

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

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MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.09

DATE: 07/21/95

SWLO # : 22824.09
SAMPLE #: GPT\P01RC108
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
REACTIVE CN	0.1	U	mg/kg	/ /	07/10/95	SW 7.3.3.2
REACT. SULFIDE	20	U	mg/kg	/ /	07/10/95	SW 7.3.4.2

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.09

DATE: 07/21/95

SWLO # : 22824.09
SAMPLE #: GPT\P01RC108
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

MISCELLANEOUS ON A DRY WEIGHT BASIS

PARAMETER	RESULTS**	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
PET. HYDROCARB.	1830	mg/kg	07/11/95	07/11/95	EPA 418.1
pH	5.82	su	/ /	07/10/95	SW 9045

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

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SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.09

DATE: 07/21/95

SWLO # : 22824.09
SAMPLE #: GPT\P01RC108
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
IGNITABILITY	200	>	deg.F	/ /	07/08/95	SW 1010
PAINT FILTER	1	U	ml	/ /	07/07/95	SW 9095

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.10

DATE: 07/21/95

SWLO # : 22824.10
SAMPLE #: GPT\P01RC109
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
REACTIVE CN	0.1	U	mg/kg	/ /	07/10/95	SW 7.3.3.2
REACT. SULFIDE	20	U	mg/kg	/ /	07/10/95	SW 7.3.4.2

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.10

DATE: 07/21/95

SWLO # : 22824.10
SAMPLE #: GPT\P01RC109
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

MISCELLANEOUS ON A DRY WEIGHT BASIS

PARAMETER	RESULTS**	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
PET. HYDROCARB.	11000	mg/kg	07/11/95	07/11/95	EPA 418.1
pH	6.27	su	/ /	07/10/95	SW 9045

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

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MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.10

DATE: 07/21/95

SWLO # : 22824.10
SAMPLE #: GPT\P01RC109
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
IGNITABILITY	200	>	deg.F	/ /	07/08/95	SW 1010
PAINT FILTER	1	U	ml	/ /	07/07/95	SW 9095

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.11

DATE: 07/21/95

SWLO # : 22824.11
SAMPLE #: GPT\P01RC110
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
REACTIVE CN	0.1	U	mg/kg	/ /	07/10/95	SW 7.3.3.2
REACT. SULFIDE	20	U	mg/kg	/ /	07/10/95	SW 7.3.4.2

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.11

DATE: 07/21/95

SWLO # : 22824.11
SAMPLE #: GPT\P01RC110
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

MISCELLANEOUS ON A DRY WEIGHT BASIS

PARAMETER	RESULTS**	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
PET. HYDROCARB.	3880	mg/kg	07/11/95	07/11/95	EPA 418.1
pH	5.78	su	/ /	07/10/95	SW 9045

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

MORRISON KNUDSEN CORPORATION
SIMMS AVENUE
CBC GULFPORT, MS 39501
Attn: DAN FULLER

REPORT: 22824.11

DATE: 07/21/95

SWLO # : 22824.11
SAMPLE #: GPT\P01RC110
SAMPLE MATRIX : SOIL
PROJECT : NCBC GULFPORT
LOCATION:

DEPTH FROM : 0.00
DEPTH TO : 0.00
DATE SAMPLED : 07/06/95

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	RESULTS**		UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
IGNITABILITY	200	>	deg.F	/ /	07/08/95	SW 1010
PAINT FILTER	1	U	ml	/ /	07/07/95	SW 9095

**RESULTS REPORTED TO A MAXIMUM OF 3 SIGNIFICANT FIGURES

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

GENERAL CHEMISTRY
INORGANICS QUALITY CONTROL DATA SHEET

MATRIX **SOIL** **LCS/LCSD**

EPISODE 22824
CLIENT MORRISON - KNUDSEN

PARAMETER	TEST CODE	UNITS	METHOD BLANK AMT. FOUND	METHOD BLANK DET. LIMIT	LCS KNOWN CONC.	LCS AMT. FOUND	LCS % REC	%REC LIMITS		LCS FLAG	LCS DUPLICATE AMT. FOUND	LCS DUPLICATE %REC.	LCS DUPLICATE FLAG	RPD RPD	RPD LIMIT	RPD FLAG	BATCHID	DATE ANALYZED	ANA-LYST INI.
Reactive Cyanide	IN125	mg/kg	<0.10	0.1000													9507101251	10-Jul-95	LM
Reactive Sulfide	IN305	mg/kg	<20.0	20.0000	646.0	651.2	101	80	120		672	104		3.1	20		9507103051	10-Jul-95	DSF

NARRATIVE:

22824 TJJ
/GLCSS REV 4 1
13-Jul-95

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

GENERAL CHEMISTRY
INORGANICS QUALITY CONTROL DATA SHEET

MATRIX **SOIL** **LABORATORY CONTROL SAMPLE**

EPISODE 22824
CLIENT MORRISON - KNUDSEN

PARAMETER	TEST CODE	UNITS	STANDARD READING	LCS READING	% DIFF.	LIMIT	FLAG	BATCHID	DATE ANALYZED	ANA-LYST
pH	IN220	su	7	7.03	0.4	1		9507102201	10-Jul-95	JSE

NARRATIVE:

22824 TJJ
/GSCOND\PH REV 3.1
13-Jul-95

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

GENERAL CHEMISTRY
INORGANICS QUALITY CONTROL DATA SHEET

MATRIX **SOIL** **MS/MSD**

EPISODE 22824
CLIENT MORRISON-KNUDSEN ENGINEERING COMPANY

SAMPLE # 22824.02
SPIKE # 22824.02
DUPLICATE # 22824.02

PARAMETER	TEST CODE	UNITS	METHOD BLANK		MATRIX SPIKE							MS DUPLICATE			RPD			BATCHID	DATE	ANA-LYST
			AMT. FOUND	DET. LIMIT	SAMPLE CONC.	KNOWN CONC.	AMT. FOUND	% REC	%REC LIMITS		FLAG	AMT. FOUND	%REC.	FLAG	RPD	LIMIT	FLAG		ANALYZED	INI.
TPH	IN210	mg/kg	<10.0	10.0	<10.0	667	622	93	46	142		631	95		1.4	20		S07109501	11-JULY-95	JDH

NARRATIVE:

22824 TJJ
/GMSDS REV 3 1
12-Jul-95

APPENDIX E
WASTE MANIFESTS

7-Aug-95

Pecan Grove Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571

To Whom It May Concern:

RE: Manifest for Shipments Provided by Gulf South Systems, Inc. of TPH Soil from the Naval Construction Battalion Center, Site 6 to Pecan Grove Landfill.

Please be advised that the following manifests for the above shipments contained the wrong profile number. The correct profile number is 052934. Manifests containing the incorrect number are:

18535 thru 18543
18561 thru 18563
18591
18601 thru 18603

GSS, Inc. any inconvience this error may have caused and we hope this letter is satifactory.

If you have any questions or if you require andditional information, please contact this writer at (800) 233-5044.

Sincerely,

George T. Butler

George T. Butler
Project Manager.

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

1995

A Waste Management Company

NON-HAZARDOUS MANIFEST

19590

GENERATOR

Generator Naval Const. Battalion Center I.D. # MS 4170022626

Address 5200 CBC 2nd ST. Shipping Location NCBC

Gulfport, MS 39501-5001 Address SITE 6

Phone (601) 871-2485 Phone (601) 863-1915

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TPH SOIL	055293	19.96	TON	ROLL OFF

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

Generator Authorized Agent Name (Print) | Signature | Delivery Date 8/7/95

TRANSPORTER

Transporter Name GSS, Inc.

Address 19461 French Town Rd

Greenwell Springs LA 70739

Driver Name (Print) LLOYD A. LOWE'S

Truck Number 109

Truck Type Roll Off

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

Driver Signature 8/7/95 Shipment Date

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

Driver Signature 8/7/95 Delivery Date

DESTINATION

Site Name Pecan Grove Landfill Phone Number (601) 255-5553

Address

Disposal Locations: Cell _____ Grid _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print) | Signature | Receipt Date

WHITE - ORIGINAL YELLOW - DIVISION PINK - GENERATOR GOLD - TRANSPORTER

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

19 94

A Waste Management Company

NON-HAZARDOUS MANIFEST

18535

GENERATOR

Generator NAVAL CONSTRUCTION BATTALION CENTER I.D. # MS 4170022626

Address 5100 CBC 2nd STREET

GULFPORT, MS 39501-5001

Phone (601) 871-4485

Shipping Location NCBC

Address SITE 6

Phone (601) 863-1895

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TPH SOIL	05-2938	12.95	TONS	ROLL-OFF

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

Kathy W. Boswell — Generator Authorized Agent Name (Print)

[signature] — Signature

8/1/94 — Delivery Date

TRANSPORTER

Transporter Name G.S.S., INC

Address 14461 FRENCHTOWN RD

GREENWELL SPRINGS, LA 70739

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

[signature] 8/1/94

Driver Signature — Shipment Date

Driver Name (Print) Larry Richard

Truck Number 152

Truck Type Roll-off

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

Driver Signature — Delivery Date

DESTINATION

Site Name PECAN GROVE LANDFILL

Phone Number (601) 255-5553

Address

Disposal Locations: Cell _____ Grid _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print) — Signature — Receipt Date

WHITE - ORIGINAL YELLOW - DIVISION PINK - GENERATOR GOLD - TRANSPORTER

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

A Waste Management Company

19[illegible]

NON-HAZARDOUS MANIFEST

3.0530

GENERATOR

Generator NAVAL CONST BATTALION CENTER I.D. # MS 5170002626
Address 5100 CBC 2nd STREET Shipping Location MCHS
GULFPORT, MS 39501-5001 Address ITEC
Phone (601) 871-2485 Phone (601) 863-1895

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TPH SOIL	052938	17.71	TONS	ROLL-OFF

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

CAPT. W. BROWN [signature] 8/7/96
Generator Authorized Agent Name (Print) Signature Delivery Date

TRANSPORTER

Transporter Name G S S, INC
Address 14461 ENFINGER RD
CENTERVILLE, LA 70721

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

[signature] 8/7/96
Driver Signature Shipment Date

Driver Name (Print) Ricky Causey
Truck Number 164
Truck Type ROLL-OFF

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

Driver Signature Delivery Date

DESTINATION

Site Name PECAN GROVE LANDFILL Phone Number (601) 255-5553
Address

Disposal Locations: Cell _____ Grid _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print) Signature Receipt Date

WHITE - ORIGINAL YELLOW - DRIVER PINK - GENERATOR GOLD - TRANSPORTER

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

19[illegible]

A Waste Management Company

NON-HAZARDOUS MANIFEST

13537

GENERATOR

Generator NAVAL CONST BATTALION CENTER I.D. # MS 2170022626

Address 5100 ABC 2nd STREET Shipping Location [illegible]

GULFPORT, MS 39501-5001 Address [illegible]

Phone (601) 871-2455 Phone (601) 863-1205

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TPH SOIL	552138	18.51	TON	ROLL OFF

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

[illegible] W. Broom — Generator Authorized Agent Name (Print)

[illegible] — Signature

8/2/95 — Delivery Date

TRANSPORTER

Transporter Name GSS, INC.

Address 14461 FRENCHTOWN RD

GREENWELL SPRINGS, LA 70739

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

[illegible] 8-7-95

Driver Signature — Shipment Date

Driver Name (Print) CALVIN HILLIARD

Truck Number 132

Truck Type ROLL-OFF

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

Driver Signature — Delivery Date

DESTINATION

Site Name PECAN GROVE LANDFILL Phone Number (601) 255-5553

Address

Disposal Locations: Cell _____ Grid _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print) — Signature — Receipt Date

WHITE - ORIGINAL YELLOW - DIVISION PINK - GENERATOR GOLD - TRANSPORTER

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

19 95

A Waste Management Company

NON-HAZARDOUS MANIFEST

10538

GENERATOR

Generator NAVAL CONST. BATTALION CENTER I.D. # MS 2170O - 27626

Address 5400 CBC 2nd STREET Shipping Location NCBC

Gulfport MS 39501-5001 Address SITE 6

Phone (601) 871-2485 Phone (601) 863-1895

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TPH SOIL	052938	12.89	TON	ROLL OFF

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

Carey W Broom — Signature — 8/7/95

Generator Authorized Agent Name (Print) — Signature — Delivery Date

TRANSPORTER

Transporter Name GSS, INC

Address 14461 FRENCHTOWN RD.

Greenwell Springs, LA 70739

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

Marshall F Bark 8/7/95

Driver Signature — Shipment Date

Driver Name (Print) Marshall Barber

Truck Number 176

Truck Type Roll off

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

Marshall F Bark

Driver Signature — Delivery Date

DESTINATION

Site Name Pecan Grove Landfill Phone Number (601) 255-5553

Address

Disposal Locations: Cell _____ Grid _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print) — Signature — Receipt Date

WHITE - ORIGINAL YELLOW - DIVISION PINK - GENERATOR GOLD - TRANSPORTER

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

19 95

A Waste Management Company

NON-HAZARDOUS MANIFEST

13539

GENERATOR

Generator NAVAL Const BATTalion Center I.D. # MS 2100 22126

Address 5200 CBC 2nd STREET

Gulfport, MS. 39501-5201

Phone 601 871 2485

Shipping Location NCBC

Address Site 6

Phone 601 - 863 - 1895

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TPH Soil	052738	19.15	TON	Roll off

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

R. L. (Lou) Broom — Generator Authorized Agent Name (Print)

Signature

8/7/95 — Delivery Date

TRANSPORTER

Transporter Name Gess INC

Address 19461 Floral Town RD

Greenwell Springs, LA. 70739

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

Driver Signature — 8/7/95 Shipment Date

Driver Name (Print) L.C. Kelly

Truck Number 1-16

Truck Type Roll-off

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

Driver Signature — Delivery Date

DESTINATION

Site Name Pecan Grove Land Fill

Phone Number 601-255-5553

Address

Disposal Locations: Cell _____ Grid _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print)

Signature

Receipt Date

WHITE - ORIGINAL YELLOW - DIVISION PINK - GENERATOR GOLD - TRANSPORTER

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

1995

A Waste Management Company

NON-HAZARDOUS MANIFEST

1540

GENERATOR

Generator NAVAL CONST. BATTALION CENTER I.D. # MS 2170022626

Address 3200 CBC 2nd STREET Shipping Location NCBC

Gulfport MS 39501-5001 Address SITE 6

Phone (601) 871-2485 Phone (601) 863-1895

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TPH SOIL	052938	16.17	TON	ROLL OFF

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

Gary W Brown — Generator Authorized Agent Name (Print)

Signature — 8/7/95 Delivery Date

TRANSPORTER

Transporter Name GSC, INC

Address 14461 Brookstown Rd,

Greenwell Springs, La 70739

Driver Name (Print) James Wiggins

Truck Number 154

Truck Type Roll off

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

Driver Signature — 8/7/95 Shipment Date

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

Driver Signature — Delivery Date

DESTINATION

Site Name Pecan Grove Landfill Phone Number (601) 255-5553

Address

Disposal Locations: Cell _____ Grid _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print) — Signature — Receipt Date

WHITE - ORIGINAL YELLOW - DIVISION PINK - GENERATOR GOLD - TRANSPORTER

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

19____

A Waste Management Company

NON-HAZARDOUS MANIFEST

19541

GENERATOR

Generator Naval Const Battalion Center
Address 5200 CBC 2nd Street
Gulf Port Ms 39501-5001
Phone 601 871 2485

I.D. # MS 2170022626
Shipping Location NCBC
Address Site C
Phone 601-863-1895

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TPH Soil	052938	17.03	Ton	RB/OP

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

Generator Authorized Agent Name (Print) | Signature | Delivery Date 8/7/95

TRANSPORTER

Transporter Name GSS INC
Address 14461 Frank Town RD
Crecxwell Springs, LA. 70429

Driver Name (Print) Curtis Reed
Truck Number 14
Truck Type 18W OP

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

Curtis Reed 8-7-95
Driver Signature | Shipment Date

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

Driver Signature | Delivery Date

DESTINATION

Site Name Pecan Grove LANDFILL
Phone Number 601 255-5553

Address

Disposal Locations: Cell _____ Grid _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print) | Signature | Receipt Date

WHITE - ORIGINAL YELLOW - DIVISION PINK - GENERATOR GOLD - TRANSPORTER

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

A Waste Management Company

19____

NON-HAZARDOUS MANIFEST

12542

GENERATOR

Generator NAVAL CONST BATTALION CENTER
Address 5300 CBC 2nd Street
Gulfport, Ms 39501-5001
Phone 601-871-2485

I.D. # MS 21700 28625
Shipping Location NCBC
Address Site 6
Phone 601 863-1895

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TPH Soil	052938	17.80	TON	Roll OFF

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

[illegible] W Brown — Generator Authorized Agent Name (Print)
[signature] — Signature
8/7/25 — Delivery Date

TRANSPORTER

Transporter Name GSS INC
Address 14461 Freedtown RD
Covington Springs LA 70739

Driver Name (Print) Ronnie Hall
Truck Number 148
Truck Type Roll Off

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

[signature] 8-7-25
Driver Signature — Shipment Date

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

Driver Signature — Delivery Date

DESTINATION

Site Name Pecan Cove Landfill
Phone Number 601-255-5553

Address

Disposal Locations: Cell _____ Grid _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print) — Signature — Receipt Date

WHITE - ORIGINAL YELLOW - DIVISION PINK - GENERATOR GOLD - TRANSPORTER

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

19 95

A Waste Management Company

18543

NON-HAZARDOUS MANIFEST

GENERATOR

Generator NAVAL CONST. BATTALION CENTER I.D. # MS 21706 22636

Address 5200 1 No 2nd STREET Shipping Location NCBC

Gulfport, MS 39501-5001 Address SITE 6

Phone (601) 871-2485 Phone (601) 863-1895

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TPH SOIL	152938	16.55	TON	ROLL-OFF

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

GARY W BROWN — Generator Authorized Agent Name (Print)

[signature] — Signature

8/7/95 — Delivery Date

TRANSPORTER

Transporter Name GSS, INC

Address 11441 Frenchtown Rd.

Greenwell Springs, LA 70739

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

[signature] — Driver Signature

8/7/95 — Shipment Date

Driver Name (Print) Billy Hill

Truck Number 150

Truck Type Roll-off

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

Driver Signature

Delivery Date

DESTINATION

Site Name Pecan Grove Landfill Phone Number (601) 255-5553

Address

Disposal Locations: Cell ______ Grid ______ Level ______

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print) Signature Receipt Date

WHITE - ORIGINAL YELLOW - DIVISION PINK - GENERATOR GOLD - TRANSPORTER

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

19 95

A Waste Management Company

NON-HAZARDOUS MANIFEST

18561

GENERATOR

Generator NAVAL CONSTRUCTION BATTALION CENTER I.D. # MS 2170022626

Address 3200 CBC SECOND ST. Shipping Location NCBC GULFPORT

GULFPORT, MS 39501-5001 Address SITE 6

Phone (601) 871-2465 Phone (601) 863-1895

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TPH SOIL	05293A	17.16	TONS	ROLL-OFF

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

GARY L. BROWN — Generator Authorized Agent Name (Print)

Gary L Brown — Signature

8/7/95 — Delivery Date

TRANSPORTER

Transporter Name GSS, INC

Address 14421 FAIRGROUND RD.

GREENWELL SPRINGS, LA

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

Driver Signature

8/7/95 — Shipment Date

Driver Name (Print) PATRICK RIVERS

Truck Number 144

Truck Type ROLL OFF

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

Driver Signature — Delivery Date

DESTINATION

Site Name PECAN GROVE LANDFILL Phone Number (601) 255-5553

Address

Disposal Locations: Cell _____ Grid _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print) — Signature — Receipt Date

WHITE - ORIGINAL YELLOW - DIVISION PINK - GENERATOR GOLD - TRANSPORTER

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

19 95

A Waste Management Company

NON-HAZARDOUS MANIFEST

18552

GENERATOR

Generator NAVAL CONSTRUCTION BATTALION CENTER I.D. # MS 2170022626

Address 4200 CBC 2nd STREET

GULFPORT, MS 39501-5001

Phone (601) 871-2485

Shipping Location SITE 6 NCBC

Address

Phone (601) 863-1895

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TPH SOIL	052928	15.48	TONS	ROLL-OFF

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

GARY W. BROOM — Generator Authorized Agent Name (Print)

Signature — 8/7/95 Delivery Date

TRANSPORTER

Transporter Name GSSC, INC

Address 14461 FRENCHTOWN RD

BATON ROUGE, LA. 70739

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

Driver Signature — 8/7/95 Shipment Date

Driver Name (Print) KARHKE GRAY

Truck Number ~~143~~ 140

Truck Type

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

Driver Signature — Delivery Date

DESTINATION

Site Name PECAN GROVE LANDFILL

Phone Number (601) 255-5553

Address

Disposal Locations: Cell _____ Grid _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print) — Signature — Receipt Date

WHITE - ORIGINAL YELLOW - DIVISION PINK - GENERATOR GOLD - TRANSPORTER

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

19 95

A Waste Management Company

NON-HAZARDOUS MANIFEST

33563

GENERATOR

Generator NAVAL CONSTRUCTION BATTALION CENTER I.D. # MS 0170 022626

Address 5200 CBC 2nd STREET

GULFPORT, MS 39501-5001

Phone (601) 871-2425

Shipping Location NCBC

Address SITE 6

Phone (601) 863-1895

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TPH SOIL	052938	18.94	TONS	ROLL-OFF

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

GARY W. BROOM — Generator Authorized Agent Name (Print)

Signature — 8/7/95 Delivery Date

TRANSPORTER

Transporter Name GSS, INC.

Address 14461 FRENCHTOWN RD

GREENWELL SPRINGS, LA 70739

Driver Name (Print) MICHAEL FRANKLIN

Truck Number 142

Truck Type ROLL-OFF

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

Driver Signature — 8/7/95 Shipment Date

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

Driver Signature — Delivery Date

DESTINATION

Site Name PECAN GROVE LANDFILL

Phone Number (601) 255-5553

Address

Disposal Locations: Cell _____ Grid _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print) — Signature — Receipt Date

WHITE - ORIGINAL YELLOW - DIVISION PINK - GENERATOR GOLD - TRANSPORTER

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

19 15

A Waste Management Company

NON-HAZARDOUS MANIFEST

13591

GENERATOR

Generator Naval Const. Battalion Center I.D. # MS 2170022626

Address 5200 CBC 2nd ST. Shipping Location NCBC

Gulfport, MS 39501-5001 Address Site 6

Phone (601) 871-2485 Phone (601) 863-1896

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TPH Soil	052938	16.17	TON	Roll Off

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

Generator Authorized Agent Name (Print) | Signature | 2/7/25 Delivery Date

TRANSPORTER

Transporter Name SSS, Inc.

Address 14461 Frenchtown Rd.

Greenwell Springs, LA 70739

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

Driver Signature | 2/7/25 Shipment Date

Driver Name (Print) Randy Lorraw

Truck Number 126

Truck Type Roll off

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

Driver Signature | Delivery Date

DESTINATION

Site Name Pecan Grove Landfill Phone Number (601) 255-5553

Address

Disposal Locations: Cell _____ Grid _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print) | Signature | Receipt Date

WHITE - ORIGINAL YELLOW - DIVISION PINK - GENERATOR GOLD - TRANSPORTER

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

1995

A Waste Management Company

NON-HAZARDOUS MANIFEST

18601

GENERATOR

Generator Naval Const. Battalion Center I.D. # MS 2170027626

Address 5200 CBC 2nd St. Shipping Location NCBC

Gulfport, MS 39501-5001 Address Site 6

Phone (601) 871-2485 Phone (601) 863-1895

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TI'H SOIL	052938	16.52	TON	INCL OFF

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

Cindy M Barron — 8/7/95

Generator Authorized Agent Name (Print) | Signature | Delivery Date

TRANSPORTER

Transporter Name CCS, Inc. Driver Name (Print) Woodell Fisher

Address 1461 Fernbrook Rd. Truck Number 162

Greenwell Springs La 70739 Truck Type Roll off

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

Woodell Fisher 8/7/95

Driver Signature | Shipment Date

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

Driver Signature | Delivery Date

DESTINATION

Site Name Pecan Grove Landfill Phone Number (601) 255-5553

Address

Disposal Locations: Cell _____ Grid _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print) | Signature | Receipt Date

WHITE - ORIGINAL YELLOW - DIVISION PINK - GENERATOR GOLD - TRANSPORTER

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

1995

A Waste Management Company

NON-HAZARDOUS MANIFEST

18602

GENERATOR

Generator Naval Const. Battalion Center I.D. # MS2170022626

Address 5200 CBC 2nd St. Shipping Location NCBC

Gulfport, MS 39501-5001 Address Site 6

Phone (601) 871-2485 Phone (601) 863-1895

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TPH SOIL	05-938	13.47	TON	Roll Off

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

Capt. W. Baker — 8/7/95

Generator Authorized Agent Name (Print) Signature Delivery Date

TRANSPORTER

Transporter Name GSS, Inc. Driver Name (Print) Norman Miller

Address 14411 Fairchilds Rd. Truck Number 118

Crosswell Springs, La 70737 Truck Type Roll off

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

Driver Signature 8/7/95 Shipment Date

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

Driver Signature Delivery Date

DESTINATION

Site Name Pecan Grove Landfill Phone Number (601) 255-5553

Address

Disposal Locations: Cell _____ Grid _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print) Signature Receipt Date

WHITE - ORIGINAL YELLOW - DIVISION PINK - GENERATOR GOLD - TRANSPORTER

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

19~~95~~

A Waste Management Company

NON-HAZARDOUS MANIFEST

18603

GENERATOR

Generator NAVAL CONST. BATTALION CENTER I.D. # MS 2170C - 22626

Address 3700 CBC 2nd STREET Shipping Location NCBC

Gulfport, MS 39501-5001 Address SITE 6

Phone (601) 871-2485 Phone (601) 863-1895

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TPH Soil	052938	20.39	TN	ROLL OFF

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

Kirby W Brown 8/7/95

Generator Authorized Agent Name (Print) Signature Delivery Date

TRANSPORTER

Transporter Name GCC, INC Driver Name (Print) Gary Caudill

Address 14461 Frenchtown Rd. Truck Number 134

Greenwell Springs, LA 70739 Truck Type Roll off

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

Gary Caudill 8/7/95

Driver Signature Shipment Date

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

Driver Signature Delivery Date

DESTINATION

Site Name Pecan Grove Landfill Phone Number (601) 255-5553

Address

Disposal Locations: Cell _____ Grid _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print) Signature Receipt Date

WHITE - ORIGINAL YELLOW - DIVISION PINK - GENERATOR GOLD - TRANSPORTER

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

19____

A Waste Management Company

NON-HAZARDOUS MANIFEST

18004

GENERATOR

Generator NAVAL Const Battalion Center
Address 5300 CBC 2nd ST
Gulfport, MS 39501-5001
Phone 601 871-2485

I.D. # MS 2170022626
Shipping Location NCBC
Address Site 6
Phone 601 863 1895

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TPH Soil	052934	1322	TON	Roll OFF

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

Generator Authorized Agent Name (Print) | Signature | Delivery Date 8/8/95

TRANSPORTER

Transporter Name GSS INC
Address 14461 Fourchtown RD
Clinton Springs LA

Driver Name (Print) NORMAN WHITE
Truck Number 119
Truck Type Roll Off

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

Driver Signature | Shipment Date 8/8/95

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

Driver Signature | Delivery Date 8/9/95

DESTINATION

Site Name Pecan Grove Landfill
Phone Number 601-255-5553

Address

Disposal Locations: Cell _____ Grid _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print) | Signature | Receipt Date

WHITE - ORIGINAL YELLOW - DIVISION PINK - GENERATOR GOLD - TRANSPORTER

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

19____

A Waste Management Company

NON-HAZARDOUS MANIFEST

.8505

GENERATOR

Generator Naval Constr. Battalion Center I.D. # MS 1700 - 22626

Address 5.00 CBC 2nd ST

Gulfport, MS 39501 - 5001

Phone (601) 871 - 2485

Shipping Location NCBC

Address SITE 6

Phone (601) 863 - 1575

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TPH SOIL	052934 ~~052938~~	18.27	TON	Roll off

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

Generator Authorized Agent Name (Print) | Signature | Delivery Date 8/8/95

TRANSPORTER

Transporter Name G S S, Inc

Address 14461 Frenchtown Rd.

Greenwell Springs, La 70739

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

[illegible] 8/8/95

Driver Signature | Shipment Date

Driver Name (Print) James Wilson

Truck Number 391

Truck Type Roll off

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

Driver Signature | Delivery Date

DESTINATION

Site Name Pecan Grove Landfill

Phone Number (601) 255-5553

Address

Disposal Locations: Cell _____ Grid _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print) | Signature | Receipt Date

WHITE - ORIGINAL YELLOW - DIVISION PINK - GENERATOR GOLD - TRANSPORTER

Pecan Grove Sanitary Landfill and Recycling Center
9685 Firetower Road
Pass Christian, MS 39571
(601) 255-5553

19124

A Waste Management Company

NON-HAZARDOUS MANIFEST

18606

GENERATOR

Generator Naval Const. Battalion Center I.D. # MS 2170 - 22626

Address 5000 Old 2nd ST. Shipping Location Naval

Gulfport, MS 39501-5001 Address Site 6

Phone (601) 871-2425 Phone (601) 863-1875

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
TPH Soil	55934 55935	1323	Ton	Roll Off

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

Generator Authorized Agent Name (Print) | Signature | Delivery Date 8/8/25

TRANSPORTER

Transporter Name GSS, Inc

Address 14461 Frenchtown Rd

Greenwell Springs, LA 70739

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

Driver Signature | Shipment Date 8/8/25

Driver Name (Print) Christopher Hall

Truck Number # 40

Truck Type Roll Off

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

Driver Signature | Delivery Date 8-8-25

DESTINATION

Site Name Pecan Grove Landfill Phone Number (601) 255-5553

Address

Disposal Locations: Cell _____ Grid _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized (Print) | Signature | Receipt Date

WHITE - ORIGINAL YELLOW - DIVISION PINK - GENERATOR GOLD - TRANSPORTER